

BOARD OF WATER SUPPLY

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



September 20, 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

AMENDED

NOTICE

The Board of Water Supply, City and County of Honolulu, will hold a Public Hearing and Regular Meeting on Monday, September 26, 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, or submitted online at boardofwatersupply.com/testimony. Testimony is requested by Monday, September 26, 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, September 26, 2022, at noon.
- Videoconference testimony will be accepted through Zoom. To participate please complete the online form at boardofwatersupply.com/testimony. Videoconference registration instructions, as well as access and participant guidelines, will be sent to the contact information listed on the form. It is requested that registration to testify by videoconference be submitted by Friday, September 23, 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. If you wish to testify by telephone, please pre-register by emailing board@hbws.org.
- In-person testimony will be accepted during the meeting at the Board of Water Supply. If you wish to testify at the meeting, please pre-register by emailing board@hbws.org. In-person testifiers should check-in at the Lobby of the Public Service Building, 630 S. Beretania St. Honolulu, HI 96843. On-site registration to testify in-person will be available. Testifiers will be brought into the Board Room or may choose to present their testimony via videoconference technology in the Lobby.

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

MATERIALS AVAILABLE FOR INSPECTION

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VIEWING THE MEETING

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SPECIAL REQUESTS AND ACCOMMODATIONS

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

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

The agenda for the September 26, 2022, Public Hearing and Regular Meeting of the Board of Water Supply is as follows:

PUBLIC HEARING

1. Proposed Amendment to the Fiscal Year 2022-2023 Capital Improvement Program Budget of the Board of Water Supply

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Regular Meeting Held on August 26 22, 2022
2. Adoption of Resolution No. 950, 2022, Amending the 2022-2023 Capital Improvement Program Budget and Appropriating Funds Therefor and Revision of the 2022-2023 Capital Improvement Program Budget – Amendment No. 1
3. Adoption of Resolution No. 951, 2022, Resolution of Appreciation for Deputy Manager and Chief Engineer Ellen E. Kitamura
4. Adoption of Resolution No. 952, 2022, Acceptance of Gift to the Board of Water Supply from the Hawaii Community Foundation to Attend the US Water Alliance One Water Summit 2022 Conference
5. Adoption of Resolution No. 953, 2022, Acceptance of Gift to the Board of Water Supply from the Hawaii Community Foundation to Attend the Fresh Water Council Retreat

ITEMS FOR INFORMATION

1. Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination
2. Fiscal Year 2022 Claims Management Summary
3. Status Update of Groundwater Levels at All Index Stations
4. Water Main Repair Report for August 2022

EXECUTIVE SESSION

1. Approval of the Minutes of the Executive Session Held on July 25, 2022
2. To Consult with the Board's Attorney on Questions and Issues Pertaining to the Board of Water Supply's Proposed Settlement of Claim #21-029, Relating to Property Damages at 320 Poipu Drive, Honolulu, Hawaii Following a 12" Cast Iron Main Break at 320 Poipu Drive, Honolulu, Hawaii on October 8, 2020 [HRS §92-5(a)(4)]

MINUTES

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

September 26, 2022

At 2:01 PM on September 26, 2022, in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, Board Chair Andaya called to order the Public Hearing and Regular Meeting.

Present: Bryan P. Andaya, Chair
Kapua Sproat, Vice Chair via Zoom
Ray C. Soon, Board Member
Max J. Sword, Board Member
Na'alehu Anthony, Board Member via Zoom
Jade T. Butay, Board Member, Ex-Officio via Zoom
Dawn B. Szewczyk., Board Member, Ex- Officio
via Zoom

Also Present: Ernest Lau, Manager and Chief Engineer
Ellen Kitamura, Deputy Manager and Chief
Engineer via Zoom
Jason Takaki, Program Administrator,
Capital Projects Division via Vimeo
Jadine Urasaki, Assistant Program Administrator,
Capital Projects Division via Vimeo
Jennifer Elflein, Program Administrator,
Customer Care Division via Vimeo
Kathleen Elliott-Pahinui, Information Officer,
Communications Office via Zoom
Raelynn Nakabayashi, Executive Assistant I,
Executive Support Office via Zoom
Jason Nikaido, Program Administrator,
Field Operations Division via Zoom
Joseph Cooper, Waterworks Controller,
Finance Division via Vimeo
Michele Thomas, Executive Assistant I,
Human Resources Office via Vimeo
Henderson Nuuhiwa, Program Administrator,
Program Administrator, Information
Technology Division via Zoom
Michael Matsuo, Land Administrator, Land Division
via Vimeo
Erwin Kawata, Program Administrator,
Water Quality Division via Zoom
Barry Usagawa, Program Administrator,
Water Resources Division via Zoom

Kevin Ihu, Program Administrator,
Water System Operations Division
via Vimeo

Kathy Mitchell, Administrative Services Officer
via Vimeo

Deanna Thyssen, Manager Secretary

Joy Cruz-Achiu, Board Secretary

Tracy Burgo, Information Specialist II,
Communications Office

Stella Bernardo, Information Specialist II,
Communications Office via Zoom

Michele Harman, Community Relations Specialist I,
Communications Office via Zoom

Keoni Mattos, Information Specialist II,
Communications Office via Zoom

Others Present:

Jeff Lau, Deputy Corporation Counsel
via Zoom

Jessica Wong, Deputy Corporation Counsel
via Zoom

Chair Bryan Andaya welcomed everyone to the September 26, 2022, Public Hearing and Regular Meeting of the Board of Water Supply (BWS). Chair Andaya announced that a Public Hearing will be held first, followed by the Regular Meeting of the Honolulu Board of Water Supply (BWS). He shared that the Board of Water Supply Public Hearing notice was published in the September 16, 2022, Star Advertiser.

Before beginning the meeting Chair Andaya 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 Public Hearing and Regular Meeting and asked those participating remotely to keep their cameras on during the meeting to comply and meet quorum guidelines. Chair Andaya asked each Board Member to respond verbally and state who is present in the room if participating via Zoom when their names were called. Vice Chair Kapua Sproat, aye and alone at her current location; Board Member Max Sword, aye and in the Board room; Board Member Na'alehu Anthony, aye and alone at his location; Board Member Jade Butay, aye and alone at his location; and 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-Achui, Tracy Burgo, Information Specialist II, Communications Office, the Managers Secretary Deanna Thyssen, and Asahiro Gima, Systems Analyst I, Information Technology Division. Joining via Zoom to monitor public testimony are Keoni Mattos and Wayne Maria, both Information Specialist II, Communications Office. Joining from the City and County Corporation Counsel were Deputy Jeff Lau and Deputy Jessica Wong via Zoom.

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, September 26, 2022, at noon. However, late testimony will be accepted by email, fax, or mail. Videoconference testimony was accepted by registering at boardofwatersupply.com/testimony by Friday, September 23, 2022. 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.

Before proceeding with the September 26, 2022, Board meeting agenda Chair Andaya called upon Ms. Raelynn Nakabayashi, Executive Assistant I, Executive Support Office to note for the record and explain and describe a few non-substantive changes to Resolution No. 949, 2022. He stated that Resolution No. 949, 2022 was approved at the August 22, 2022, Board Meeting, referring to Action Item #7: Amending the Board of Water Supply Special Expendable Fund, Established via Resolution No. 585, 1990, which Accounts for Customer Deposits Collected from the Assessment of Water Systems Facilities Charges and Negotiated Agreements.

Ms. Raelynn Nakabayashi explained that Resolution No. 949, 2022 had a typo in the title which originally noted Resolution No. 555, 1990, which was corrected to reflect the correct resolution number, Resolution No. 585, 1990. In the second paragraph, the acronym RCH was added referring to the Revised Charter of the City and County of Honolulu. Finally, in the last two paragraphs of the resolution, changes were made to indicate Board action

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 949, 2022

Correction in title.

**AMENDING THE BOARD OF WATER SUPPLY SPECIAL EXPENDABLE FUND,
ESTABLISHED VIA RESOLUTION NO. 585, 1990, WHICH ACCOUNTS FOR CUSTOMER
DEPOSITS COLLECTED FROM THE ASSESSMENT OF WATER SYSTEM FACILITIES
CHARGES AND NEGOTIATED AGREEMENTS**

Add "(RCH)"

WHEREAS, Section 7-112 Reserve Funds, of the Revised Charter of the City and County of Honolulu (RCH), provides the Board may provide for the accumulation of funds for the purpose of financing major replacements, or extensions and additions to the water systems; and

WHEREAS, via Resolution No. 585, 1990, attached hereto as Exhibit "A", the Board deemed it advisable and in the best interests of the water customers of the City and County of Honolulu to create and establish a special fund, the Special Expendable Fund, in which customer deposits collected from the assessment of Water System Facilities Charges and negotiated agreements shall be deposited; and

WHEREAS, on April 24, 2006, the Board amended Resolution No. 585, 1990 via Resolution No. 764, 2006, attached hereto as Exhibit "B", to allow for disbursement from the Special Expendable Fund for the payment of debt service and/or the defeasance of outstanding debt related to the construction of water source, storage and transmission facilities; and

WHEREAS, the Board now deems it advisable and in the best interests of its water customers to further amend the purpose and scope of the fund;

BE IT RESOLVED, pursuant to RCH Section 7-112, the second recital of Resolution No. 585, 1990 shall be amended and restated in its entirety as follows:

Indicate "action".

WHEREAS, disbursements from this fund shall be restricted to improvements involving water source, storage, and transmission facilities only, including the acquisition of land therefor and related engineering and design work and all other costs arising under the resulting contracts; and

NOW, THEREFORE, BE IT FINALLY RESOLVED by the Board of Water Supply, City and County of Honolulu, the special fund, known as the "Board of Water Supply Special Expendable Fund", held by the Treasurer of the City and County of Honolulu, is hereby amended.

Insert "finally" into
closing paragraph.

PUBLIC HEARING

Chair Andaya introduced Manager and Chief Engineer Ernest Lau to give a brief overview of the Proposed Amendment to the Fiscal Year 2022-2023 Capital Improvement Program (CIP) Budget of the Board of Water Supply.

Manager Ernest Lau shared that the BWS put together a proposal to amend the Fiscal Year 2022-2023 CIP budget, which began on July 1, 2022, and ends on June 30, 2023. He introduced Ms. Raelynn Nakabayashi, Executive Assistant I, Executive Support Office, to provide the presentation on the proposed amendment to the CIP budget.

Ms. Nakabayashi presented the Proposed Amendment to the Fiscal Year 2022-2023 CIP Budget, highlighting the changes in the CIP budget. The original CIP budget was \$181,109,325 and the proposed amendment would increase the CIP budget to \$184,076,325.

Manager Lau stated that the proposed amendment includes the deferral of some projects to future years so that the BWS has the financial and staff capacity to be able to pursue the projects added with this amendment.

FUND TYPE	ADOPTED	PROPOSED	CHANGE
OPERATING	\$58,351,325	\$51,851,325	(\$6,500,000)
OPERATING SRF ELIGIBLE	\$500,000	\$500,000	-
SPECIAL EXPENDABLE	\$27,250,000	\$33,750,000	\$6,500,000
IMPROVEMENT (BONDS)	\$66,123,000	\$69,090,000	\$2,967,000
EXTRAMURAL	\$28,885,000	\$28,885,000	-
TOTAL	\$181,109,325	\$184,076,325	\$2,967,000

Honolulu Star Advertiser
Friday, September 16, 2022
Notice of Public Hearing

Public
Hearings

Public
Hearings

Public
Hearings

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the BOARD OF WATER SUPPLY (BWS), CITY AND COUNTY OF HONOLULU, will hold a PUBLIC HEARING in the Board Room, Public Service Building, 630 South Beretania Street, on Monday, September 26, 2022, at 2:00 p.m. or soon thereafter, where all interested persons shall be afforded the opportunity of being heard on the adoption of the Proposed Amendment to the Fiscal Year (FY) 2023 Operating and Capital Improvement Program Budgets of the Board of Water Supply, beginning July 1, 2022, and ending June 30, 2023.

Some Board members may be participating in the meeting by interactive conference technology from remote locations. The public may 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 CAN BE SUBMITTED AS FOLLOWS:

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VIEWING THE MEETING

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Persons wishing to present testimony are requested to register by 1:00 p.m. on Friday, September 23, 2022, with Luella Paekukui, (808) 748-5176, by providing your name, phone number, and subject matter of testimony. Testimony is limited to two (2) minutes and shall be presented by the registered speaker only. Any person requiring special assistance may contact Luella Paekukui at (808) 748-5176 no later than September 21, 2022, so that appropriate accommodations can be provided.

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

(SA1385188 9/16/22)

AFFIDAVIT OF PUBLICATION

IN THE MATTER OF
NOTICE OF PUBLIC HEARING

STATE OF HAWAII
City and County of Honolulu

Doc. Date: SEP 16 2022 # Pages: 1
Notary Name: COLLEEN E. SORANAKA First Judicial Circuit
Doc. Description: Affidavit of Publication
Notary Signature: [Signature] Date: SEP 16 2022
Notary Public Seal: COLLEEN E. SORANAKA No. 90-263 STATE OF HAWAII

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

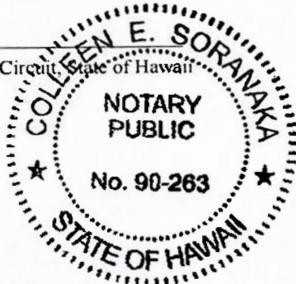
- Honolulu Star-Advertiser 1 times on: 09/16/2022
MidWeek 0 times on:
The Garden Island 0 times on:
Hawaii Tribune-Herald 0 times on:
West Hawaii Today 0 times on:
Other Publications: 0 times on:

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

[Signature] Lisa Sakakida
Subscribed and sworn to before me this 16th day of September A.D. 2022

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

Ad # 0001385188



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BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

(SA1385188 9/16/22)

ICSP NO.:



AMENDMENT TO THE FY 22-23
CAPITAL IMPROVEMENT
PROGRAM BUDGET OF THE
BOARD OF WATER SUPPLY

Raelynn Nakabayashi
September 26, 2022
boardofwatersupply.com

CAPITAL IMPROVEMENT PROGRAM BUDGET FY 2023 AMENDMENT NO. 1

FUND TYPE	ADOPTED	PROPOSED	CHANGE
OPERATING	\$58,351,325	\$51,851,325	(\$6,500,000)
OPERATING SRF ELIGIBLE	\$500,000	\$500,000	-
SPECIAL EXPENDABLE	\$27,250,000	\$33,750,000	\$6,500,000
IMPROVEMENT (BONDS)	\$66,123,000	\$69,090,000	\$2,967,000
EXTRAMURAL	\$28,885,000	\$28,885,000	-
TOTAL	\$181,109,325	\$184,076,325	\$2,967,000



CAPITAL IMPROVEMENT PROGRAM BUDGET FY 2023 AMENDMENT NO. 1

CATEGORY	ADOPTED	PROPOSED	VARIANCE
RESEARCH & DEVELOPMENT	\$19,999,500	\$19,999,500	-
RENEWAL & REPLACEMENT	\$97,970,000	\$100,550,000	\$2,580,000
CAPACITY EXPANSION	\$23,950,000	\$23,950,000	-
CONSTRUCTION COST INDEX	\$17,739,825	\$18,126,825	\$387,000
CONTRACT ADJUSTMENT	\$21,450,000	\$21,450,000	-
TOTAL	\$181,109,325	\$184,076,325	\$2,967,000



CAPITAL IMPROVEMENT PROGRAM BUDGET FY 2023 AMENDMENT NO. 1

PART 1 PROJECTS ADDED

PROJECTS ADDED		PRESENT	PROPOSED	FUND TYPE	CATEGORY
16A	Keolu Hills Water System Improvements, Part II	0	\$8,500,000	IMPROVEMENT	CONSTRUCTION
18A	Kalama Valley Water System Improvements, Part II	0	\$11,200,000	IMPROVEMENT	CONSTRUCTION
19A	Palolo Water System Improvements, Part III	0	\$10,500,000	IMPROVEMENT	CONSTRUCTION
20A	Puiwa Rd. 12-Inch and Dowsett Ave. 8-Inch Mains	0	\$2,000,000	IMPROVEMENT	CONSTRUCTION
21A	Waiomao Homestead Rd. 8-Inch Mains	0	\$1,300,000	IMPROVEMENT	CONSTRUCTION
TOTALS:		0	\$33,500,000		



CAPITAL IMPROVEMENT PROGRAM BUDGET FY 2023 AMENDMENT NO. 1

PART 2 PROJECTS DEFERRED

PROJECTS ADDED		PRESENT	PROPOSED	FUND TYPE	CATEGORY
16	Palolo Water System Improvements, Part IV	\$11,000,000	0	IMPROVEMENT	CONSTRUCTION
18	Barbers Point 215 Water System Improvements	\$1,200,000	0	IMPROVEMENT	CONSTRUCTION
19	Halupa St. 12-Inch Main	\$3,100,000	0	IMPROVEMENT	CONSTRUCTION
20	Kahilina'i Pl and Aiea Heights Dr. Area Water System Improvements	\$4,920,000	0	IMPROVEMENT	CONSTRUCTION
21	Mailili Rd. 20-Inch Mains, Paakea Rd. To Lualualei Homestead Rd.	\$5,700,000	0	IMPROVEMENT	CONSTRUCTION
22	Kakela Dr. and Mohala Way Water System Improvements	\$2,000,000	0	IMPROVEMENT	CONSTRUCTION
31	Nuunanu Reservoir No. 1 Dam Improvements	\$3,000,000	0	IMPROVEMENT	CONSTRUCTION
TOTALS:		\$30,920,000	0		



Improvement Funds Remaining at June 30, 2022	FY2023 Proposed Improvement Funds	Net – New Issuance needed
~49 Million	~69 Million	~\$20 Million

March 14, 2022

Honolulu Board of Water Supply Has Successful Sale of Bonds

HONOLULU – On Tuesday, March 8, the Board of Water Supply (BWS) successfully sold \$135,260,000 of Water System Revenue Bonds. Proceeds from the bonds will be used to finance new projects, conduct repair and maintenance of the water system, and to refinance outstanding debt.

Despite a volatile market, **BWS was able to lock-in an all-in true interest cost of only 3.03% for 30-year tax-exempt debt.** In addition, BWS will realize \$2.7 million of present value savings through a taxable refunding. The overall transaction received more than \$224 million of total orders from a combination of individual retail investors and 27 different institutional accounts.

Fitch Ratings and S&P respectively assigned ratings of “AA+”, Positive outlook and “AAA”, Stable outlook. This is the third year BWS has received the AAA rating from S&P. This is the second year the BWS has received an AA+, positive outlook from Fitch.



CAPITAL IMPROVEMENT PROGRAM BUDGET FY 2023 AMENDMENT NO. 1

PART 3 COMMENSURATE ADJUSTMENTS IN THE CONSTRUCTION COST INDEX

FUND TYPE	PRESENT	PROPOSED
IMPROVEMENT FUND	\$7,803,000	\$8,190,000

PART 4 MODIFICATIONS TO THE CONTRACT ADJUSTMENT ACCOUNT

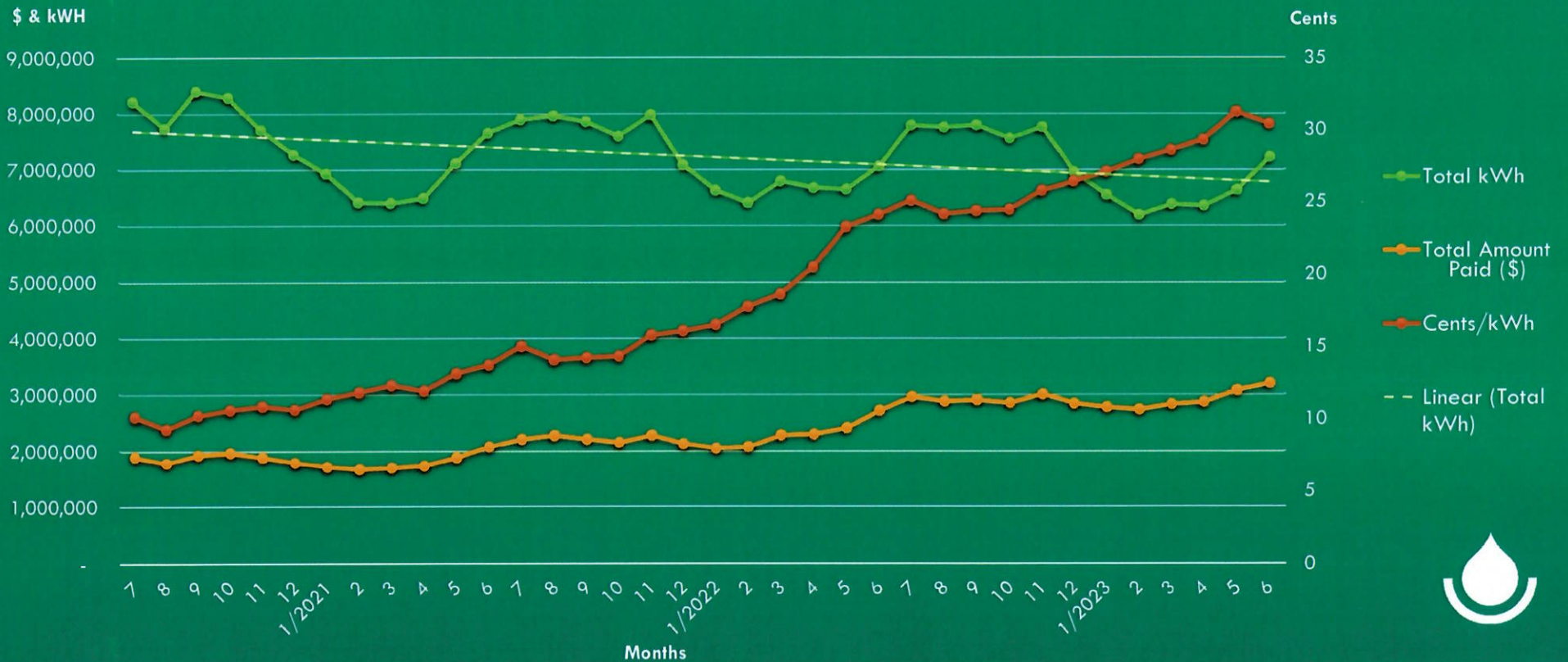
FUND TYPE	PRESENT	PROPOSED
OPERATING FUND	\$21,450,000	\$14,950,000
SPECIAL EXPENDABLE FUND	0	\$6,500,000



FY 2023 ANTICIPATED INCREASE IN ENERGY COSTS

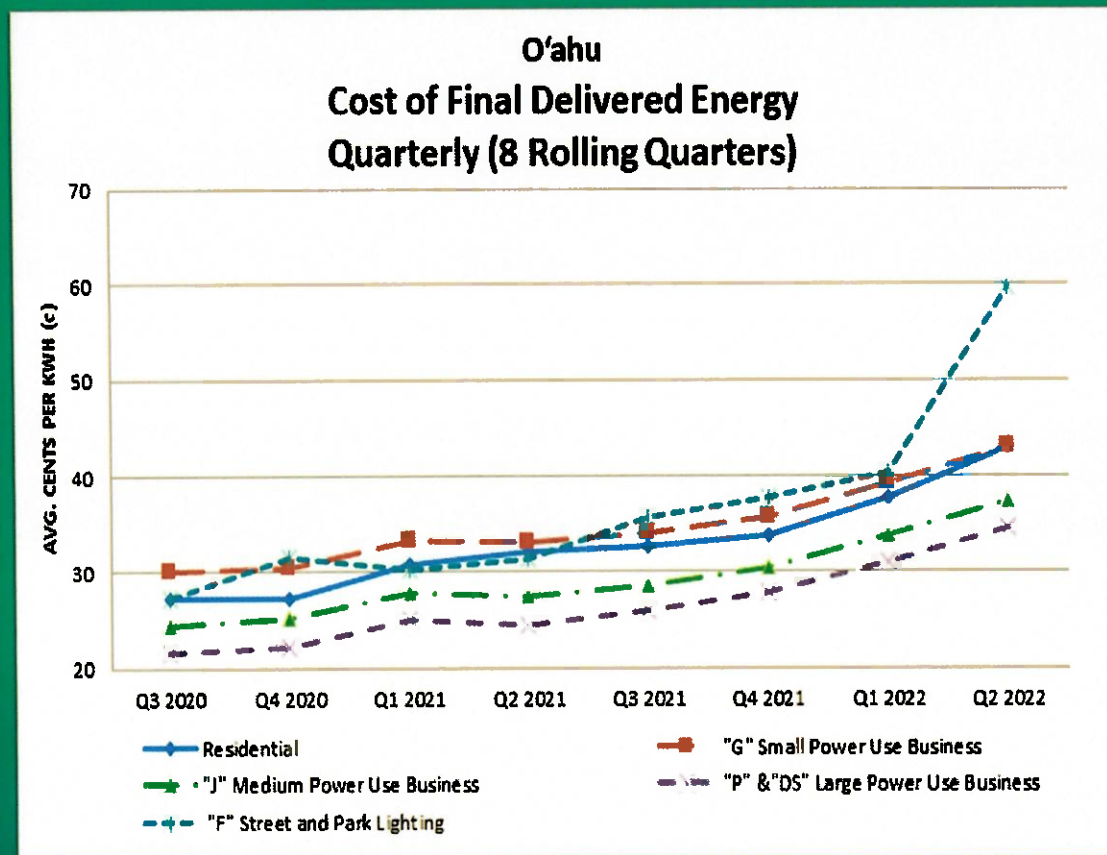
4610 – ELECTRIC POWER WATER DISTRIBUTION FACILITIES

FY 2022 BUDGET	FY 2022 ACTUAL	FY 2023 BUDGET
\$22,000,000	\$25,864,768	\$26,000,000



COST OF FINAL DELIVERED ENERGY TO CUSTOMERS BY RATE CLASS

(SOURCE: HAWAIIANELECTRIC.COM)

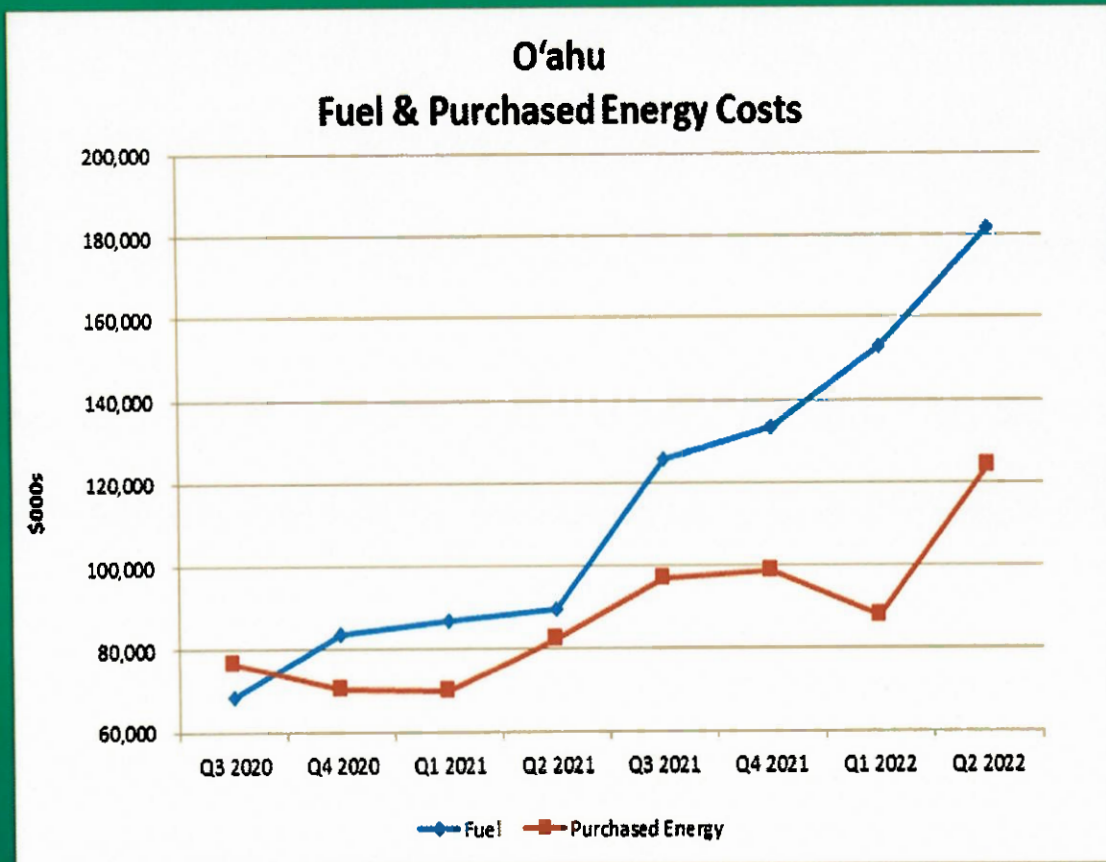


Revenues are based on final rates approved in the 2020 rate case. Surcharges also included in revenues are the **Energy Cost Recovery Clause**, the Purchased Power Adjustment, IRP Cost Recovery, the Renewable Energy Infrastructure Cost Recovery Provision, and the Revenue Balancing Account Adjustment, which may change on a monthly or annual basis.



RECOVERY OF FUEL & PURCHASED ENERGY COSTS

(SOURCE: HAWAIIANELECTRIC.COM)



This summary indicates the allowed recovery of total fuel costs and total purchased energy costs, exclusive of revenue taxes, as reported per the reconciliation provision of the Energy Cost Recovery Clause.

Hawaiian Electric recovers these costs through the **Energy Cost Recovery Clause**





Hawaiian
Electric

NEWS RELEASE

FOR IMMEDIATE RELEASE

Good news on electric rates: Lower fuel prices to bring down bills on 4 islands On O'ahu, bill impact of coal plant closure less than forecast

HONOLULU, Sept. 1, 2022 – Hawaiian Electric customers on Hawai'i, Maui, Lāna'i and Moloka'i will see lower rates in September that reflect the first significant drop in oil prices since spring. O'ahu customers will see a smaller rate increase than expected with the shutdown of the AES coal-fired power plant.

Hawaiian Electric is forecasting the following impacts to a typical residential bill for electricity used in September, which will be included in bills most customers receive in October:

- **O'ahu:** Up 4% or about \$9. This is an improvement over the earlier forecast that projected bills would increase 7% or about \$15 after the coal plant ends operations, which is scheduled for today. Commercial customers will see kilowatt-hour rates up about 2 cents, lower than the 3 cents forecast.
- **Hawai'i Island:** Down 6% or about \$16
- **Maui:** Down 5% or about \$11
- **Moloka'i:** Down 14% or about \$34
- **Lāna'i:** Down 9% or about \$22

The rates for O'ahu are the result of lower oil prices and the addition of the Clearway Milliani 39-megawatt solar project to the grid. Its contracted price of 9 cents per kilowatt-hour is less than a third the cost of oil used for power generation.

Even with the lower rates, typical bills on all islands are still higher than in March before oil prices began to surge. Hawaiian Electric continue to offer options to help customers manage their energy bills. Go to hawaiianelectric.com/paymentarrangement to review payment plan options. For information on available financial assistance, go to hawaiianelectric.com/COVID19.

Reducing energy use is also a practical way to further reduce electric bills. Links to resources are available at hawaiianelectric.com/household-tips-and-resources. Hawaii Energy is an expert resource that offers rebates and practical energy conservation tips at hawaiienergy.com.

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Hawaiian Electric

PO BOX 2750, HONOLULU, HI 96840-0001



CAPITAL IMPROVEMENT PROGRAM BUDGET FY 2023 AMENDMENT NO. 1

SUMMARY

FY2023 CAPITAL IMPROVEMENT PROGRAM (AS ADOPTED)	\$181,109,325
AMENDMENT NO.1 PROJECTS ADDED	+\$33,500,000
AMENDMENT NO.1 PROJECTS DEFFERED	-(\$30,920,000)
SUBTOTAL	\$183,689,325
CONSTRUCTION COST INDEX ACCOUNT	+\$387,000
CONTRACT ADJUSTMENT ACCOUNT - OPERATING	-(\$6,500,000)
CONTRACT ADJUSTMENT ACCOUNT – SPECIAL EXPENDABLE	+\$6,500,000
FY2023 CAPITAL IMPROVEMENT PROGRAM (AS AMENDED)	\$184,076,325





Mahalo!

BOARD OF WATER SUPPLY

Amendment to the FY22-23 CIP Budget

Raelynn Nakabayashi

(808) 748-5177, rnakabayashi@hbws.org

boardofwatersupply.com for more information

September 26, 2022

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

REGULAR MEETING

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

"September 26, 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 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.

At 2:25 PM, Board Member Ray Soon joined the Board meeting in the Board room.

Board Member Na'alehu Anthony asked if treating the water will be necessary and if there is a plan on how or where to start.

Mr. Erwin Kawata responded that treating the contaminated water would require determining how much of the various amounts of fuel have been exposed to the water. Then also look at the treatment processes needed to remove them from the water.

Board Member Anthony inquired if there is anywhere in the country that may have experienced dealing with Total Petroleum Hydrocarbons (TPH) where the BWS could obtain information.

Mr. Kawata explained that the research literature contains very limited information on the treatment and removal of TPH from water. The BWS

will be evaluating all available information and looking at other groundbreaking treatment methods that have yet to be tested to study its effectiveness.

Board Member Anthony commented that as the purveyors of water, it is important that the BWS has a firm understanding of what is happening with the water and the aquifer.

Manager Lau stated that the Red Hill facility has been in operation since 1943 and has released various types of fuel of up to 180,000 gallons in the past 80 years. The BWS will continue to search for answers to proceed with treating the water and keep the Board informed.

Vice Chair Kapua Sproat expressed her concern for the older fuel that has been released and may be dripping from the vadose zone and into the aquifer. She asked how the BWS plans to clean up given the complexity and different types of older fuel that are present.

Mr. Kawata replied that Polycyclic Aromatic Hydrocarbons (PAH) are an example of a heavier chemical that is reflected in older legacy fuels. He explained that the study for treatment is being designed to handle multiple or a multitude of different scenarios, which would analyze and measure how effective it would be in removing the different types and amounts of contaminants.

Manager Lau also responded that it's important to understand how the aquifer was impacted to determine the best way to remediate clean up. He thanked the Board for their support in moving forward with drilling monitor wells which will help in the study and treatment. Manager Lau hopes that the BWS and the Navy will be able to work together for the good of the community and our water resources.

Board Member Dawn Szewczyk inquired if the Navy is providing information gathered from Granulated Activated Carbon (GAC) treatment being used to treat the water at Red Hill Shaft.

Mr. Kawata replied that the BWS had its first technical meeting with the Navy last week. In that meeting, the BWS requested for information from the Navy's granular activated carbon (GAC) system and access to their monitor wells, which arrangements are pending. The BWS has agreed to allow the Navy access to BWS monitoring wells.

Manager Lau stated that the BWS will be meeting in the future with three admirals: Rear Admiral John Wade, Head of Joint Task Force (JTF), which focuses solely on the defueling of the facility; Admiral Stephen Barnett, Head of Navy Region Hawaii; and Rear Admiral Jeffrey Kilian, Navfac Pacific.

Chair Andaya announced that there was one in-person testifier, Susan Pcola-Davis.

REQUEST TO TESTIFY BY PHONE OR IN PERSON

Request Received	Submitter's Name	Specify Action/Info Item	Format	Confirmed
September 26, 2022	Susan Pcola-Davis	Info #1- Red Hill	In-person Testimony with attachment	Yes

Ms. Pcola-Davis distributed a copy of the slideshow that was presented at the Commission on Water Resource Management (CWRM) and her written testimony that included various questions and a general picture of a water distribution system. Ms. Pcola-Davis' questions pertained to the Navy's water supply and if the BWS is currently supplying the Navy. She stated that she is investigating why families who have returned to their homes and the new families that have moved in are still experiencing medical issues.

Manager Lau responded that the BWS and Navy's water systems are separate. The BWS does not supply water to the Navy.

There were no further testimonies via written, telephone, videoconference, or in person for information item #1, Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination.

Board Member Max Sword asked if the BWS has the space to build a treatment facility.

Mr. Kawata replied that there would be available space to build a treatment facility at the Halawa Shaft pumping station but not at other BWS wells. He explained that the treatment study will be designed to handle any BWS pumping station that may be affected by contamination.



RED HILL PROJECT - BWS WATER TREATMENT STUDY

September 26, 2022
boardofwatersupply.com

WATER TREATMENT

- Remove contaminants to comply with drinking water standards
- Many factors influence treatment feasibility and success
 - Chemical properties of contaminants
 - Compatibility to treatment process



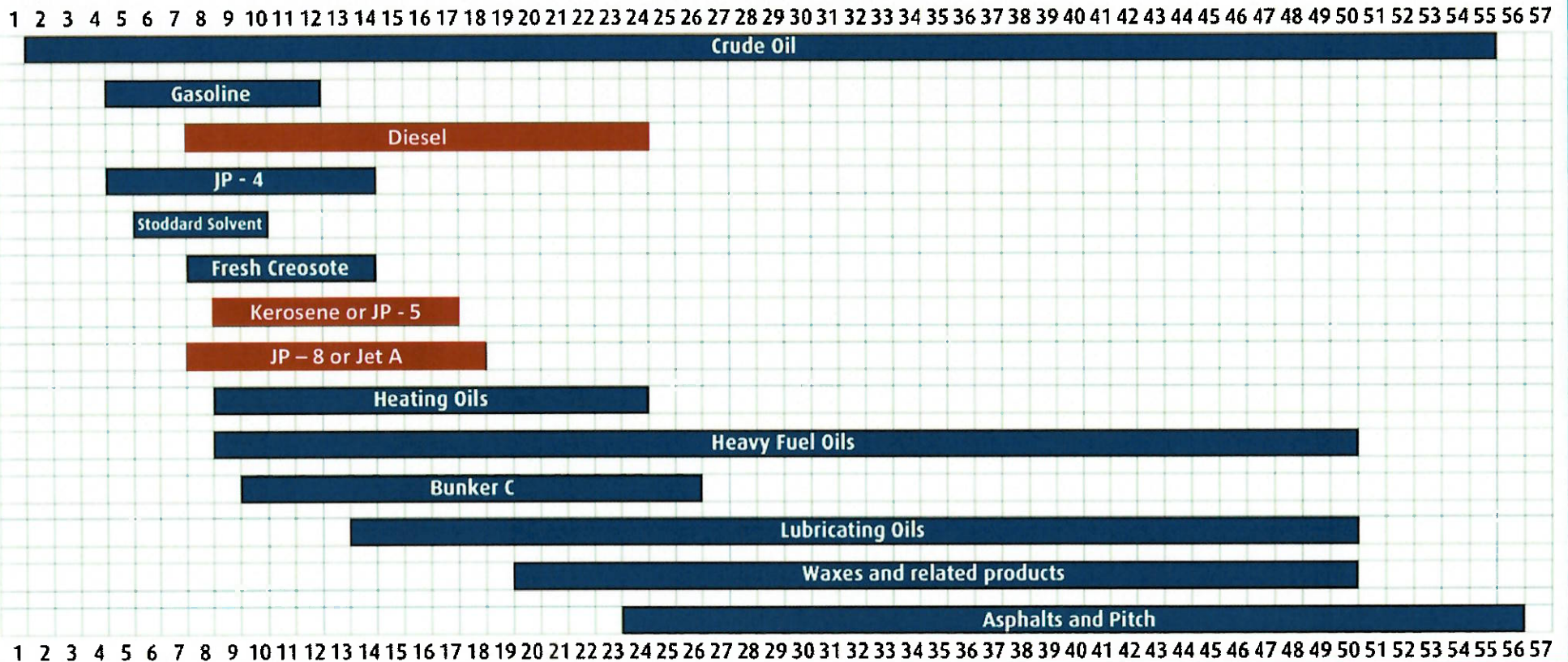
FACTORS INFLUENCING TREATMENT FEASIBILITY

- Amount of contamination present – can vary (high to low concentrations)
- Type and number of contaminants – fuel is a mixture of many different chemicals that don't behave in the same way
- Treatment technology – must evaluate multiple techniques. One treatment method efficient in removing one contaminant may have no effect on another.
- By-products and waste products formed during and from treatment
- Size, scope and cost – multiple techniques will need more space than a single treatment process

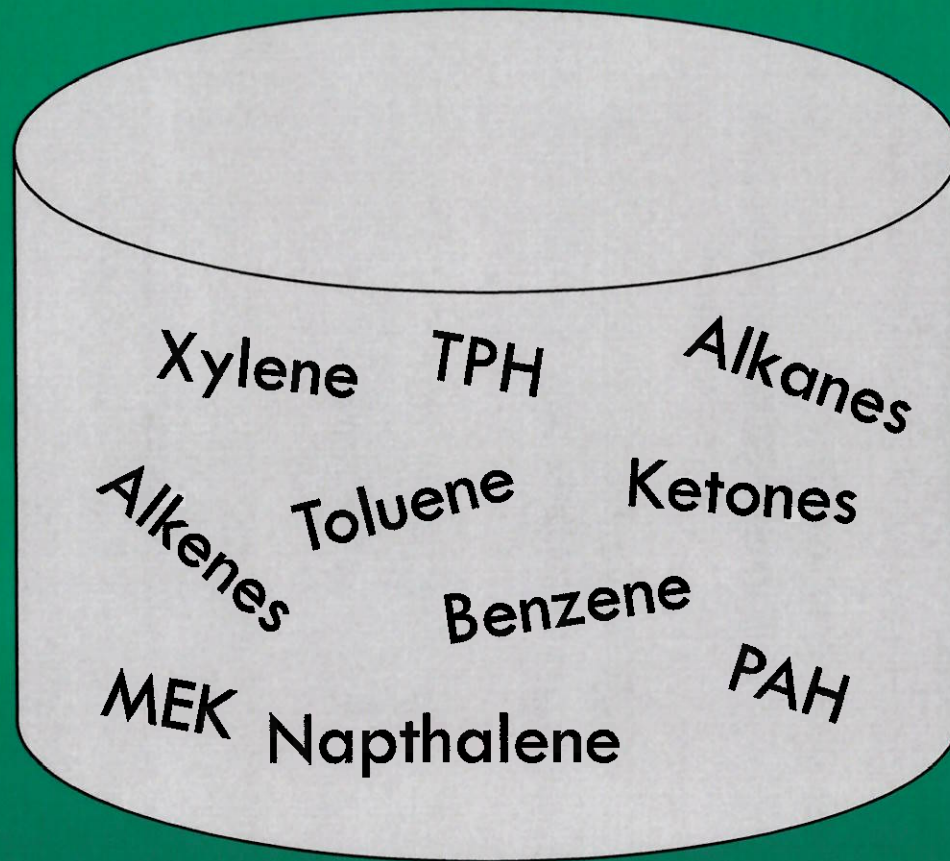


AMOUNT AND TYPE OF CONTAMINATION

Number of Carbons

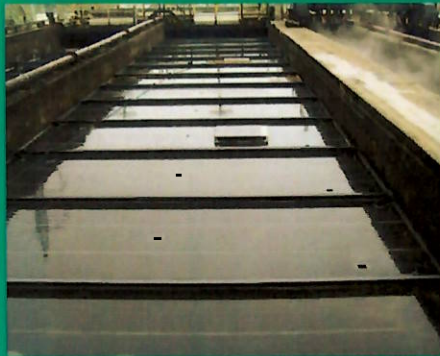


AMOUNT AND TYPE OF CONTAMINATION – CONT.



TREATMENT TECHNOLOGIES BEING EVALUATED

Gravity Separation



Membrane Filtration



Ultraviolet Advanced Oxidation



Dissolved Air Flotation



Biologically Active Filtration



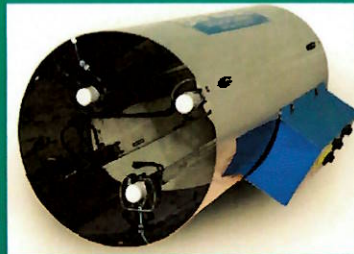
Granular Activated Carbon



Coagulation/Flocculation



Ozonation



TREATMENT SEQUENCES UNDER EVALUATION



QUESTIONS / DISCUSSION



APPROVAL OF MINUTES

Approval of the Minutes of the Regular Meeting Held on August 22, 2022.

MOTION TO APPROVE

Na'alehu Anthony and Ray Soon motioned and seconded, respectively, to approve the Minutes of the Regular Meeting on August 22, 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 Max Sword announced that he abstained from voting. Chair Andaya announced that the motion was unanimously carried.

THE MINUTES OF THE REGULAR MEETING HELD ON AUGUST 22, 2022 WERE APPROVED AT THE SEPTEMBER 26, 2022 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON	X		
MAX J. SWORD			ABSTAIN
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		

“September 26, 2022

ADOPTION OF
RESOLUTION
NO. 950, 2022,
AMENDING THE
2022-2023
CAPITAL
IMPROVEMENT
PROGRAM
BUDGET AND
APPROPRIATING
FUNDS THEREFOR
AND REVISION
OF THE
2022-2023
CAPITAL
IMPROVEMENT
PROGRAM
BUDGET –
AMENDMENT NO. 1

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

Chair and Members:

Subject: Adoption of Resolution No. 950, 2022 Amending the 2022-2023 Capital Improvement Program Budget and Appropriating Funds Therefor and Revision of the 2022-2023 Capital Improvement Program Budget – Amendment No. 1

We recommend adoption of the attached Resolution No. 950, 2022, which increases the total appropriation for the 2022-2023 Capital Improvement Program Budget by \$2,967,000, from \$181,109,325 to \$184,076,325.

This resolution will provide additional funding as follows:

1. \$33,500,000 for the re-programming of the following FY 2022 CIP projects:
 - a. \$8,500,000 Keolu Hills Water System Improvements, Part II
 - b. \$11,200,000 Kalama Valley Water System Improvements, Part II
 - c. \$10,500,000 Palolo Water System Improvements, Part III
 - d. \$2,000,000 Puiwa Road 12-Inch and Dowsett Avenue 8-Inch Mains
 - e. \$1,300,000 Waiomao Homestead 8-Inch Main

These projects were originally budgeted in FY 2021-2022 but contract awards were not made, no funds were encumbered, and funding lapsed.

2. \$387,000 in the Construction Cost Index Account

Further, this resolution will remove funding as follows:

3. <\$30,920,000> reduction of funds for the deferral of these projects to a future fiscal year:
 - a. <\$11,000,000> Palolo Water Systems Improvements, Part IV
 - b. <\$1,200,000> Barbers Point 215 Water System Improvements
 - c. <\$3,100,000> Halupa Street 12-Inch Main
 - d. <\$4,920,000> Kahilina Place and Aiea Heights Drive Area Water System Improvements
 - e. <\$5,700,000> Mailili Road 20-Inch Main, Paakea Road to Lualuelei Homestead Road
 - f. <\$2,000,000> Kakela Drive and Mohala Way Water System Improvements
 - g. <\$3,000,000> Nuuanu Reservoir No. 1 Dam Improvements

Finally, this resolution will modify the source of funds for existing projects as follows:

4. \$6,500,000 reduction of Operating funds and replacement with Special Expendable funds in the Contracts Adjustments Account to provide funds for contract change orders in Fiscal Year 2023. This replacement of funds aligns with the source of funds originally used to award the contracts now requiring change orders.

We recommend adoption of the amended Capital Improvement Program Budget for the fiscal year beginning July 1, 2022, and ending June 30, 2023, as submitted to the Board on September 26, 2022.

A public hearing to consider the proposed amended budget, as required by the City Charter, was held on September 26, 2022. The affidavit attesting to the publication of the public hearing notice is attached.

The current Capital Improvement Program (CIP) Budget shall be amended as described below:

1. Add appropriations for the following CIP projects:

Item No. 16a. KEOLU HILLS WATER SYSTEM IMPROVEMENTS, PART II

Install 12-inch mains and appurtenances along Keolu Drive, from Akumu Street to Nanialii Street; along Akumu Street, from Keolu Drive to Alahaki Street; along Iana Street, from Keolu Drive to FH W00766; and along Keolu Drive, from Kanapuu Drive to Akalani Loop - approx. 3,580 lin. ft. Install 8-inch mains and appurtenances along Akumu Street, from Alahaki Street to Holoholo Street; along Keolu Drive, from Akalani Loop to Akahai Street; along Akahai Street, from Keolu Drive to Akamai Street; along Akaiki Street, from Akahai Street to Akamai Street; and along Halula Place, from Akumu Street to end - approx. 4,270 lin. ft. Install 4-inch mains and appurtenances along Akumu Place, from Akumu Street to end; along Akiu Place, from Akumu Street to end; and along Akalei Place from Akumu Street to end - approx. 540 lin. ft.

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND CONST	0	8,500,000

Item No. 18a. KALAMA VALLEY WATER SYSTEM IMPROVEMENTS, PART II

Install 12-inch mains and appurtenances along Kealahou Street, from 661 Kealahou Street to Papalalo Place - approx. 2,305 lin. ft. Install 8-inch mains and appurtenances along Wawau Street, from Honokahua Street to Kaeleku Street; along Honokahua Street, from Kaeleku Street to end; along Kealahou Street, from Papalalo Place to end; along Nakalele Street, from Kealahou Street to Pihana Street; along Pihana Street, from 45 feet north of FH M06514 to end; and along Ipuai Street, from Kealahou Street to Honokahua Street - approx. 4,135 lin. ft. Install 8- and 4-inch mains and appurtenances along Kalina Place, from Kealahou Street to end; along Maloo Place, from Honokahua Street to end; along Ohina Place, from Honokahua

Street to end; along Honokahua Place, from Honokahua Street to end; along Kiaala Place, from Kealahou Street to end; and along Papalalo Place, from Kealahou Street to end - approx. 2,040 lin. ft. Install service laterals and appurtenances along Kaeleku Street, from Honokahua Street to end; along Honokahua Street, from Kahului Street to Kepaniwai Street; along Napoko Place, from Kealahou Street to end; along Kamaomao Place, from Kealahou Street to end; along Puumahoe Place, from Kealahou Street to end; along Muolea Place, from Kealahou Street to end; along Olowalu Place, from Kealahou Street to end; along Olowalu Way, from Olowalu Place to end; along Huiialoha Street, from Kealahou Street to Kahului Street; along Kealahou Street, from Huiialoha Street to FH no. M06314; along Inuwai Place, from Kealahou Street to end; along Kahului Street, from Kaeleku Street to FH no. M06477; along Pihana Street, from Kahului Street to FH no. M06514; along Inuwai Way, from Inuwai Place to end; and along Eaea Place, from Kealahou Street to end - approx. 199 service laterals.

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND CONST	0	11,200,000

Item No. 19a. PALOLO WATER SYSTEM IMPROVEMENTS, PART III

Install 16-inch mains and appurtenances along Palolo Avenue, from Carlos Long Street to Palolo Place; and along 10th Avenue, from Palolo Place to Makanui Place - approx. 1,410 lin. ft. Install 12-inch mains and appurtenances along Palolo Avenue, from Kiwila Street to Palolo Place; and along 10th Avenue, from Palolo Place to Waiomao Road - approx. 7,000 lin. ft. Install 8-inch mains and appurtenances along Palolo Avenue, from Kauhana Street to Carlos Long Street; along Kaalani Place, from 10th Avenue to end; along Kaululoa Place, from Palolo Avenue to end; along Makanui Place, from 10th Avenue to end; along Holomua Place, from Makanui Place to end; and along 10th Avenue Place from 10th Avenue to end – approx. 3,470 lin. ft. Install 4-inch mains and appurtenances along Palolo Place, from FH M00899 to end – approx. 30 lin. ft.

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND CONST	0	10,500,000

Item No. 20a. PUIWA ROAD 12-INCH AND DOWSETT AVENUE 8-INCH MAINS

Install 12-inch mains and appurtenances along Puiwa Road, from 24 Puiwa Road to Puiwa Lane - approx. 500 lin. ft. Install 8-Inch mains and appurtenances along Dowsett Avenue, from fire hydrant M03678 to Alika Avenue - approx. 1,000 lin. ft. Install 8-inch main and fire hydrant along the lane near 3964 Old Pali Road, from Old Pali Road to end - approx. 510 lin. ft.

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND CONST	0	2,000,000

Item No. 21a. WAIOMAO HOMESTEAD ROAD 8-INCH MAIN
 Install 8-inch mains and appurtenances along Waiomao Homestead Road, from Waiomao Road to Palolo Chlorinator - approx. 700 lin. ft.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	CONST	0	1,300,000

2. To provide funding for the CIP projects that have been reprogrammed above, and to appropriately size the Capital Improvement Program, the following CIP projects and appropriations will be deferred to a future fiscal year:

Item No. 16 PALOLO WATER SYSTEM IMPROVEMENTS, PART IV
 The project will be deferred to a future fiscal year.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	CONST	11,000,000	0

Item No. 18 BARBERS POINT 215 WATER SYSTEM IMPROVEMENTS
 The project will be deferred to a future fiscal year.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	CONST	1,200,000	0

Item No. 19 HALUPA STREET 12-INCH MAIN
 The project will be deferred to a future fiscal year.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	CONST	3,100,000	0

Item No. 20 KAHILINAI PLACE AND AIEA HEIGHTS DRIVE AREA
 WATER SYSTEM IMPROVEMENTS
 The project will be deferred to a future fiscal year.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	CONST	4,920,000	0

Item No. 21 MAILILI ROAD 20-INCH MAIN, PAAKEA ROAD TO
 LUALUALEI HOMESTEAD ROAD
 The project will be deferred to a future fiscal year.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	CONST	5,700,000	0

Item No. 22 KAKELA DRIVE AND MOHALA WAY WATER SYSTEM
 IMPROVEMENTS
 The project will be deferred to a future fiscal year.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	CONST	2,000,000	0

Item No. 31 NUUANU RESERVOIR NO. 1 DAM IMPROVEMENTS

The project will not be ready for construction this fiscal year and will therefore be deferred to a future fiscal year.

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND CONST	3,000,000	0

3. Increase the appropriations for the following:
CONSTRUCTION COST INDEX (CCI) ADJUSTMENT ACCOUNT

With the additional funding for construction projects, a commensurate increase will be added to this account.

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
IMPROVEMENT FUND	7,803,000	8,190,000

4. Modified the appropriations for the following:

CONTRACT ADJUSTMENT ACCOUNT (CAA)

Modified the appropriations to match the original source of funding of the contracts requiring change orders in FY 2023.

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
OPERATING FUND	21,450,000	14,950,000
SPECIAL EXPENDABLE FUND	0	6,500,000

The following is a summarization of the FY 2022-2023 CIP Budget Amendment No. 1:

FY 2023 CIP Budget (as Adopted)	\$181,109,325
FY 2023 – Amendment No. 1	
Projects – Added	+\$33,500,000
Projects – Deferred	(\$30,920,000)
SUB-TOTAL	\$183,689,325
Construction Cost Index Account	+\$387,000
Contract Adjustment Account – Operating	(6,500,000)
Contract Adjustment Account – Special Ex	+6,500,000
FY 2023 CIP Budget (as Amended)	<u>\$184,076,325</u>

Upon approval, the appropriate pages of the current CIP budget will be revised for distribution.

Respectfully Submitted,

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

Attachment”

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

Board Member Ray Soon stated that he understood that some projects were moved into future fiscal years due to time constraints of encumbering funds in the Fiscal Year 2022. He expressed his concern about deferring projects and inquired why the other Fiscal Year 2023 projects are now being deferred into future fiscal years.

Manager Lau responded that one reason is due to the number of vacant positions in the Capital Projects Division. He stated that even using consultant services and project management services would not be enough capacity.

Ms. Nakabayashi stated that the five projects that are being added require the deferral of equivalent projects, in cost and level of staff effort required, to be accomplished. From the cost perspective, she explained that due to current economic conditions, the BWS is faced with increasing costs to borrow. The use of bond proceeds of a prior year that have not yet been encumbered or expended, to finance the projects scheduled for this year, will allow the BWS to issue a smaller amount of new bonds this year, thereby saving debt service costs. From an operational standpoint, as Manager Lau mentioned staff vacancies prevent us from drastically increasing their workload; further reprogramming of these projects will give the BWS the opportunity to obtain permits and approvals from multiple regulatory agencies. The proposed amendment also reduces the operating appropriation and increases the appropriation of special expendable funds. These efforts are representative of the BWS closely monitoring current economic instability and proposing conservative spending efforts.

Manager Lau also stated that while there are pipeline projects that are being deferred, the staff has also been tasked with an increasing number of projects related to Red Hill, such as building new monitoring wells. He reassured the Board that the pipeline projects will get done.

Board Member Soon asked if the projects being deferred will make it into the Fiscal Year 2024.

Manager Lau responded that the BWS is unsure if the projects being deferred will be included in the Fiscal Year 2024 Budget due to the high inflation and increasing interest rates. He stated that the BWS is currently pursuing a rate study that will assist with determining which projects are affordable.

Chair Andaya echoed Board Member Soon's concerns. He understands there are challenges, but hopes that the BWS can work together with contractors and partners and get through the challenges.

Board Member Anthony commented that the BWS needs help from the Federal government to manage costs that are being incurred caused by the impacts of Red Hill.

**MOTION
TO APPROVE**

Max Sword and Dawn Szewczyk motioned and seconded, respectively, to approve the Adoption of Resolution No. 950, 2022, Amending the 2022-2023 Capital Improvement Program Budget and Appropriating Funds Therefor and Revision of the 2022-2023 Capital Improvement Program Budget – Amendment No. 1.

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

Ms. Cruz-Achiu conducted a roll call vote: Vice Chair Kapua Sproat, aye; Board Member Ray Soon, aye; Board Member Max Sword, aye; Board Member Na'alehu Anthony, aye; Board Member Jade Butay, aye; Board Member Dawn Szewczyk, aye; and Chair Bryan Andaya, aye.

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

ADOPTION OF RESOLUTION NO. 950, 2022, AMENDING THE 2022-2023 CAPITAL IMPROVEMENT PROGRAM BUDGET AND APPROPRIATING FUNDS THEREFOR AND REVISION OF THE 2022-2023 CAPITAL IMPROVEMENT PROGRAM BUDGET – AMENDMENT NO. 1 WAS APPROVED ON SEPTEMBER 26, 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	X		
DAWN B. SZEWCZYK	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 950, 2022

**RESOLUTION ADOPTING THE AMENDED CAPITAL IMPROVEMENT PROGRAM
BUDGET FOR FISCAL YEAR 2023 AND APPROPRIATING FUNDS THEREFOR**

BE IT RESOLVED that the sum of FIFTY-ONE MILLION EIGHT HUNDRED FIFTY-ONE THOUSAND THREE HUNDRED TWENTY-FIVE DOLLARS (\$51,851,325) be and the same is hereby appropriated out of all monies placed to the credit of the Operating Fund, the sum of SIXTY-NINE MILLION NINETY THOUSAND DOLLARS (\$69,090,000) be and the same is hereby appropriated out of all monies placed to the credit of the Improvement Fund, the sum of THIRTY-THREE MILLION SEVEN HUNDRED FIFTY THOUSAND DOLLARS (\$33,750,000) be and the same is hereby appropriated out of all monies placed to the credit of the Special Expendable Fund, the sum of TWENTY-EIGHT MILLION EIGHT HUNDRED EIGHTY-FIVE THOUSAND DOLLARS (\$28,885,000) be and the same is hereby appropriated out of all monies placed to the credit of the Extramural Fund, and the sum of FIVE HUNDRED THOUSAND DOLLARS (\$500,000) be and the same is hereby appropriated out of all monies placed to the credit of the Operating Fund – SRF Eligible Fund for a total of ONE HUNDRED EIGHTY-FOUR MILLION SEVENTY-SIX THOUSAND THREE HUNDRED TWENTY-FIVE DOLLARS (\$184,076,325) for expenditures of the Board of Water Supply Capital Improvement Program Budget for the fiscal year beginning July 1, 2022 and ending June 30, 2023, as follows:

CAPITAL IMPROVEMENT PROGRAM BUDGET

OPERATING FUND..... \$ 51,851,325

IMPROVEMENT FUND.....	\$ 69,090,000
SPECIAL EXPENDABLE FUND.....	\$ 33,750,000
EXTRAMURAL FUND.....	\$ 28,885,000
OPERATING FUND – SRF ELIGIBLE FUND.....	\$ 500,000
TOTAL.....	\$ 184,076,325

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

BE IT FURTHER RESOLVED, that the Board of Water Supply may receive monies which use is specified or otherwise limited by the monies' source from any government or quasi-governmental agency. These monies include Coronavirus State and Local Fiscal Recovery Fund funds from the American Rescue Plan Act of 2021 (Pub. L. 117-2). When such funds are received, in amounts that may be necessary to finance projects listed in the Board of Water Supply Capital Improvement Program Budget and designated to be financed from the Extramural Fund, the Board of Water Supply shall maintain accounts showing the monies so received and specifying the purposes for which they have been received and held; and

BE IT FURTHER RESOLVED, that expenditure of all monies described in the preceding paragraph, and for the purposes set forth, shall be deemed approved, and the Manager and Chief Engineer deemed authorized to receive and expend the funds provided as provided by law; and

BE IT FINALLY RESOLVED that revenue bonds of the Board of Water Supply, City and County of Honolulu, general obligation bonds of the City and County of Honolulu, commercial paper, or other alternative forms of financing deemed appropriate by the Board of Water Supply, are authorized for issuance to yield the amount that may be necessary to finance projects listed in the Board of Water Supply Capital Improvement Program Budget and designated to be financed from the Improvement Fund and such additional amounts as may be deemed necessary to pay the expenses of issuance of such bonds or other financing; provided that the Board of Water Supply shall by resolution, and the City Council of the City and County of Honolulu for general obligation bonds shall by ordinance, determine the form, date, amount, denomination, and maturity of the bonds herein authorized.

ADOPTED:


BRYAN P. ANDAYA
 Chair

Honolulu, Hawaii
 September 26, 2022

ADOPTION OF RESOLUTION NO. 950, 2022, AMENDING THE 2022-2023 CAPITAL IMPROVEMENT PROGRAM BUDGET AND APPROPRIATING FUNDS THEREFOR AND REVISION OF THE 2022-2023 CAPITAL IMPROVEMENT PROGRAM BUDGET – AMENDMENT NO. 1 APPROVED ON SEPTEMBER 26, 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	X		
DAWN B. SZEWCZYK	X		

Board of Water Supply
Capital Improvement Program
FY 2023
Amendment No. 1 (09/26/22)

Summary by Categories	Operating Fund (1)	Operating Fund - SRF Eligible (2)	Special Expendable Fund (3)	Improvement Fund (4)	Extramural Fund (5)	Total
I. Research and Development	19,999,500	-	-	-	-	19,999,500
II. Renewal and Replacement						
A. Pumps	6,100,000	-	-	16,400,000	6,000,000	28,500,000
B. Reservoirs	-	-	-	-	8,500,000	8,500,000
C. Pipelines	200,000	500,000	-	42,700,000	4,800,000	48,200,000
D. Treatment	1,500,000	-	-	-	-	1,500,000
E. Facilities	6,050,000	-	-	1,800,000	6,000,000	13,850,000
Category II - sub-total	13,850,000	500,000	-	60,900,000	25,300,000	100,550,000
III. Capacity Expansion						
A. Pumps	-	-	4,950,000	-	-	4,950,000
B. Reservoirs	-	-	-	-	-	-
C. Pipelines	-	-	-	-	-	-
D. Treatment	-	-	-	-	-	-
E. Facilities	-	-	19,000,000	-	-	19,000,000
Category III - sub-total	-	-	23,950,000	-	-	23,950,000
Total - Categories I - III	33,849,500	500,000	23,950,000	60,900,000	25,300,000	144,499,500
Construction Cost Index Account	3,051,825	-	3,300,000	8,190,000	3,585,000	18,126,825
Contract Adjustment Account	14,950,000	-	6,500,000	-	-	21,450,000
Capital Improvement Program - Total	51,851,325	500,000	33,750,000	69,090,000	28,885,000	184,076,325

(1) Operating Fund is defined as rate revenue or cash.

(2) Operating Fund - SRF Eligible is defined as projects that are eligible for participation in the State of Hawaii, Department of Health State Revolving Fund (SRF) loan program.

(3) Special Expendable Fund is a restricted fund in which water system facilities charges are deposited and the funding reserved for water system capacity expansion projects.

(4) Improvement Fund is defined as the proceeds of Water System Revenue Bonds.

(5) Extramural Fund is a restricted fund, established by Resolution No. 778, 2007, in which funds received from any governmental agency or private entity, pursuant to negotiated agreements, contracts and/or grants, are deposited and separately accounted for.

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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
<u>I. Research and Development</u>									
1. Manoa Well II Exploratory Well	Drill and case replacement exploratory well at existing Manoa Wells II Station (TMK: 2-9-054:033).	CP	Const	1,000,000	-	-	-	-	1,000,000
2. Exploratory Wells for Red Hill Contamination Response	Drill, case, install test pump and sample up to three (3) exploratory wells as possible replacement sources for the loss of Halawa Shaft due to the Red Hill fuel contamination.	CP	Const	7,567,250	-	-	-	-	7,567,250
3. Monitoring Wells for Red Hill Contamination Response	Drill and case up to three (3) monitoring wells for use as "sentinel" wells to warn of the presence of an underground fuel plume from the Red Hill fuel contamination.	CP	Const	3,228,250	-	-	-	-	3,228,250
4. Waikele Gulch Exploratory Wells	Prepare plans, specifications, construction bid documents, obtain necessary permits and engineering report to drill, install, test pump and sample up to two exploratory wells.	CP	P&E P&E	3,679,000 275,000	-	-	-	-	3,679,000 275,000
5. Construction Management for Various BWS Construction	Provide construction management and training services for selected BWS construction projects.	CP	P&E	2,000,000	-	-	-	-	2,000,000
Total Category I - Research and Development				19,999,500	-	-	-	-	19,999,500

II. Renewal and Replacement

A. Pumps

6. Honouliuli Wells II MCC Replacement	Replacement of above ground piping and valves at pumping units, replacement of MCC and other electrical equipment, replacement of hydro-pneumatic tank, and modification to existing control building.	CP-ME	Const	-	-	-	5,900,000	-	5,900,000
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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
7. Mililani Wells IV – Replacement of Pumps No. 1 and 3	Replacement of pumping units and controls and starters, replacement above ground piping and valves at pumping units, replacement of MCC and other electrical equipment, perform wastewater vault investigation, and perform power study.	CP-ME	Const	-	-	-	8,000,000	-	8,000,000
8. Haleiwa Wells Renovation	Replacement of pumping units and controls and starters, replacement of above ground piping and valves at pumping units, replacement and relocation of the site electrical transformer, replacement of MCC and other electrical equipment, and perform new permanent discharge study.	CP-ME	Const	-	-	-	-	6,000,000	6,000,000
9. Temporary Pumping Connections	Install connections for temporary pumps at critical pump stations to improve reliability	CP-ME	Const	-	-	-	2,500,000	-	2,500,000
10. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	CP-ME	Const	3,500,000	-	-	-	-	3,500,000
11. Selected Deactivated Wells Condition Assessment	Conduct a condition assessment of one well each at the existing Waimalu Wells II, Kaonohi Wells II sites and the Kaamilo Wells Unit #2, to determine the viability of the wells for potable production use to add more source capacity to the Metropolitan system to make up for the loss of Halawa Shaft caused by the Red Hill fuel contamination.	WR	P&E	1,500,000	-	-	-	-	1,500,000
12. Kailua Heights Booster Electrical Upgrades	Install electrical upgrades and facility repairs	CP-ME	P&E	450,000	-	-	-	-	450,000
13. Niu Valley Booster No. 1 MCC Replacement	Install MCC replacement and facility repairs	CP-ME	P&E	400,000	-	-	-	-	400,000
14. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	CP-ME	P&E	250,000	-	-	-	-	250,000
Pumps Total				6,100,000	-	-	16,400,000	6,000,000	28,500,000

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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total	
B. Reservoirs										
15. Wilhelmina Rise 811 Reservoir Replacement	Replace the existing 0.43 reservoir and appurtenances.	CP-D	Const	-	-	-	-	8,500,000	8,500,000	
Reservoirs Total				-	-	-	-	8,500,000	8,500,000	

C. Pipelines

16. Keolu Hills Water System Improvements, Part II	Install 12-inch mains and appurtenances along Keolu Drive, from Akumu Street to Nanialii Street; along Akumu Street, from Keolu Drive to Alahaki Street; along Iana Street, from Keolu Drive to FH W00766; and along Keolu Drive, from Kanapuu Drive to Akalani Loop - approx. 3,580 lin. ft. Install 8-inch mains and appurtenances along Akumu Street, from Alahaki Street to Holoholo Street; along Keolu Drive, from Akalani Loop to Akahai Street; along Akahai Street, from Keolu Drive to Akamai Street; along Akaiki Street, from Akahai Street to Akamai Street; and along Halula Place, from Akumu Street to end - approx. 4,270 lin. ft. Install 4-inch mains and appurtenances along Akumu Place, from Akumu Street to end; along Akiu Place, from Akumu Street to end; and along Akalei Place from Akumu Street to end - approx. 540 lin.	CP-D	Const	-	-	-	-	-	-
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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
16a. Keolu Hills Water System Improvements, Part II	Install 12-inch mains and appurtenances along Keolu Drive, from Akumu Street to Nanialii Street; along Akumu Street, from Keolu Drive to Alahaki Street; along Iana Street, from Keolu Drive to FH W00766; and along Keolu Drive, from Kanapuu Drive to Akalani Loop - approx. 3,580 lin. ft. Install 8-inch mains and appurtenances along Akumu Street, from Alahaki Street to Holoholo Street; along Keolu Drive, from Akalani Loop to Akahai Street; along Akahai Street, from Keolu Drive to Akamai Street; along Akaiki Street, from Akahai Street to Akamai Street; and along Halula Place, from Akumu Street to end - approx. 4,270 lin. ft. Install 4-inch mains and appurtenances along Akumu Place, from Akumu Street to end; along Akiu Place, from Akumu Street to end; and along Akalei Place from Akumu Street to end - approx. 540 lin.	CP-D	Const	-	-	-	8,500,000	-	8,500,000
17. Moanalua Road 8-Inch Main, Waimalu Neighborhood Park Vicinity	Install 8-inch mains and appurtenances along Moanalua Road, from fire hydrant L00646 to Kaahale Road - approx. 580 lin. ft.	CP-D	Const	-	-	-	1,400,000	-	1,400,000
18. Barbers Point 215 Water System Improvements	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	CP-D	Const	-	-	-	-	-	-

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			Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total	
18a. Kalama Valley Water System Improvements, Part II	Install 12-inch mains and appurtenances along Kealahou Street, from 661 Kealahou Street to Papalalo Place - approx. 2,305 lin. ft. Install 8-inch mains and appurtenances along Wawau Street, from Honokahua Street to Kaeleku Street; along Honokahua Street, from Kaeleku Street to end; along Kealahou Street, from Papalalo Place to end; along Nakafele Street, from Kealahou Street to Pihana Street; along Pihana Street, from 45 feet north of FH M06514 to end; and along Ipuai Street, from Kealahou Street to Honokahua Street - approx. 4,135 lin. ft. Install 8- and 4-inch mains and appurtenances along Kalina Place, from Kealahou Street to end; along Maloo Place, from Honokahua Street to end; along Ohina Place, from Honokahua Street to end; along Honokahua Place, from Honokahua Street to end; along Kiaala Place, from Kealahou Street to end; and along Papalalo Place, from Kealahou Street to end - approx. 2,040 lin. ft. Install service laterals and appurtenances along Kaeleku Street, from Honokahua Street to end; along Honokahua Street, from Kahului Street to Kepaniwai Street; along Napoko Place, from Kealahou Street to end; along Kamaomao Place, from Kealahou Street to end; along Puumahoe Place, from Kealahou Street to end; along Muolea Place, from Kealahou Street to end; along Olowalu Place, from Kealahou Street to end; along Olowalu Way, from Olowalu Place to end; along Hualoha Street, from Kealahou Street to Kahului Street; along Kealahou Street, from Hualoha Street to FH no. M06314; along Inuwai Place, from Kealahou Street to end; along Kahului Street, from Kaeleku Street to FH no. M06477; along Pihana Street, from Kahului Street to FH no. M06514; along Inuwai Way, from Inuwai Place to end; and along Eaea Place, from Kealahou Street to end - approx. 199 service laterals.	CP-D	Const	-	-	-	11,200,000	-	11,200,000

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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
19. Halupa Street 12-Inch Main	Install 12-inch mains and appurtenances along Halupa Street, from Molehu Drive to Punihi Street - approx. 1,200 lin. ft.	CP-D	Const	-	-	-	-	-	-
19a. Palolo Water System Improvements, Part III	Install 16-inch mains and appurtenances along Palolo Avenue, from Carlos Long Street to Palolo Place; and along 10th Avenue, from Palolo Place to Makanui Place - approx. 1,410 lin. ft. Install 12-inch mains and appurtenances along Palolo Avenue, from Kiwila Street to Palolo Place; and along 10th Avenue, from Palolo Place to Waiomao Road - approx. 7,000 lin. ft. Install 8-inch mains and appurtenances along Palolo Avenue, from Kauhana Street to Carlos Long Street; along Kaalani Place, from 10th Avenue to end; along Kaululoa Place, from Palolo Avenue to end; along Makanui Place, from 10th Avenue to end; along Holomua Place, from Makanui Place to end; and along 10th Avenue Place from 10th Avenue to end – approx. 3,470 lin. ft. Install 4-inch mains and appurtenances along Palolo Place, from FH M00899 to end – approx. 30 lin. ft.	CP-D	Const	-	-	-	10,500,000	-	10,500,000
20. Kahilina Place and Aiea Heights Drive Area Water System Improvements	Install 8-inch mains and appurtenances along Kahilina Place, from Aiea Heights Drive to end; along Aiea Heights Drive, from Hoio Street to Aiea 277 Reservoir; along Ahehe Street, from Kanaloa Street to Aiea Heights Drive; and along Hakina Street, from Kanaloa Street to Kaulainaahee Place - approx. 4,070 lin. ft.	CP	Const	-	-	-	-	-	-
20a. Puiwa Road 12-Inch and Dowsett Avenue 8-Inch Mains	Install 12-inch mains and appurtenances along Puiwa Road, from 24 Puiwa Road to Puiwa Lane - approx. 500 lin. ft. Install 8-Inch mains and appurtenances along Dowsett Avenue, from fire hydrant M03678 to Alika Avenue - approx. 1,000 lin. ft. Install 8-inch main and fire hydrant along the lane near 3964 Old Pali Road, from Old Pali Road to end - approx. 510 lin. ft.	CP	Const	-	-	-	2,000,000	-	2,000,000

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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
21. Maillili Road 20-Inch Main, Paakea Road to Lualualei Homestead Road	Install 20-inch main and appurtenances along Maillili Road, from Paakea Road to Lualualei Homestead Road - approx. 3,800 lin. ft.	CP	Const	-	-	-	-	-	-
21a. Waiomao Homestead Road 8-Inch Main	Install 8-inch mains and appurtenances along Waiomao Homestead Road, from Waiomao Road to Palolo Chlorinator - approx. 700 lin. ft.	CP	Const	-	-	-	1,300,000	-	1,300,000
22. Kakela Drive and Mohala Way Water System Improvements	Install 8-inch mains and appurtenances along Kakela Drive, from McKinley Street to McKinley Street; and along Mohala Way, from East Manoa Road to Beckwith Street - approx. 1,865 lin. ft. Install 8-inch and 4-inch mains along Kakela Place, from Kakela Drive to end; and along Kakela Iki Place, from Kakela Drive to end - approx. 300 lin. ft.	CP	Const	-	-	-	-	-	-
23. Monsarrat Avenue Water System Improvements	Install 16-inch mains and appurtenances along Monsarrat Avenue from 225 feet west of Paki Avenue to Campbell Avenue, along Campbell Avenue from Monsarrat Avenue to Kaunaoa Street - approx. 2,030 lin. ft. Install 12-inch mains and appurtenances along Campbell Avenue from Monsarrat Avenue to Kaunaoa Street - approx. 310 lin. ft. Install 8-inch mains and appurtenances along Monsarrat Avenue from Paki Avenue to Campbell Avenue, and along Kanaina Avenue from Monsarrat Avenue to Kaunaoa Street - approx. 1,740 lin. ft.	CP	Const	-	-	-	-	4,800,000	4,800,000
24. Diamond Head Water System Improvements Part III	Install 12-inch mains and appurtenances along Puu Panini Avenue from 22nd Avenue to Palekaua Street, along Palekaua Street from Puu Panini Avenue to Hakaka Street - approx. 1,100 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Palekaua Place from Palekaua Street to end - approx. 220 lin. ft.	CP	Const	-	-	-	1,800,000	-	1,800,000

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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
25. Water Main Installation & Replacement	Install and replace water mains at various locations.	CP	Const	50,000	-	-	-	-	50,000
26. Water System Improvements at Various Locations	Install mains and appurtenance to replace high risk water mains at various locations throughout the island.	CP	P&E	-	-	-	6,000,000	-	6,000,000
27. Kapolei Parkway 24-Inch R-1 Water Main	Install 24-inch mains and appurtenances along Kapolei Parkway, from near FH No. L04892 to Kamokila Boulevard - approx. 700 lin. ft.	CP	P&E	-	500,000	-	-	-	500,000
28. Service Laterals of Unknown Materials Replacements	Replace service laterals of unknown materials at various locations	WQ	P&E	100,000	-	-	-	-	100,000
29. Water Main Installation & Replacement	Install and replace water mains at various locations.	CP	P&E	50,000	-	-	-	-	50,000
Pipelines Total				200,000	500,000	-	42,700,000	4,800,000	48,200,000
D. Treatment									
30. GAC Interior Corrosion Control at Various Locations	Perform interior corrosion control of selected BWS GAC facilities. CM services funding included for this project.	WSO	Const	1,000,000	-	-	-	-	1,000,000
			P&E	500,000	-	-	-	-	500,000
Treatment Total				1,500,000	-	-	-	-	1,500,000
E. Facilities									
31. Nuuanu Reservoir No. 1 Dam Improvements	Rehabilitate dam, spillway and outlet works; install remote water level monitoring equipment	CP-S	Const	-	-	-	-	-	-
32. Pump Station Instrumentation & Controls and SCADA Upgrade	Upgrade instrumentation and controls equipment at various pump stations and revamp SCADA system to provide smarter functionality.	WSO	Const	-	-	-	1,500,000	-	1,500,000
	Project planning, design, and management services	WSO	P&E	-	-	-	300,000	-	300,000

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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
33. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	CP-S	Const	4,000,000	-	-	-	-	4,000,000
34. 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.	CP-S	Const	-	-	-	-	4,600,000	4,600,000
35. Nuuanu Reservoir No. 2 and 3 - Assessment of Dams' Safety	Evaluate the overall integrity of the dams and identify any safety improvements needed.	LAND	P&E	250,000	-	-	-	-	250,000
36. Kaahumanu Wells Control Valve Renovation	Upgrade control valve assembly and water line connections to more efficiently allow the controlled release of Pearl Harbor 285 system water into the Metropolitan 180 system needed due to the loss of Halawa Shaft because of the Red Hill fuel contamination.	CP	P&E	-	-	-	-	650,000	650,000
37. Manana Wells Control Valve Installation	Install a control valve assembly and water line connections to allow the controlled release of Pearl Harbor 285 system water into the Metropolitan 180 system needed due to the loss of Halawa Shaft because of the Red Hill fuel contamination.	CP	P&E	-	-	-	-	750,000	750,000
38. Pump Station Assessment and Operations/Repairs	Update pump station condition assessments and operations database	WSO	P&E	300,000	-	-	-	-	300,000
39. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	CP-S	P&E	1,250,000	-	-	-	-	1,250,000
40. Monitoring Well Assessment and Repair	Provide well condition assessment and associated repair services for monitor wells.	WR	P&E	50,000	-	-	-	-	50,000
41. Professional Services for BWS Projects	Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	CP	P&E	200,000	-	-	-	-	200,000
Facilities Total				6,050,000	-	-	1,800,000	6,000,000	13,850,000
Total Category II - Renewal and Replacement				13,850,000	500,000	-	60,900,000	25,300,000	100,550,000

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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
III. Capacity Expansion									
A. Pumps									
42. Ewa Shaft Tunnel Improvements	Drill, case, install test pump and sample up to five (5) exploratory wells	CP	Const	-	-	4,000,000	-	-	4,000,000
43. 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	WR	P&E	-	-	450,000	-	-	450,000
44. Hawaii State Hospital Well Test	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.	WR	P&E	-	-	400,000	-	-	400,000
45. Pacific Heights Booster No. 1	Determine land acquisition costs for the site of a new Pacific Heights Booster No. 1 to eliminate cross-country water main between Jack Lane and the Pacific Heights 578 Reservoir.	Land	Land	-	-	100,000	-	-	100,000
Pumps Total				-	-	4,950,000	-	-	4,950,000
B. Reservoirs									
Reservoirs Total				-	-	-	-	-	-
C. Pipelines									
Pipelines Total				-	-	-	-	-	-
D. Treatment									
Treatment Total				-	-	-	-	-	-

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				Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total	
E. Facilities										
46. Kalaeloa Sea Water Desalination Facility	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 Olai Street, along Olai Street from end to Kalaeloa Boulevard, along Kalaeloa Boulevard from Olai Street to the existing 16-inch main near the Northern end of TMK 9-1-031:022- approx. 4,800 lin. ft.	WR	Const	-	-	18,000,000	-	-	18,000,000	
	Provide project management services to monitor DBOM progress, plans review and RFI response.	WR	P&E	-	-	1,000,000	-	-	1,000,000	
Facilities Total				-	-	19,000,000	-	-	19,000,000	
Total Category III - Capacity Expansion				-	-	23,950,000	-	-	23,950,000	
Total Categories I - III				33,849,500	500,000	23,950,000	60,900,000	25,300,000	144,499,500	
Construction Cost Index Adjustment				3,051,825	-	3,300,000	8,190,000	3,585,000	18,126,825	
Contract Adjustment Account				14,950,000	-	6,500,000	-	-	21,450,000	
FY 2023 Capital Improvement Program Total				51,851,325	500,000	33,750,000	69,090,000	28,885,000	184,076,325	

"September 26, 2022

ADOPTION OF
RESOLUTION
NO. 951, 2022,
RESOLUTION OF
APPRECIATION
FOR DEPUTY
MANAGER AND
CHIEF
ENGINEER
ELLEN E.
KITAMURA

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

Chair and Members:

Subject: Adoption of Resolution No. 951, 2022,
Resolution of Appreciation for Deputy Manager and
Chief Engineer Ellen E. Kitamura

Deputy Manager and Chief Engineer Ellen E. Kitamura has recently notified the Board of Directors of her retirement at the end of this month.

We recommend the adoption of Resolution No. 951, 2022, to recognize and thank Ms. Ellen E. Kitamura for her outstanding service, contributions, and dedication to the Board of Water Supply during her 40-years of service to the Board of Water Supply, including her 10-year tenure as its Deputy Manager.

Respectfully Submitted,

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

DISCUSSION:

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

Deputy Manager Ellen Kitamura expressed her appreciation for the recognition. She stated that after serving 40 years she is ready for retirement.

Manager Lau expressed his gratitude to Deputy Manager Kitamura. He stated that Deputy Manager Kitamura supported the BWS through some challenging times and stood by him through it all.

Chair Andaya thanked Deputy Manager Kitamura for all she did for the BWS, the Board, and the City and County of Honolulu. He commented that they were together during the charter amendments which taught him the heart and soul of the department.

Vice Chair Sproat stated that it has been a privilege to serve with Deputy Manager Kitamura. Vice Chair Sproat expressed her appreciation for her service and Aloha and wished her a well-deserved retirement.

MOTION
TO APPROVE

Ray Soon and Max Sword motioned and seconded, respectively, to approve the Adoption of Resolution 951, 2022, Resolution of Appreciation for Deputy Manager and Chief Engineer Ellen E. Kitamura.

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. 951, 2022, RESOLUTION OF APPRECIATION FOR DEPUTY MANAGER AND CHIEF ENGINEER ELLEN E. KITAMURA WAS APPROVED ON SEPTEMBER 26, 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	X		
DAWN B. SZEWCZYK	X		



BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 951, 2022

ELLEN E. KITAMURA

**IN APPRECIATION FOR HER SERVICE AS DEPUTY MANAGER AND CHIEF
ENGINEER OF THE BOARD OF WATER SUPPLY FROM 2012 TO 2022**

WHEREAS, Professional Engineer ELLEN E. KITAMURA was appointed as Board of Water Supply (BWS) Deputy Manager and Chief Engineer in March 2012 to oversee the agency's internal operations, focusing on those divisions that provide water from source to tap to ensure the sustainability of Oahu's water resources and infrastructure, and she has recently notified the Board of her retirement; and

WHEREAS, MS. KITAMURA joined the Department in 1982 as a Civil Engineer I and she rose through the ranks by way of various engineering positions, where she worked on matters such as water master planning, hydraulic analysis, water availability requests, and plans review; as well as managed the development and growth of HONU (Honolulu Online Utilities), the Department's award-winning Geographic Information System enterprise web-based application; and

WHEREAS in her capacity as Deputy Manager and Chief Engineer, ELLEN E. KITAMURA's skills, experience, and knowledge of BWS matters have greatly benefitted this agency, as she has successfully overseen its day-to-day operations, staunchly defended its semi-autonomous governance model, championed initiatives that improve and track efficiency in overall Departmental operations, and helped carry out business and management related policy decisions made by this Board that will impact the BWS's direction and operations for many years to come; and

WHEREAS, MS. KITAMURA's accomplishments, professionalism, integrity, quiet strength, and compassionate leadership have earned the respect and admiration of members of this Board, department employees, her colleagues, and the community, resulting in additional recognition and honor for the Board; and

WHEREAS, ELLEN E. KITAMURA's 40-year BWS career, including her 10-year tenure as its Deputy Manager, is a testament to her commitment to maintain a municipal water system that is safe, dependable, and affordable, as well as worthy of trust from the public it serves; now, therefore

BE IT RESOLVED by the Members of the Board of Water Supply, City and County of Honolulu, that we do hereby express to ELLEN E. KITAMURA our deep appreciation and gratitude for her dedicated service to and leadership of this Department; and

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

BE IT FINALLY RESOLVED that this Resolution be presented to ELLEN E. KITAMURA.

Adopted this 26th day of September 2022
Board of Water Supply, Honolulu, Hawaii



Resolution No. 951, 2022

BRYAN P. ANDAYA
Chair of the Board

"September 26, 2022

ADOPTION OF
RESOLUTION
NO. 952, 2022,
ACCEPTANCE OF
GIFT TO THE
BOARD OF
WATER SUPPLY
FROM THE
HAWAII
COMMUNITY
FOUNDATION TO
ATTEND THE
US WATER
ALLIANCE
ONE WATER
SUMMIT 2022
CONFERENCE

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

Chair and Members:

Subject: Adoption of Resolution No. 952, 2022, Acceptance of Gift to the Board of Water Supply from the Hawaii Community Foundation to Attend the US Water Alliance One Water Summit 2022 Conference

We recommend the adoption of the attached Resolution No. 952, 2022, that accepts the proposed gift to the Board of Water Supply (BWS), City and County of Honolulu, in support of the One Water Honolulu Program for integrated climate change adaptation. The Hawaii Community Foundation (HCF) is providing funding for a BWS representative to attend the US Water Alliance One Water Summit 2022 conference in Milwaukee Wisconsin. The total value is \$2,695.69 for travel, lodging, and registration costs.

The One Water Summit conference brings delegations from One Water programs throughout the United States and will include plenary sessions, skills-building institutes, interactive workshops, mobile tours, and networking opportunities with a focus on sustainable, integrated, and inclusive approaches to managing water, our most precious natural resource.

HCF is a tax exempt Hawaii nonprofit corporation and statewide community foundation whose mission is to inspire generosity, advocate for equity, forge connections and invest in community to create a better Hawai'i. HCF created the CHANGE Framework to facilitate a common way of understanding the most critical issues affecting Hawai'i. HCF's theory of change is that only by acting collectively using a common set of data and shared goals can we effectively solve large-scale issues and create a better Hawai'i now and for future generations. HCF is a trusted community partner throughout the State of Hawai'i with more than 100 years of work helping the people of Hawai'i thrive.

In addition, HCF convened and facilitated the Fresh Water Council who created the Hawaii Fresh Water Blueprint which established a statewide 2030 goal of 100 mgd in resilient water through conservation 40 mgd, reuse 30 mgd and recharge 30 mgd. BWS is a member of the Fresh Water Council and has been supporting and working cooperatively with HCF on the implementation of the 2030 goals.

Respectfully Submitted,

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

DISCUSSION: Ernest Lau, Manager and Chief Engineer, gave the report. There were no comments or discussion.

MOTION TO APPROVE Dawn Szewczyk and Max Sword motioned and seconded, respectively, to approve the Adoption of Resolution 952, 2022, Acceptance of Gift to the Board of Water Supply from the Hawaii Community Foundation to Attend the United States Water Alliance One Water Summit 2022 Conference.

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. 952, 2022, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM HAWAII COMMUNITY FOUNDATION TO ATTEND THE US WATER ALLIANCE ONE WATER SUMMIT 2022 CONFERENCE WAS APPROVED ON SEPTEMBER 26, 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	X		
DAWN B. SZEWCZYK	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 952, 2022

ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY
FROM HAWAII COMMUNITY FOUNDATION IN SUPPORT OF THE
ONE WATER HONOLULU PROGRAM

WHEREAS, Ordinance 20-47 codified in Chapter 2, ROH, established the One Water Panel, a collaboration of City agencies tasked with climate change adaptation. The Board of Water Supply (BWS) is a member of the collaboration called One Water Honolulu and along with the Office of Climate Change, Sustainability and Resiliency provided the foundational planning and support for the establishment of the One Water ordinance and the emerging One Water plan. Climate change and sea level rise impacts to water resources and coastal infrastructure can only be resolved if agencies work together; and

WHEREAS, the Hawaii Community Foundation (HCF) is providing funding for a BWS representative to attend the US Water Alliance One Water Summit 2022 conference in Milwaukee Wisconsin as a learning, knowledge, and networking opportunity with other US One Water programs. The total value is \$2,695.69; and

WHEREAS, the One Water Summit conference brings delegations from One Water programs throughout the United States with a focus on sustainable, integrated, and inclusive approaches to managing water, our most precious natural resource.; and

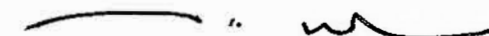
WHEREAS, HCF is a tax exempt Hawaii nonprofit corporation and statewide community foundation whose mission is to inspire generosity, advocate for equity, forge connections and invest in the community to create a better Hawaii; and

WHEREAS, HCF convened and facilitated the Fresh Water Council who created the Hawaii Fresh Water Blueprint which established a statewide 2030 goal of 100 mgd in resilient water through conservation 40 mgd, reuse 30 mgd and recharge 30 mgd. BWS is a member of the Fresh Water Council and has been supporting and working cooperatively with HCF on the implementation of the 2030 goals; 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

BE IT RESOLVED that the Board of Water Supply hereby accepts the gift and directs the Manager and Chief Engineer, or his delegate, to accept and thank HCF for their support.

ADOPTED:



BRYAN P. ANDAYA
Chair

Honolulu, Hawaii
September 26, 2022

ADOPTION OF RESOLUTION NO. 952, 2022, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM THE HAWAII COMMUNITY FOUNDATION TO ATTEND THE US WATER ALLIANCE ONE WATER SUMMIT 2022 CONFERENCE ADOPTED ON SEPTEMBER 26, 2022

	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY G. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		

*September 26, 2022

ADOPTION OF
RESOLUTION
NO. 953, 2022,
ACCEPTANCE
OF GIFT TO
THE BOARD
OF WATER
SUPPLY FROM
THE HAWAII
COMMUNITY
FOUNDATION TO
ATTEND THE
FRESH WATER
COUNCIL
RETREAT

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

Chair and Members:

Subject: Adoption of Resolution No.953, 2022, Acceptance of Gift
to the Board of Water Supply from the Hawaii Community
Foundation to Attend the Fresh Water Council Retreat

We respectfully request the adoption of the attached Resolution No. 953, 2022, that accepts the proposed gift from the Hawaii Community Foundation (HCF) to the Board of Water Supply (BWS), City and County of Honolulu , for a Fresh Water Council retreat at Turtle Bay Resort for two BWS Fresh Water Councilmembers to reconnect in-person post-covid, to discuss priorities and commitment to the Fresh Water Initiative. The total value of the proposed gift is \$1,715.00.

HCF is a tax exempt Hawaii nonprofit corporation and statewide community foundation whose mission is to inspire generosity, advocate for equity, forge connections and invest in community to create a better Hawai'i. HCF created the CHANGE Framework to facilitate a common way of understanding the most critical issues affecting Hawai'i. HCF's theory of change is that only by acting collectively using a common set of data and shared goals can we effectively solve large-scale issues and create a better Hawai'i now and for future generations. HCF is a trusted community partner throughout the State of Hawai'i with more than 100 years of work helping the people of Hawai'i thrive.

In 2013, HCF convened and facilitated the Fresh Water Council of leading statewide water stakeholders who created the Hawaii Fresh Water Blueprint which established a statewide 2030 goal of 100 mgd in resilient water through conservation 40 mgd, reuse 30 mgd and recharge 30 mgd. BWS is a member of the Fresh Water Council and has been supporting and working cooperatively with HCF on the implementation of the 2030 goals.

Respectfully Submitted,

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

DISCUSSION: Ernest Lau, Manager and Chief Engineer, gave the report. There were no comments or discussion.

**MOTION
TO APPROVE**

Max Sword and Na’alehu Anthony motioned and seconded, respectively, to approve the Adoption of Resolution 953, 2022, Acceptance of Gift to the Board of Water Supply from the Hawaii Community Foundation to Attend the Fresh Water Council Retreat.

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 ADOPTION OF RESOLUTION NO. 953, 2022, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM HAWAII COMMUNITY FOUNDATION TO ATTEND THE FRESH WATER COUNCIL RETREAT WAS APPROVED ON SEPTEMBER 26, 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	X		
DAWN B. SZEWCZYK	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 953, 2022

ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY
FROM HAWAII COMMUNITY FOUNDATION IN SUPPORT OF THE
FRESH WATER INITIATIVE

WHEREAS, Hawai'i has been blessed with consistent rainfall, advantageous geology, and high quality drinking water aquifers. Recent findings, however, have raised concern about long-term freshwater security for our Islands. The University of Hawai'i and other scientists have documented troubling trends including reduced rainfall, higher evaporation rates, and declining stream flows in recent decades. These findings, coupled with the demand of an ever-increasing population, suggest that Hawai'i is entering an era of freshwater uncertainty; and

WHEREAS, the Hawaii Community Foundation (HCF) convened and facilitated the Fresh Water Council of leading statewide water stakeholders who created the Hawaii Fresh Water Blueprint which established a statewide 2030 goal of 100 mgd in resilient water through conservation 40 million gallons per day (mgd), reuse 30 mgd and recharge 30 mgd. The Fresh Water Councilmembers have a deep knowledge of water and a collaborative spirit to articulate a vision for a more secure and sustainable water future based on shared values, and shared sacrifice. The Fresh Water Blueprint provides Hawai'i policy and decision-makers with a set of solutions that have broad, multi-sector support in the freshwater community. The Honolulu Board of Water Supply (BWS) is a member of the Fresh Water Council and has been supporting and working cooperatively with HCF on the implementation of the 2030 goals; and

WHEREAS, the HCF is providing funding to attend a Fresh Water Council retreat at Turtle Bay Resort for two BWS Fresh Water Council members to reconnect in-person post-covid, to discuss priorities of and commitment to the Fresh Water Initiative. The total value of the gift is \$1,715.00; and

WHEREAS, HCF is a tax exempt Hawaii nonprofit corporation and statewide community foundation whose mission is to inspire generosity, advocate for equity, forge connections and invest in the community to create a better Hawai'i; 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

BE IT RESOLVED that the Board of Water Supply hereby accepts the gift valued at \$1,715.00 from HCF and directs the Manager and Chief Engineer, or his delegate, to accept and thank HCF for its support.

ADOPTED:



BRYAN P. ANDAYA
Chair

Honolulu, Hawaii
September 26, 2022

ADOPTION OF RESOLUTION NO. 953, 2022, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM THE HAWAII COMMUNITY FOUNDATION TO ATTEND THE FRESH WATER COUNCIL RETREAT ADOPTED ON SEPTEMBER 26, 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	X		
DAWN B. SZEWCZYK	X		

ITEM FOR INFORMATION NO. 2

"September 26, 2022

FISCAL YEAR 2022
CLAIMS MANAGEMENT SUMMARY

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

Chair and Members:

Subject: Fiscal Year 2022 Claims Management Summary

Raelynn Nakabayashi, Executive Assistant I, Executive Support Office,
will provide information on Fiscal Year 2022 Claims Management.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

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

Chair Andaya inquired if it is normal to have large numbers of open
claims.

Ms. Nakabayashi replied that it's normal to have open claims from prior
years. She explained that after an incident or loss, though a claim is filed,
depending on the type of claim, the amount of information that must be
submitted by the claimant can be extensive. This may take a significant
amount of time for them to gather, therefore, extending the time required
to processing the claim.



FISCAL YEAR 2022 CLAIMS MANAGEMENT SUMMARY

Raelynn Nakabayashi

September 26, 2022

boardofwatersupply.com

LEGAL FRAMEWORK - WATER RESEARCH FOUNDATION

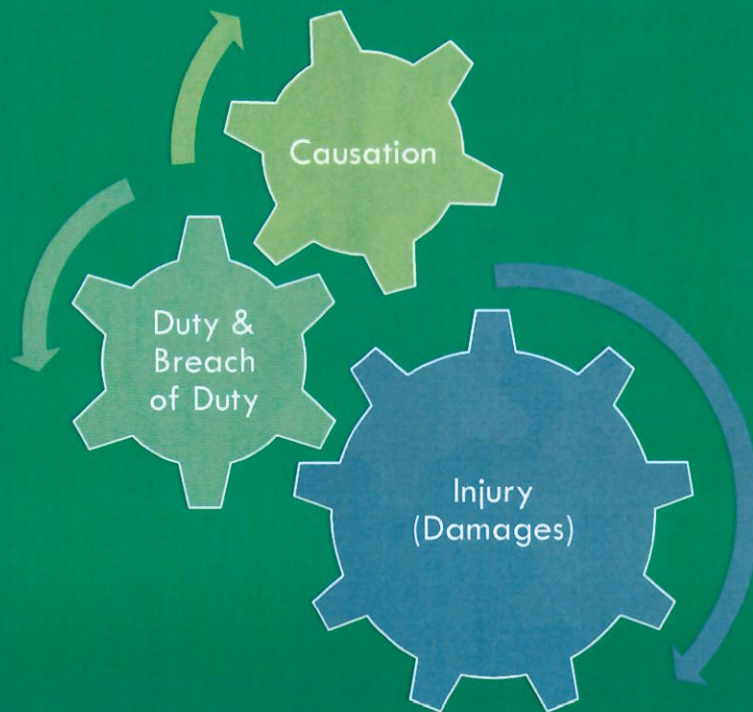
“...Tort law holds a person or entity to a defined and certain standard of care. When other persons or property are injured because of a failure to uphold that standard of care, the result is that the person who failed is held liable.”

...

“The matter of whether a water utility can be held liable for infrastructure failures is unique to the state or province where the utility is located because the standard of care that a utility is held to changes from jurisdiction to jurisdiction.”



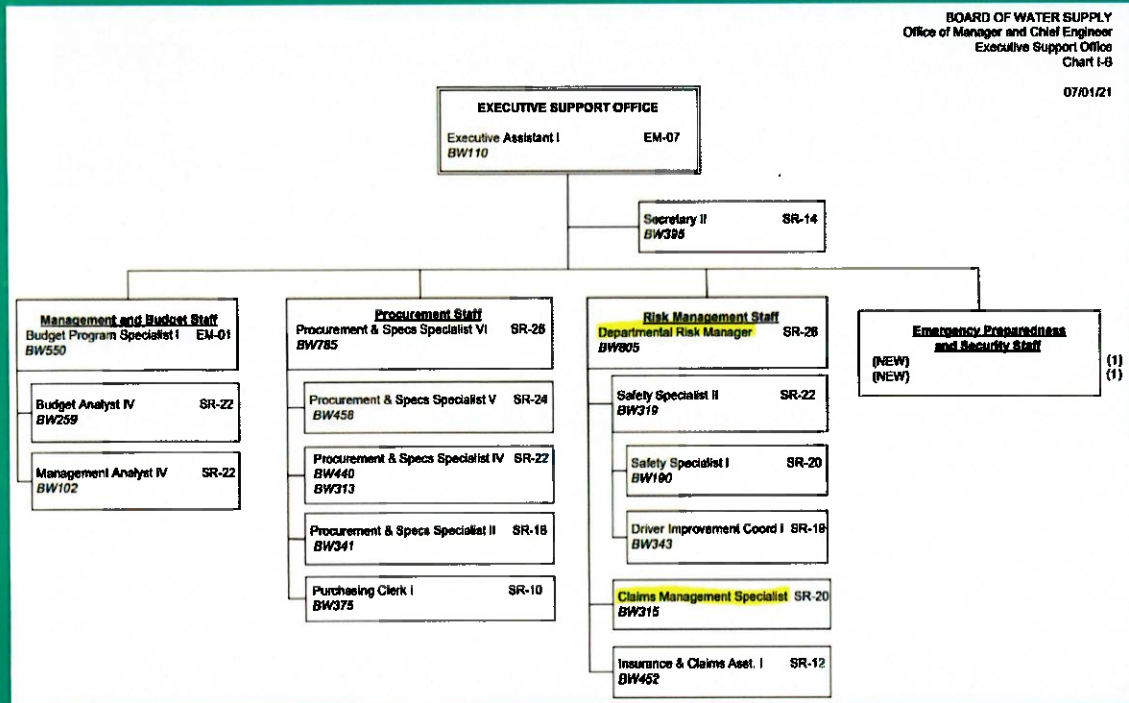
HAWAII CIVIL JURY INSTRUCTIONS



“Plaintiff(s) must prove by a preponderance of the evidence that defendant(s) was/were negligent and that such negligence was a legal cause of plaintiff’s(s’) injuries and/or damages. Plaintiff(s) must also prove the nature and extent of his/her/their injuries and/or damages.”



BOARD OF WATER SUPPLY – RISK MANAGEMENT



**Board of Water Supply
Operating Budget
Fiscal Year 2022**

EBO - Executive Support Office

5110 - Risk Management

Section's Activity

The Risk Management section provides risk management services that ensure the business and operational exposures of the BWS are covered through either insurance or self-retention policies. Oversees the department's workers' compensation program. Additionally, the section ensures the safety and well-being of our employees through a comprehensive safety program and return-to-work program.

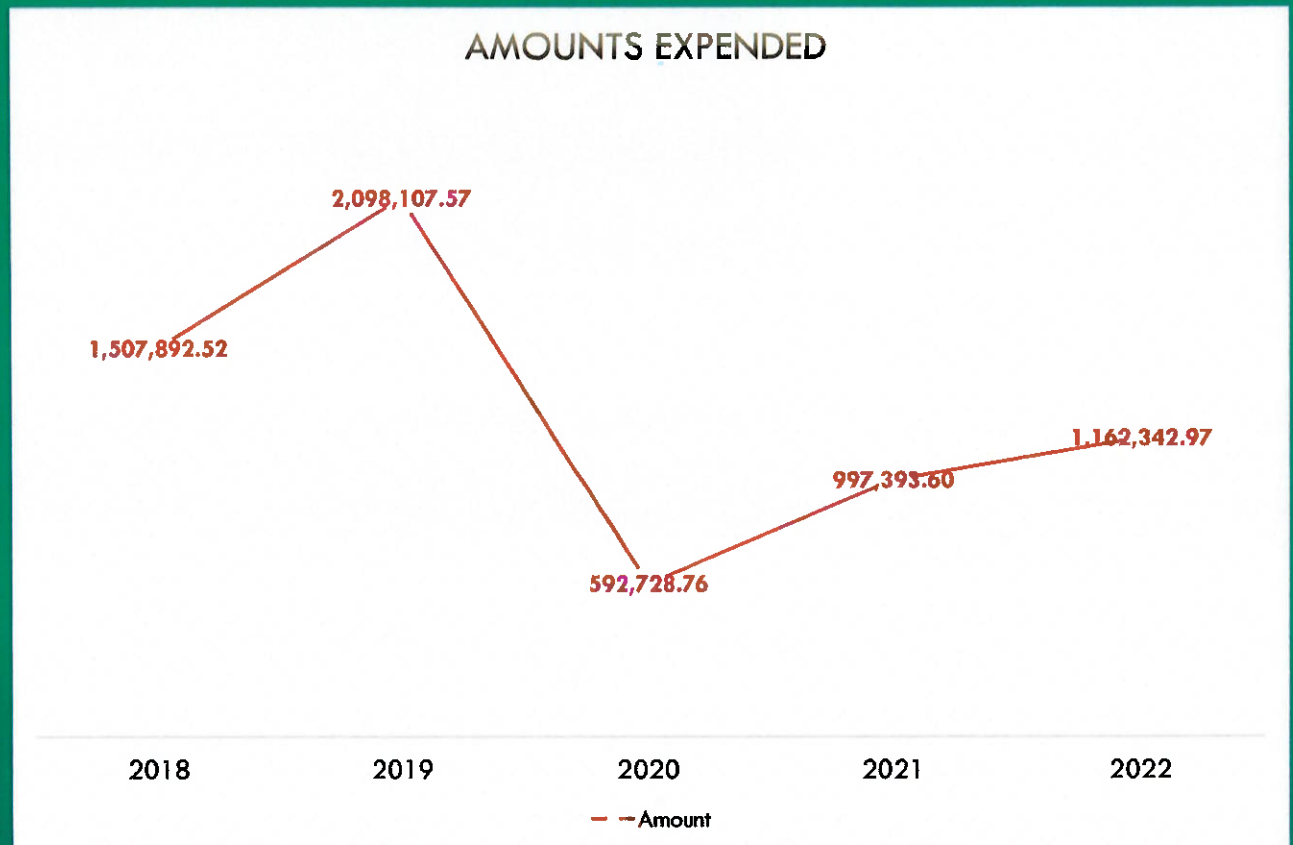
Account	FY2020 Actual	FY2020 Adopted Budget	FY2021 Adopted Budget	FY2022 Proposed Budget	Change
4110 - Salaries & Wages	311,183	327,500	335,400	336,200	800
4120 - Overtime	4,896	5,000	6,950	6,000	(950)
4130 - Miscellaneous (Payroll)	0	0	0	0	0
Personnel Services	318,879	332,500	342,350	342,200	(150)
4160 - Meals, Mileage & Uniform Allowances	381	1,200	1,200	750	(450)
4250 - Other Contractual Services	11,688	3,199	17,899	17,730	(169)
4265 - Printing	44	0	0	0	0
4270 - Professional Services	847,877	1,420,000	1,860,000	1,170,000	120,000
4430 - Miscellaneous Supplies	4,517	6,272	7,300	7,600	300
4480 - Other Materials & Supplies	1,576	0	0	0	0
4600 - Education and Training	2,501	3,000	2,750	2,900	150
4720 - Conference Travel & Expenses	0	20,800	10,000	3,500	(6,500)
4810 - Miscellaneous Fees & Registration	2,404	1,280	1,250	3,650	2,400
5700 - Insurance	751,065	850,000	850,000	1,110,835	260,835
6340 - Workers Compensation Benefits	1,247,185	1,200,000	1,316,000	1,316,000	0
6350 - Claims for PERS Injuries & Prop Damage	682,729	1,000,000	1,250,000	1,000,000	(250,000)
8050 - Equipment (under \$5,000)	4,118	0	0	0	0
Materials, Supplies and Services	3,565,785	4,505,751	4,506,399	4,632,965	126,566
1270 - General Plant & Equip (over \$5,000)	22,074	0	0	0	0
Equipment	22,074	0	0	0	0
Total Risk Management	3,903,738	4,838,251	4,848,749	4,975,165	126,416

Budget Highlights

CLAIMS FOR PERSONAL INJURIES / PROPERTY DAMAGES

(5-YEAR EXPENDITURE HISTORY)

Fiscal Year	Amount
2018	1,507,892.52
2019	2,098,107.57
2020	592,728.76
2021	997,393.60
2022	1,162,342.97



GENERAL LIABILITY* LOSS RUNS

FISCAL YEARS 2018 - 2022

	Total	Closed	Open	Paid
FY2018	104	97	7	356,373.66
FY2019	107	107	0	393,576.11
FY2020	139	139	0	863,562.66
FY2021	85	72	13	831,104.70
FY2022	42	14	28	20,817.82

Does not include Litigated Matters that did not begin with a "Claim"



AUTO* LOSS RUNS

FISCAL YEARS 2018 - 2022

	Total Auto Claims	Closed	Open	Paid
FY2018	28	28	0	23,628.62
FY2019	48	48	0	25,888.25
FY2020	36	35	1	69,051.68
FY2021	23	22	1	56,200.19
FY2022	23	12	11	5,420.40

Does not include Litigated Matters that did not begin with a "Claim"





Mahalo!

BOARD OF WATER SUPPLY

Fiscal Year 2022 Claims Management Summary

Raelynn Nakabayashi

(808) 748-5177, rnakabayashi@hbws.org

boardofwatersupply.com for more information

September 26, 2022

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

ITEM FOR INFORMATION NO. 3

"September 26, 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

Four aquifer index stations were in low groundwater condition for the production month of August 2022. Kaluanui and Waialua are in Caution Status. Kaimuki and Punaluu are in Alert Status. The monthly production average for August 2022 was 150.92 million gallons per day.

The Board of Water Supply rainfall index for the month of August 2022 was 35 percent of normal, with a 5-month moving average of 69 percent. As of September 6, 2022, the Hawaii Drought Monitor shows abnormally dry to extreme drought conditions moving southwest across Oahu. The National Weather Service is forecasting enhanced probabilities for below-normal precipitation through at least November 2022.

Most monitoring wells exhibited relatively stable to decreasing head levels for the month, likely due to the relatively higher overall groundwater production, and the decreased rainfall compared to the prior month. Average monthly production for August 2022 was approximately the same as 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 AUGUST 2022**

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.00
WAILUPE	0.14
AINA KOA	0.00
AINA KOA II	0.73
MANOA I	0.94
PALOLO	1.12
KAIMUKI HIGH	2.12
KAIMUKI LOW	1.64
WILDER	9.18
BERETANIA HIGH	3.92
BERETANIA LOW	3.37
KALIHI HIGH	0.00
KALIHI LOW	5.08
KAPALAMA	1.26
KALIHI SHAFT	8.42
MOANALUA	0.88
HALAWA SHAFT	0.00
KAAMILO	0.59
KALAUAO	9.04
PUNANANI	12.26
KAAHUMANU	0.29
HECO WAI AU	2.26
MANANA	0.24
WELLS SUBTOTAL:	63.48
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTOTAL:	0.17
HONO. SUBTOTAL:	63.65

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.90
WAIMANALO III	0.00
KUOU I	0.97
KUOU II	0.69
KUOU III	0.72
LULUKU	0.82
HAIKU	0.35
IOLEKAA	0.00
KAHALUU	0.66
KAHANA	0.98
PUNALUU I	0.00
PUNALUU II	4.80
PUNALUU III	0.00
KALUANUI	1.68
MAAKUA	0.25
HAUULA	0.24
WELLS SUBTOTAL:	13.07
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.29
WAIHEE TUNNEL	3.78
LULUKU TUNNEL	0.19
HAIKU TUNNEL	0.29
KAHALUU TUNNEL	1.22
GRAVITY SUBTOTAL:	5.96
WIND. SUBTOTAL:	19.03

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.43
OPANA	0.99
WAIALEE I	0.38
WAIALEE II	0.50
HALEIWA	0.00
WAIALUA	2.00
N.SHORE SUBTOTAL:	4.31

STATION	MGD
MILILANI (4)	
MILILANI I	1.76
MILILANI II	0.00
MILILANI III	0.72
MILILANI IV	2.49
MILILANI SUBTOTAL:	4.97

STATION	MGD
WAHIAWA (5)	
WAHIAWA	1.49
WAHIAWA II	1.73
WAHIAWA SUBTOTAL:	3.22

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	0.60
AIEA GULCH 550	0.51
KAONOHI I	1.55
WAIMALU I	0.00
NEWTOWN	1.85
WAI AU	2.02
PEARL CITY I	0.84
PEARL CITY II	1.16
PEARL CITY III	0.27
PEARL CITY SHAFT	0.92
PEARL CITY-HALAWA SUBTOTAL:	9.73

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	2.02
WAIPIO HTS. I	0.00
WAIPIO HTS. II	0.37
WAIPIO HTS. III	1.19
WAIPAHU	6.70
WAIPAHU II	1.98
WAIPAHU III	4.24
WAIPAHU IV	2.51
KUNIA I	4.22
KUNIA II	2.10
KUNIA III	1.33
HOAEAE	6.79
HONOULIULI I	0.00
HONOULIULI II	8.44
MAKAKILO	0.15
WAIPAHU-EWA SUBTOTAL:	42.05

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.11
MAKAHA II	0.00
MAKAHA III	0.19
MAKAHA V	0.53
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.07
WAIANAE I	0.30
WAIANAE II	0.35
WAIANAE III	0.87
WELLS SUBTOTAL:	2.43
WAI A. C&C TUNNEL	1.40
WAI A. PLANT. TUNNELS	0.14
GRAVITY SUBTOTAL:	1.54
WAIANAE SUBTOTAL:	3.96

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.62
BARBERS POINT WELL	1.22
GLOVER TUNNEL NP	0.29
NONPOTABLE TOTAL:	2.13

RECYCLED WATER (JULY 2022)

RECYCLED WATER	MGD
HONOULIULI WRF R-1	7.04
HONOULIULI WRF RO	1.40
RECYCLED TOTAL:	8.44

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

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	143.26
GRAVITY	7.67
POTABLE TOTAL:	150.92
NONPOTABLE	2.13
RECYCLED WATER	8.44
TOTAL WATER:	161.49

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS	A	B	C	DIFF. A-B
	PERMITTED USE/ BWS YLDS	AUG 2022		
1 HONOLULU	83.32	63.48		19.84
2 WINDWARD	25.02	19.03		5.99
3 NORTH SHORE	4.70	4.31		0.39
4 MILILANI	7.53	4.97		2.56
5 WAHIAWA	4.27	3.22		1.05
6 PEARL CITY-HALAWA	12.25	9.73		2.52
7 WAIPAHU-EWA	50.63	42.05		8.58
8 WAIANAE	4.34	3.96		0.38
TOTAL:	192.06	150.75		41.30

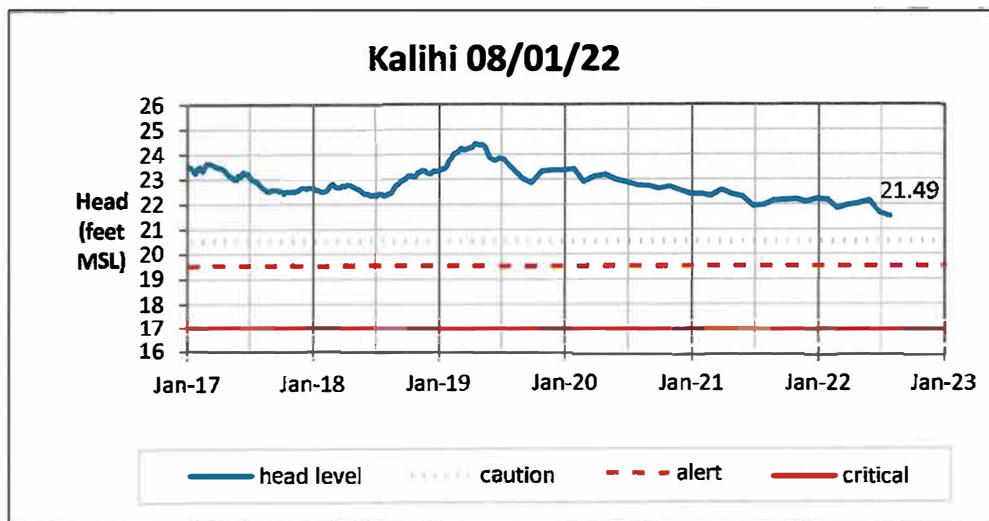
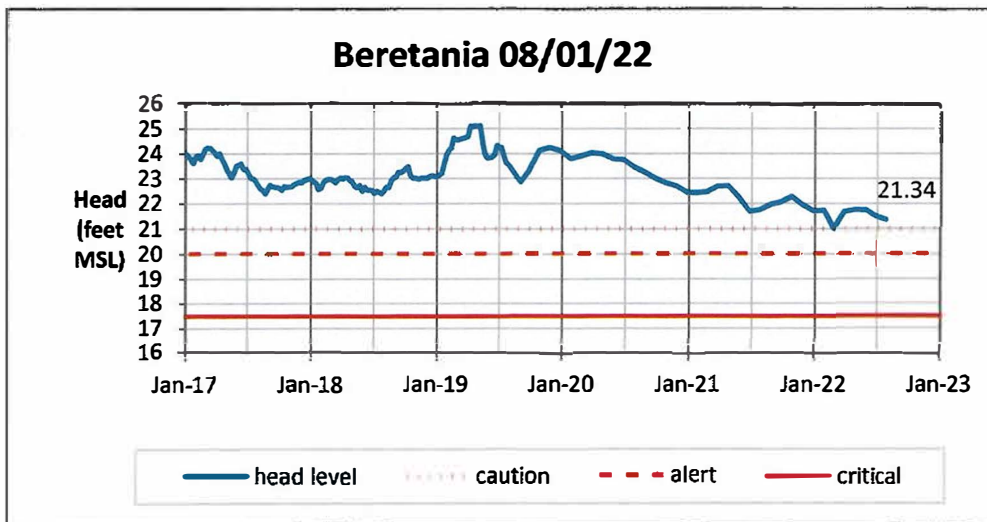
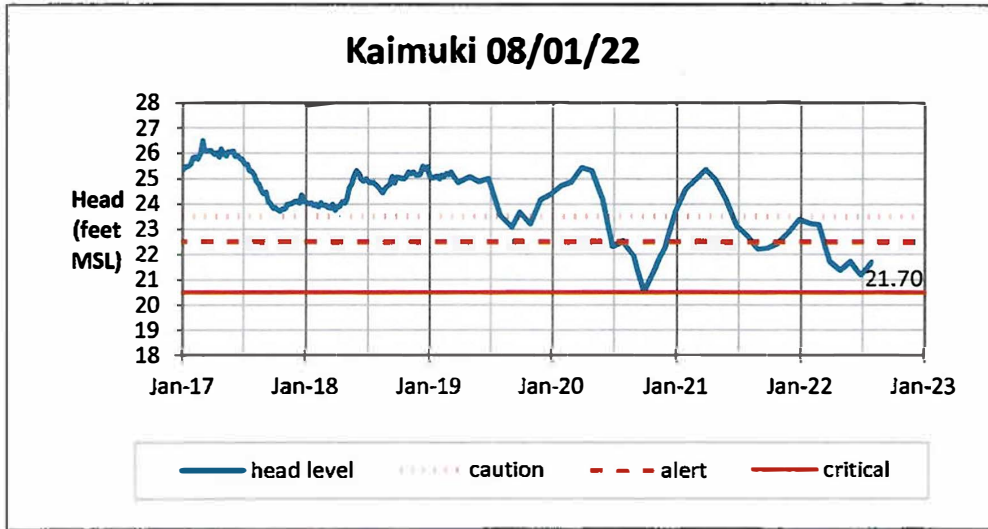
CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS	A	B	C	DIFF. A-B
	PERMITTED USE	AUG 2022		
7 WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.22		-0.22
TOTAL:	1.00	1.22		-0.22

EFFECTIVE WATER DEMAND PER DISTRICT

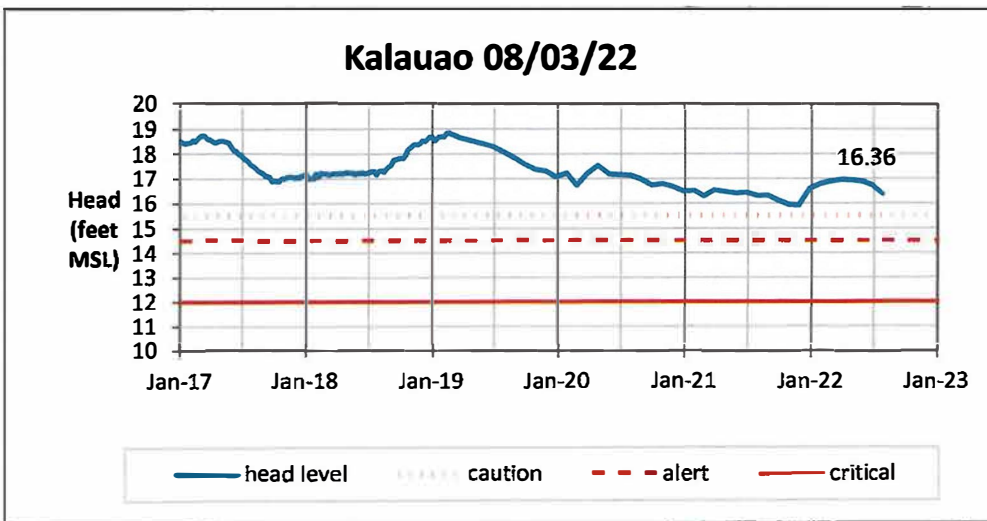
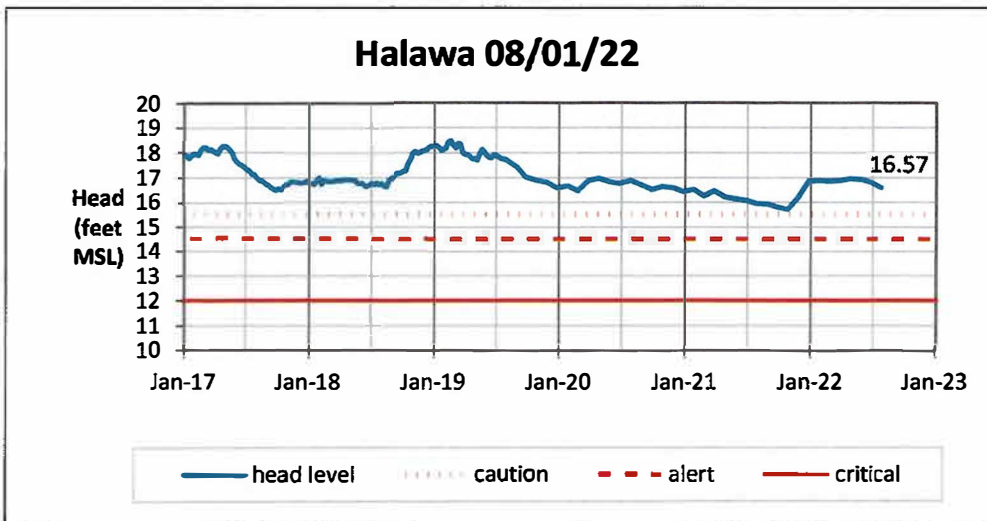
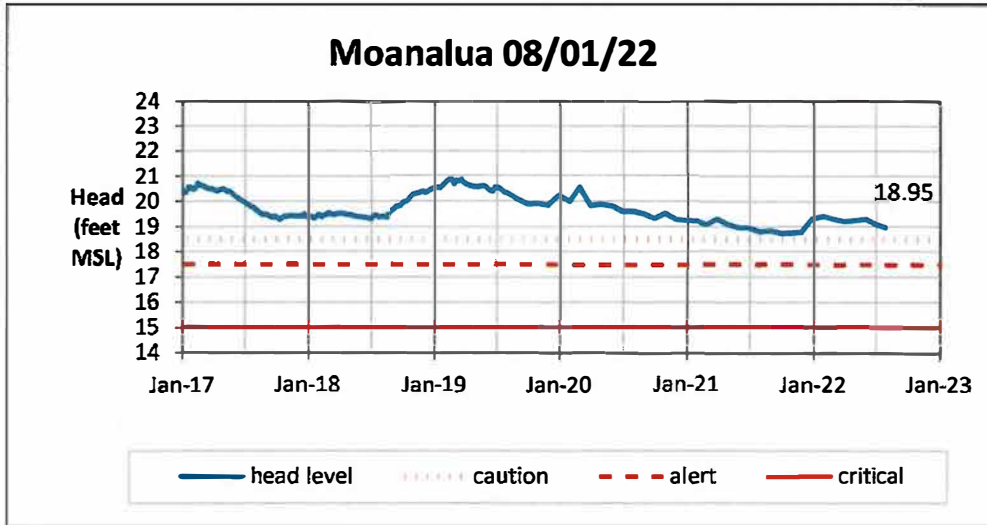
IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	1.07
7	8	BARBERS PT LB	6.31

WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	63.65	1.07	-	64.72
2	WINDWARD	19.03	-	1.07	17.96
3	NORTH SHORE	4.31	-	-	4.31
4	MILILANI	4.97	-	-	4.97
5	WAHIAWA	3.22	-	-	3.22
6	PEARL CITY-HALAWA	9.73	-	-	9.73
7	WAIPAHU-EWA	42.05	-	6.31	35.74
8	WAIANAE	3.96	6.31	-	10.27
TOTAL:		150.92	7.38	7.38	150.92

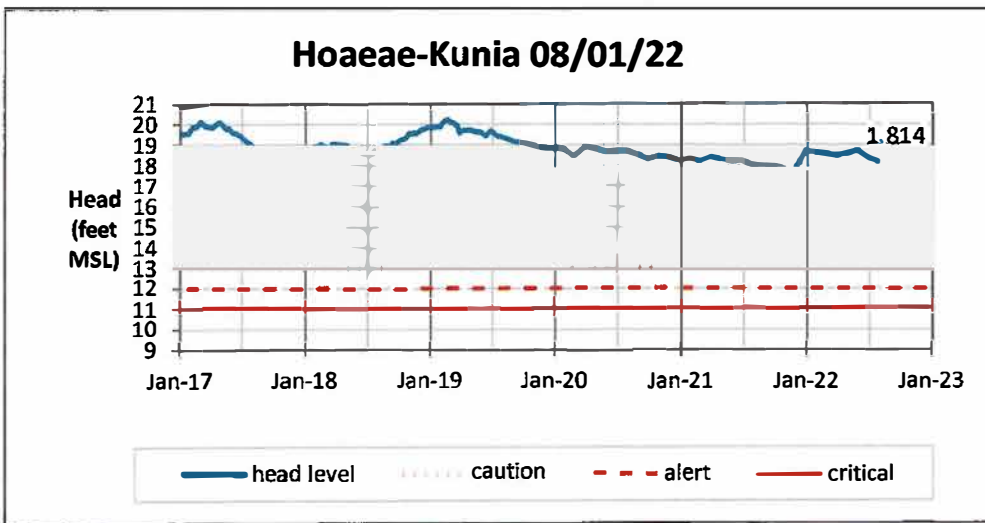
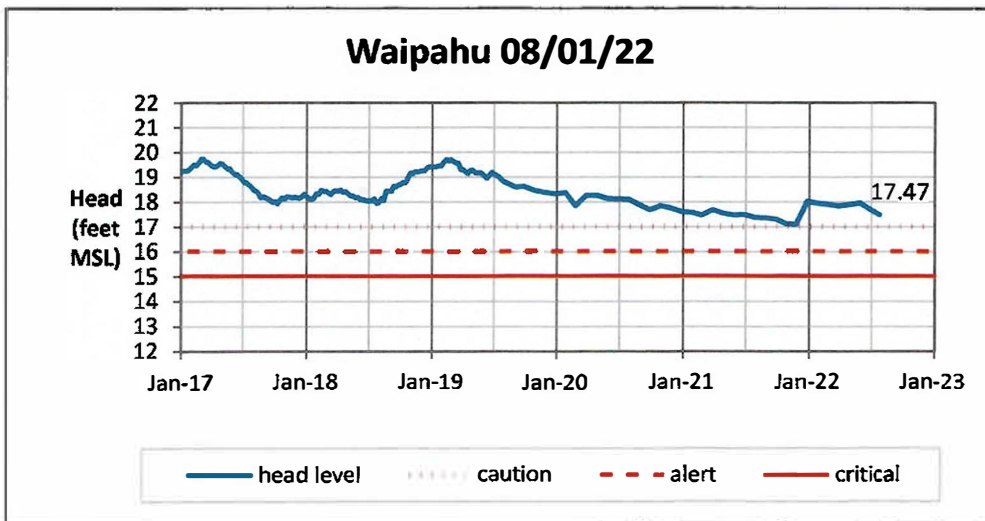
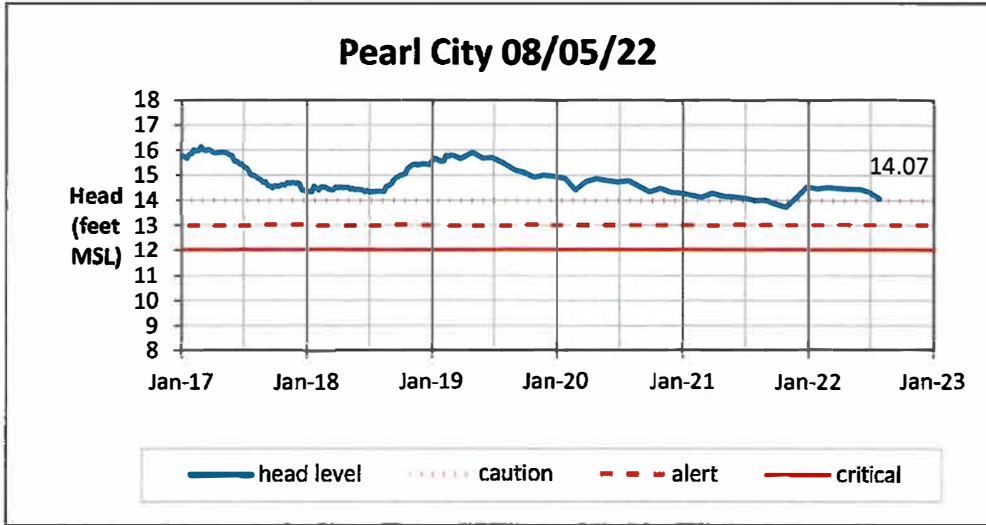
Head Report



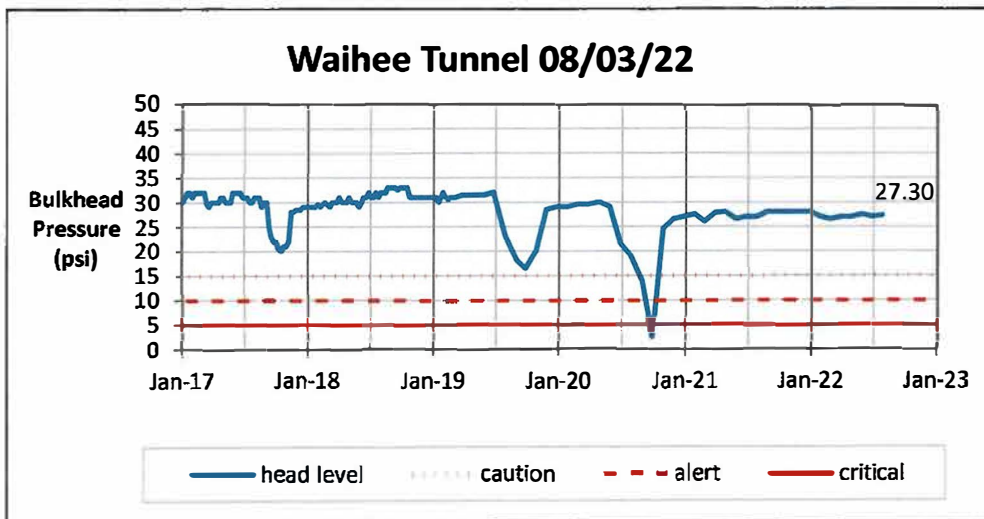
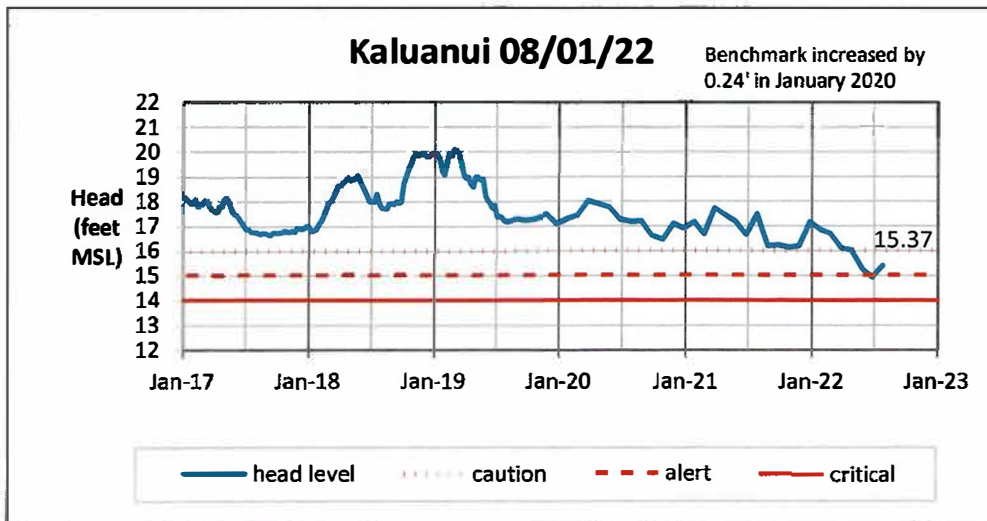
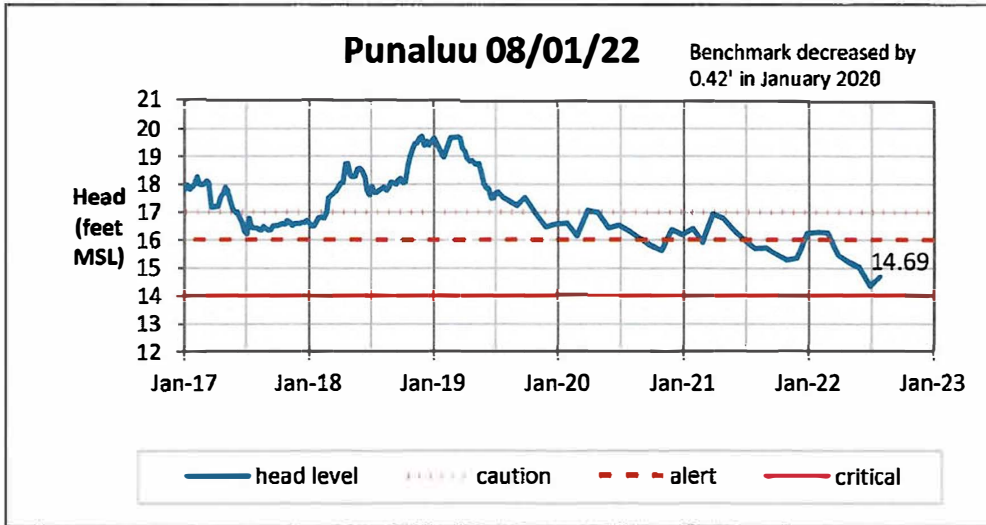
Head Report



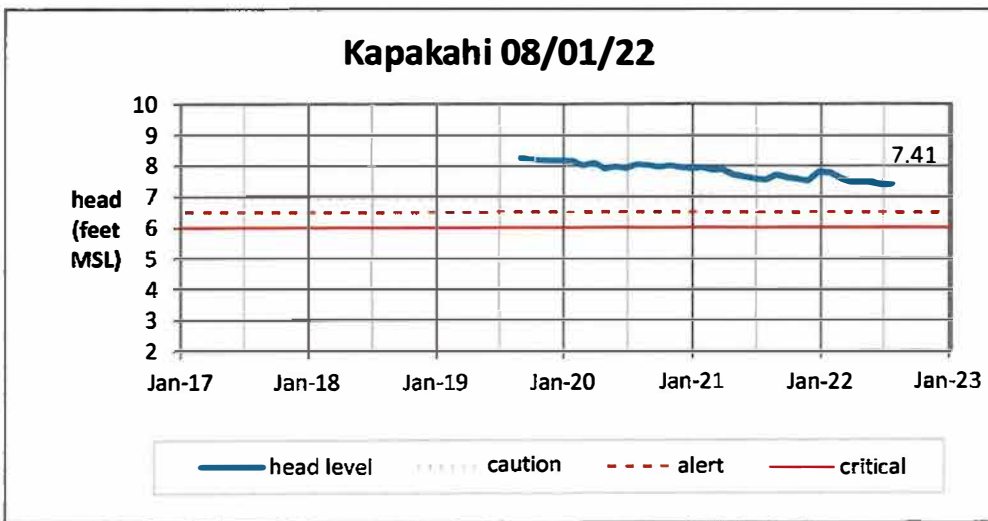
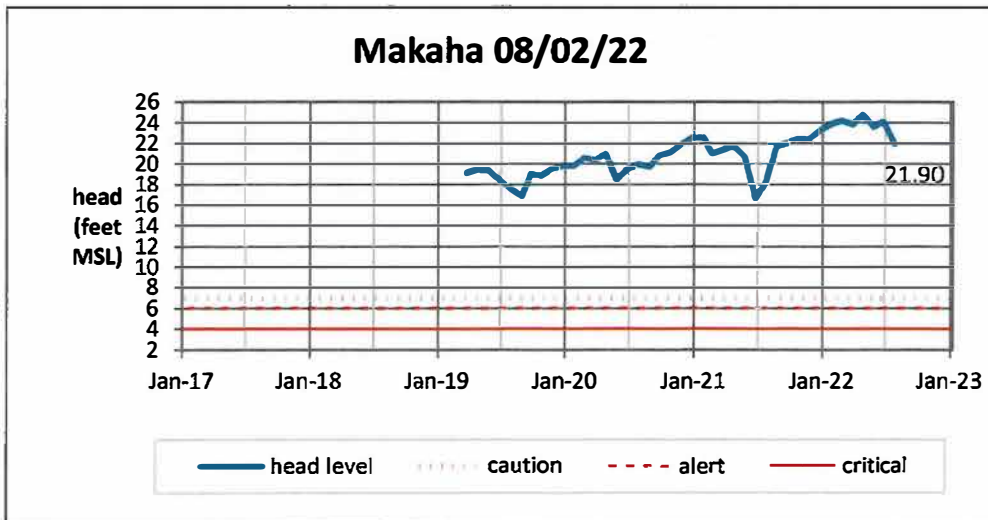
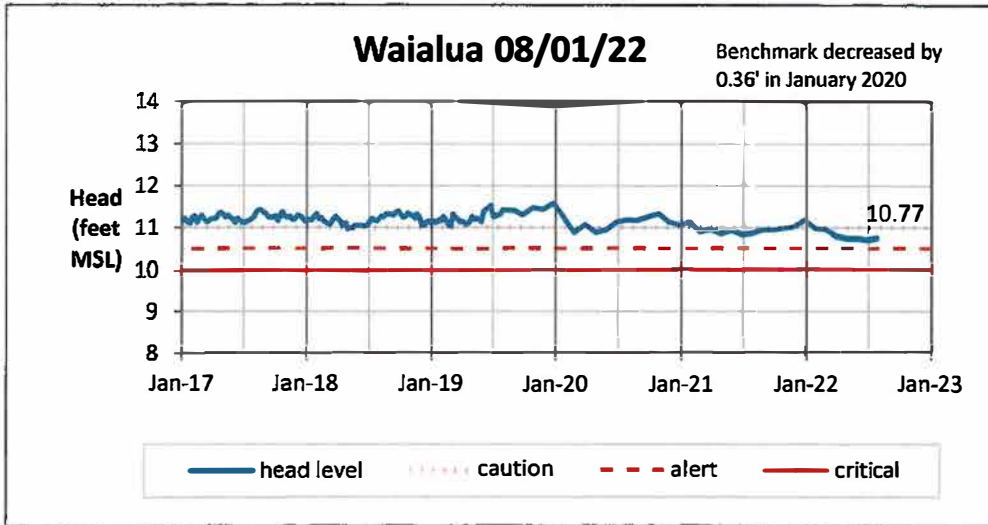
Head Report

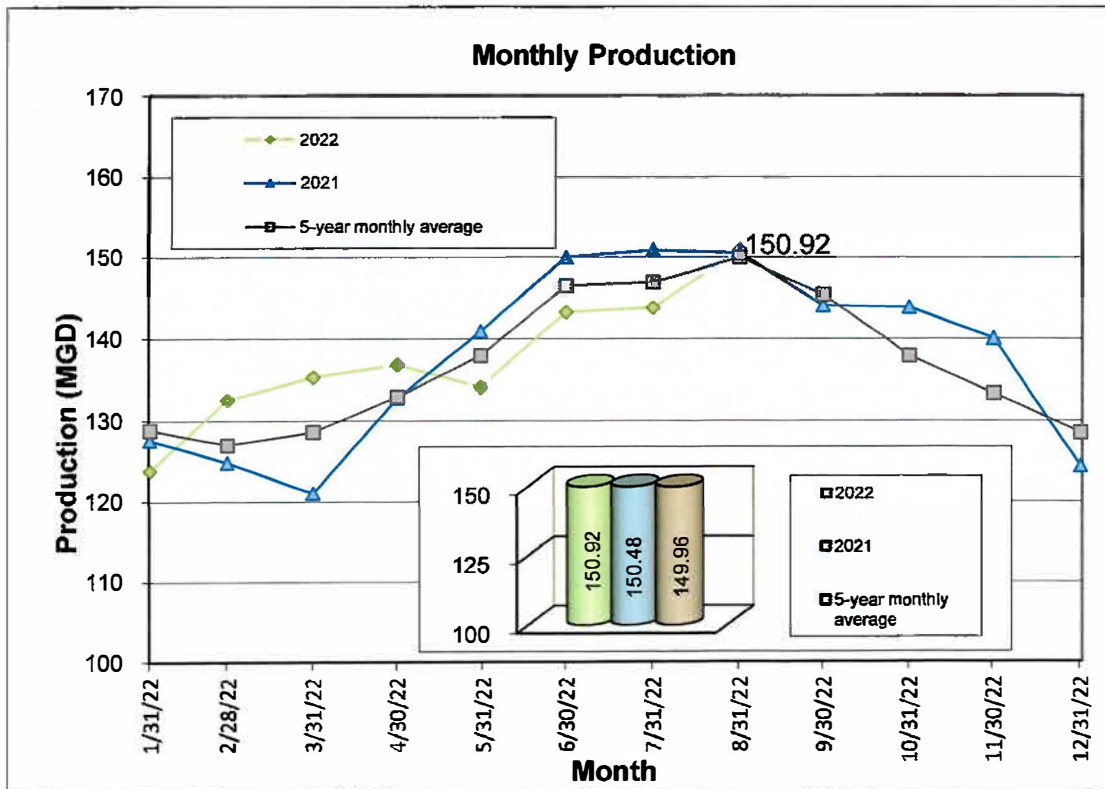
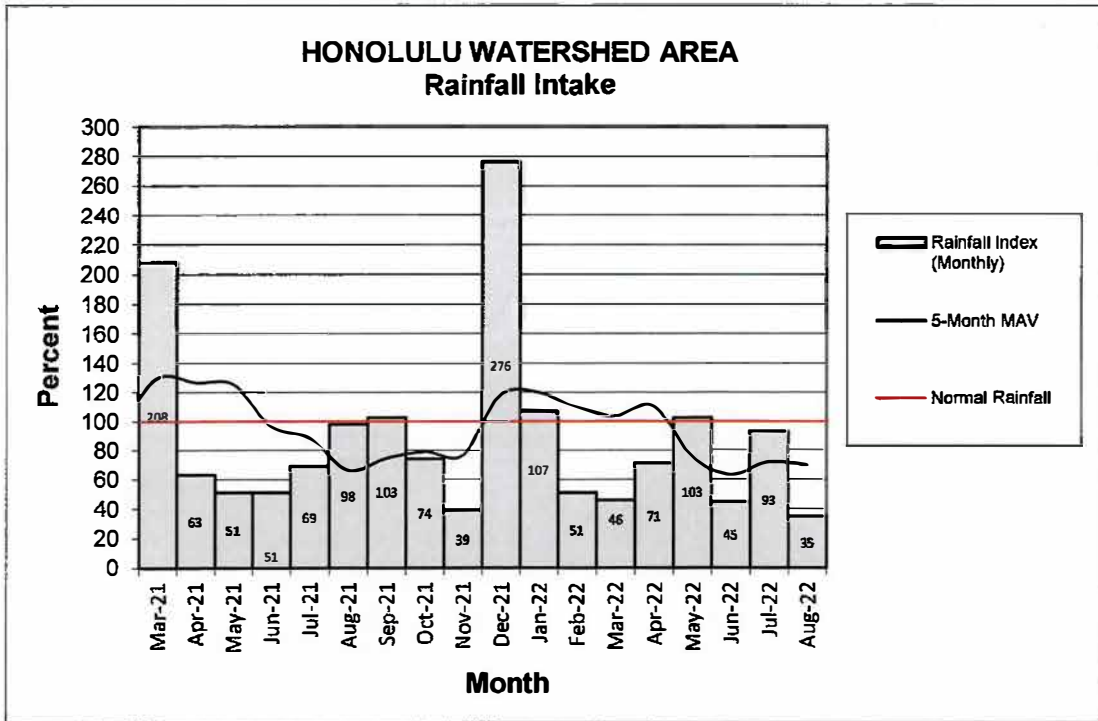


Head Report



Head Report





ITEM FOR INFORMATION NO. 4

"September 26, 2022

WATER MAIN
REPAIR
REPORT FOR
AUGUST 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 August 2022

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

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

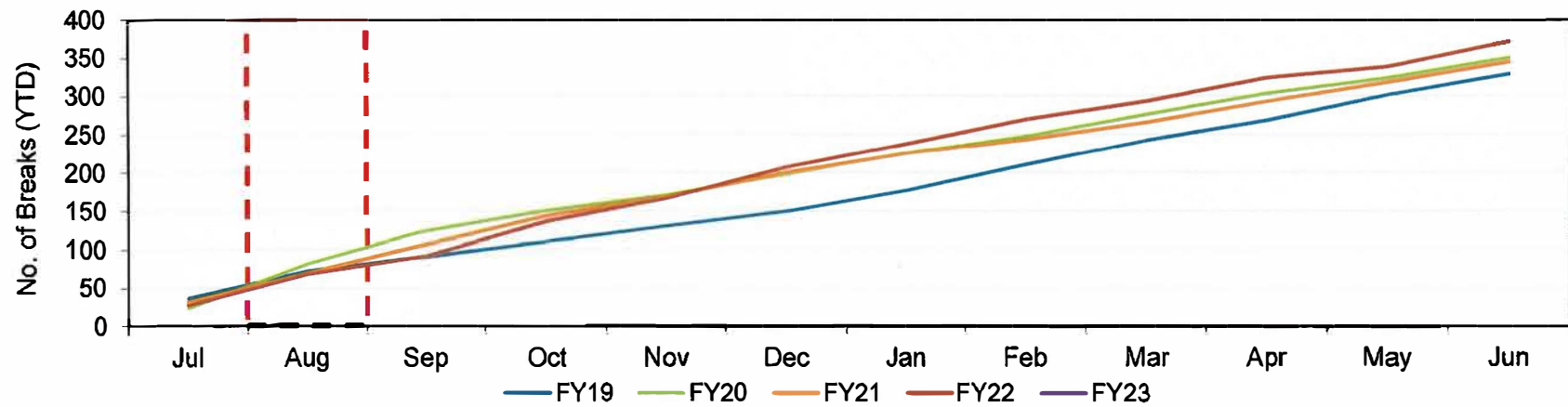
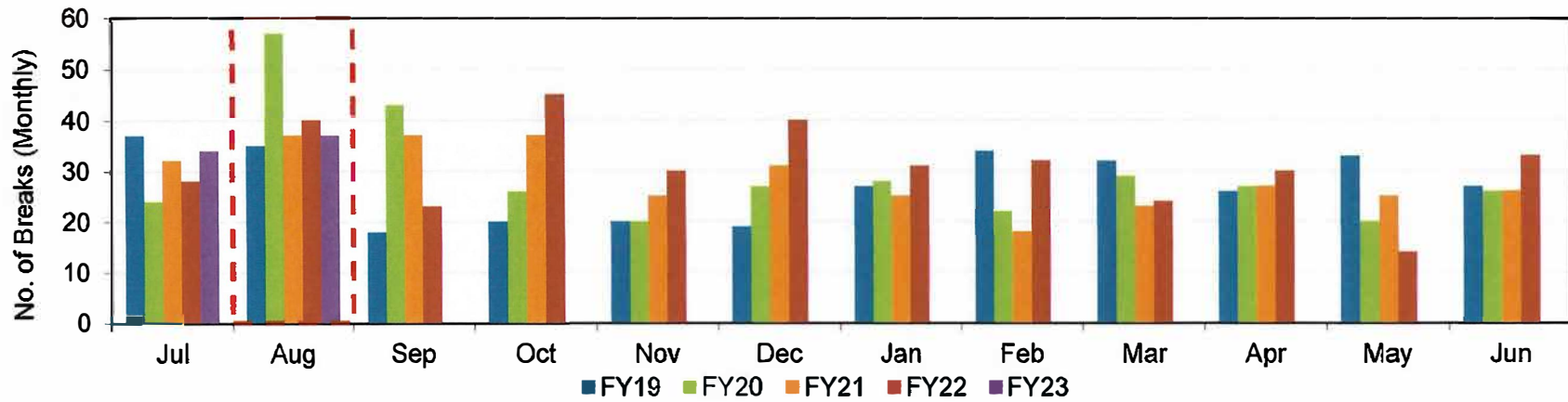
DISCUSSION:

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

**WATER MAIN REPAIR REPORT
for August 2022**

Monthly Main Breaks

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2023	34	37											71
2022	28	40	23	45	30	40	31	32	24	30	14	33	370
2021	32	37	37	37	25	31	25	18	23	27	25	26	343
2020	24	57	43	26	20	27	28	22	29	27	20	26	349
2019	37	35	18	20	20	19	27	34	32	26	33	27	328

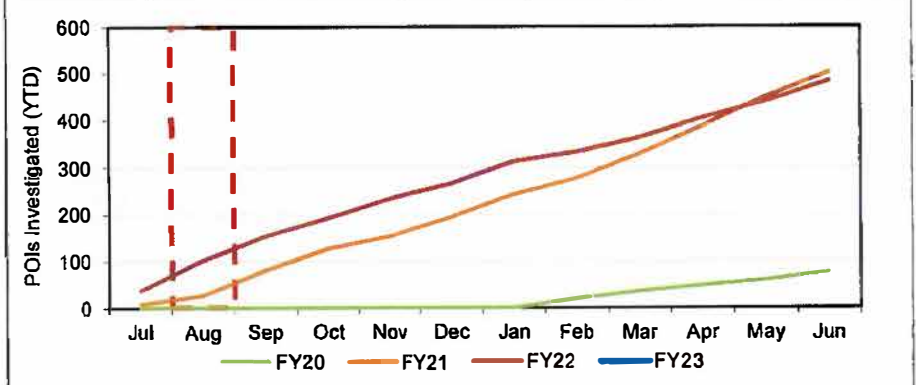
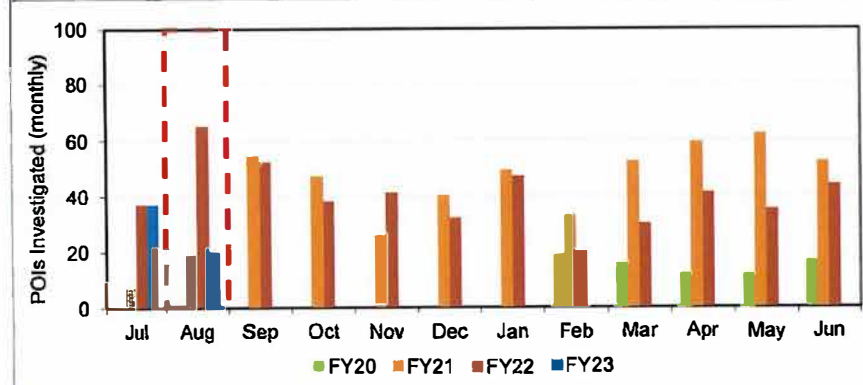


Date	Address	Size (In)	Pipe Type	Date	Address	Size (In)	Pipe Type
8/1/2022	66-1009 Kaukonahua Rd, Waialua	12	AC	8/24/2022	92-977 Makakilo Dr, Kapolei	8	CI
8/1/2022	2098 Makiki Hts Dr, Honolulu	8	CI	8/25/2022	875 Auloa Rd, Kailua	12	CI
8/2/2022	2101 Makiki Hts Dr, Honolulu	8	CI	8/26/2022	1383 Halekoa Dr, Honolulu	6	CI
8/4/2022	2851 Oahu Ave, Honolulu	6	CI	8/26/2022	94-159 Waikele Rd, Waipahu	8	CI
8/4/2022	3116 Alike Ave, Honolulu	8	PVC	8/28/2022	2610 Waiwai Lp, Honolulu	8	DI
8/4/2022	50 Dowsett Ave, Honolulu	8	PVC	8/29/2022	7451 Hawaii Kai Dr, Honolulu	24	CC
8/5/2022	715 Hoomoana St, Pearl City	8	CI	8/31/2022	47-501 Ahilama Rd, Kahaluu	8	AC
8/5/2022	1463 Ala Iolani St, Honolulu,	8	PVC				
8/6/2022	99-797 Nahiolea St, Aiea	8	CI				
8/7/2022	174 Rose St, Wahiawa	6	CI				
8/8/2022	3255 Pali Hwy, Honolulu	8	CI				
8/9/2022	86-239 Kawili St, Waianae	8	PVC				
8/9/2022	3850 Sierra Dr, Honolulu	8	CI				
8/10/2022	66-960 Kuewa Dr, Waialua	6	CI				
8/11/2022	1851 Palamoi St, Pearl City	8	CI				
8/12/2022	5052 Kilauea Ave, Honolulu	12	CI				
8/13/2022	5 Alakawa St, Honolulu	16	CI				
8/13/2022	2205 Aulii St, Honolulu	6	CI				
8/15/2022	47-641 Melekula Rd, Kaneohe	6	CI				
8/15/2022	1415 Ihiloa Loop, Honolulu	4	CI				
8/17/2022	42 N School St, Honolulu	8	CI				
8/17/2022	1421 Ihiloa Loop, Honolulu	4	CI				
8/17/2022	3811 Leahi Ave, Honolulu	8	CI				
8/18/2022	84-287 Holt St, Waianae	8	PVC				
8/18/2022	717 Kihapai Pl, Kailua	8	CI				
8/19/2022	98-1051 Alania St, Aiea	8	CI				
8/20/2022	1321 Konia St, Honolulu	8	CI				
8/20/2022	47-795 Malumalu Pl, Kaneohe	16	CI				
8/22/2022	2323 East Manoa Rd, Honolulu	4	CI				
8/22/2022	Hoomaluhia Private Rd, Kaneohe	16	CI				

**LEAK DETECTION
for August 2022**

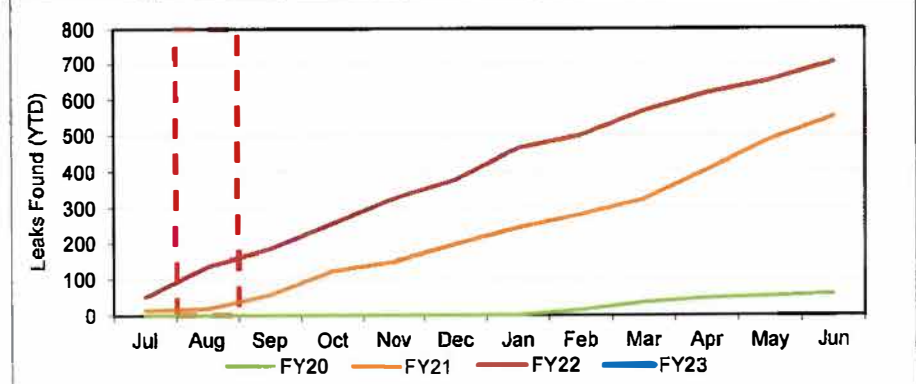
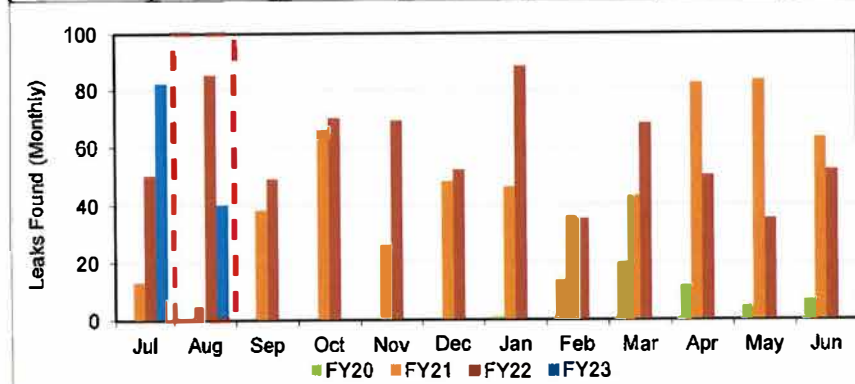
POIs Investigated

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2023	37	20											57
2022	37	65	52	38	41	32	47	20	30	41	35	44	482
2021	7	19	54	47	26	40	49	33	52	59	62	52	500
2020							0	19	16	12	12	17	76



Leaks Found

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2023	82	40											122
2022	50	85	49	70	69	52	88	35	68	50	35	52	703
2021	13	5	38	66	26	48	46	36	43	82	83	63	549
2020							1	14	20	12	5	7	59



**MOTION TO
RECESS INTO
EXECUTIVE
SESSION**

There being no further business Chair Andaya at 3:42 PM called for a motion to adjourn the Open Session. Kapua Sproat so moved; seconded by Max Sword and unanimously carried.

Upon unanimous approved motion, the Board recessed into Executive Session Pursuant to [HRS § 92-5 (a)(4)] at 3:43 PM to Consider Issues Pertaining to Matters Posted for Discussion at an Executive Session.

**OPEN
SESSION**

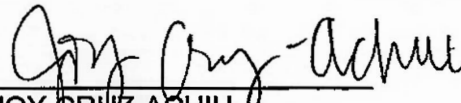
The Board reconvened in Open Session at 4:12 PM.

**MOTION TO
ADJOURN**

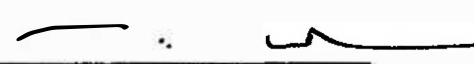
There being no further business Chair Andaya at 4:13 PM called for a motion to adjourn the Regular Session. Max Sword so moved; seconded by Ray Soon and unanimously carried.

The minutes of the Regular Meeting held on September 26, 2022, are respectfully submitted,

THE MINUTES OF THE PUBLIC HEARING AND REGULAR MEETING HELD ON SEPTEMBER 26, 2022 WERE APPROVED AT THE OCTOBER 24, 2022 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO			ABSTAIN
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		


JOY CRUZ-ACHUI

APPROVED:


BRYAN P. ANDAYA
Chair of the Board
OCT 24 2022

Date