

BOARD OF WATER SUPPLY

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



May 16, 2023

RICK BLANGIARDI, MAYOR

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

EDWIN H. SNIFFEN, Ex-Officio
WARREN K. MAMIZUKA, Acting Ex-Officio

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

ERWIN M. KAWATA
Deputy Manager

NOTICE

The Board of Water Supply, City and County of Honolulu, Public Hearing and Regular Meeting will be held on Monday, May 22, 2023, at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843.

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

TESTIMONY

Testimony may be submitted as follows:

- Written testimony should include the submitter's address, email address, and phone number. Testimony should be received by Monday, May 22, 2023, at noon. Submit written testimony by:
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The agenda for May 22, 2023, Public Hearing and Regular Meeting of the Board of Water Supply is as follows:

PUBLIC HEARING

1. Proposed Fiscal Year 2023-2024 Operating and Capital Improvement Program Budget for the Board of Water Supply

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Public Hearing and Regular Meeting Held on April 24, 2023
2. Approval of the Minutes of the Budget Workshop Meeting Held on May 15, 2023
3. Adoption of Resolution No. 965, 2023, Acceptance of Gift to the Board of Water Supply from Hawaiian Earth Products, in Support of the 2023 Annual Halawa Xeriscape Garden Open House and Unthirsty Plant Sale
4. Adoption of Resolution No. 966, 2023, Adopting the Operating and Capital Improvement Program Budget for the Fiscal Year 2023-2024 and Appropriating Funds Therefor

ITEMS FOR INFORMATION

1. Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination
2. Capital Improvement Program Quarterly Update
3. Status Update of Groundwater Levels at All Index Stations
4. Water Main Repair Report for April 2023

EXECUTIVE SESSION

1. Approval of the Minutes of the Executive Session Held on April 24, 2023
2. To Consult with the Board's Attorney on Questions and Issues Pertaining to the Board's Powers, Duties, Privileges, Immunities, and Liabilities Pertaining to Claims Against the Navy Related to Matters Concerning the Red Hill Bulk Fuel Storage Facility [HRS §92-5(a)(4)]
3. To Consider the Evaluation of the Manager and Chief Engineer, Where Consideration of Matters Affecting Privacy Will be Involved [HRS §92-5(a)(2)]

MINUTES

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

May 22, 2023

At 2:00 PM on May 22, 2023, in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, Board Chair Andaya called to order the Public Hearing and Regular Meeting.

Present: Bryan P. Andaya, Chair
Max J. Sword, Board Member
Na'alehu Anthony, Board Member
Jonathan Kaneshiro, Board Member
Edwin H. Sniffen, Board Member, Ex-Officio via
Warren K. Mamizuka, Ex-Officio

Also Present: Ernest Lau, Manager and Chief Engineer
Erwin Kawata, Deputy Manager and Chief Engineer
Jadine Urasaki, Assistant Program Administrator,
Capital Projects Division
Jennifer Elflein, Program Administrator,
Customer Care Division via Vimeo
Kathleen Elliott-Pahinui, Information Officer,
Communications Office
via In-Person and Vimeo
Raelynn Nakabayashi, Executive Assistant I,
Executive Support Office
Jason Nikaido, Program Administrator,
Field Operations Division
Joseph Cooper, Waterworks Controller,
Finance Division
via Vimeo and Zoom
Michele Thomas, Executive Assistant I,
Human Resources Office via Vimeo
Henderson Nuuhiwa, Program Administrator,
Program Administrator, Information
Technology Division via Vimeo
Michael Matsuo, Land Administrator, Land Division
via Vimeo
Barry Usagawa, Program Administrator,
Water Resources Division
Kevin Ihu, Program Administrator,
Water System Operations Division
via Vimeo
Joyce Lin, Civil Engineer IV,
Office of the Managers and
Chief Engineer
via In-person and Vimeo

Kathy Mitchell, Administrative Services Officer
via Vimeo

Kimberly Kuwaye, Manager Secretary

Joy Cruz-Achiu, Board Secretary

Steven Norstrom, Information Specialist II,
Communications Office

Stella Bernardo, Information Specialist II,
Communications Office via Zoom

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

Wayne Maria, Information Specialist II,
Communications Office

Others Present:

Jeff Lau, Deputy Corporation Counsel
via Zoom

Jessica Wong, Deputy Corporation Counsel
via Zoom

Absent:

Kapua Sproat, Vice Chair

Chair Bryan Andaya welcomed everyone to the May 22, 2023, Public Hearing and Regular Meeting of the Board of Water Supply (BWS). Chair Andaya announced that a Public Hearing would be held first, followed by the Regular Meeting of the Honolulu Board of Water Supply (BWS).

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

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

Chair Andaya requested a roll call for the Regular Meeting and asked those participating remotely to keep their cameras on during the meeting to comply and meet quorum guidelines. Chair Andaya asked each Board Member to respond verbally and state who is present in the room if participating via Zoom when their names were called.

Board Secretary Ms. Joy Cruz-Achui assisted Chair Andaya with roll call: Board Member Max Sword, aye and present in the Board room; Board Member Na'alehu Anthony, aye and present in the Board room; Board Member Jonathan Kaneshiro, aye and present in the Board room; Board Member Edwin Sniffen was present via Zoom and disclosed that he was alone at his location; and Board Member Warren Mamizuka was present via Zoom and disclosed that he was alone at his location. Chair Andaya was present in the Boardroom.

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

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

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, May 22, 2023, at noon. However, late testimony will be accepted by email, fax, or mail. Videoconference testimony was accepted by registering at boardofwatersupply.com/testimony by Friday, May 19, 2023. In-person testimony is being accepted at the Board of Water Supply, Public Service Building located at 630 S. Beretania St., Honolulu, HI 96843. Pursuant to HRS Section 92-7.5, Board Meeting materials are available to view on our website at www.boardofwatersupply.com/boardmeeting.

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

PUBLIC HEARING

Chair Bryan Andaya stated that the Board of Water Supply is dedicated to providing safe, dependable, and affordable water supply now and into the future.

Manager Lau thanked Chair Andaya and introduced Ms. Raelynn Nakabayashi, Executive Assistant I, Executive Support Office, to present the Fiscal Year 2023-2024 Operating and Capital Improvement (CIP) Budget. Also presenting are Ms. Jadine Urasaki, Acting Program Administrator, Capital Projects Division, and Mr. Barry Usagawa, Program Administrator, Water Resources Division.

Ms. Raelynn Nakabayashi stated that as the BWS weathers uncertain times due to the Red Hill Bulk Fuel Storage Facility contamination, a slowing local economy, and national and international economic instability, the BWS Fiscal Year 2024 Operating and Capital Improvement Program budgets are lean and remain focused on the BWS's mission of providing safe, dependable, and affordable water supply now and into the future.

Ms. Nakabayashi presented the Operating and CIP budgets, highlighting the changes in the Operating and CIP budgets from previous fiscal years, the proposed Operating Fund Resources and Expenditures, and anticipated revenue projections.

Manager Lau stated that the BWS proposed Fiscal Year 2024 budget was built lean due to the limitations on revenues generated since the last rate schedule was adopted in 2018. The last rate increase, prior to the effective date of this Fiscal Year 2024 Budget, was in July 2022. There is not anticipated to be a new rate schedule, and therefore rate increases until at least January 2023 or mid-way through Fiscal Year 2024. He introduced Ms. Jadine Urasaki to present the CIP.

Ms. Jadine Urasaki stated that the Annual Capital Improvement Program is the BWS's commitment to the future of the water system. The Capital Projects Division compiles the annual CIP budget and includes projects from all Divisions and Staff Offices. The Capital Improvement Program supports the Department's vision and mission and is aligned with 1) the Water Master Plan; 2) the Department's Strategic Plan; 3) the Department's goals and objectives in support of these plans, and 4) the 6-year Capital Improvement Program. The Capital Improvement Program carefully balances the system's needs in providing safe, reliable water service with cost-effective management of assets and funding. The CIP is comprised of three project categories: Research and Development, Renewal and Replacement, and Capacity Expansion.

Ms. Nakabayashi shared that the three project categories mentioned by Ms. Urasaki are funded with different sources: Operating Fund, State Revolving Fund, Special Expendable Fund, Improvement Fund, and Extramural Fund. She explained that the Extramural Fund is funding granted to the BWS from an outside source, and the use of such funds is governed by agreement and intended for a specific purpose. Ms. Nakabayashi shared the various projects funded with the Extramural Fund in Fiscal Year 2024 and the source of those grants or agreements.

Manager Lau acknowledged the State Legislature and the Senate for allocating \$10 million (M) for the construction of exploratory and monitoring wells in response to the Red Hill crisis, the Congressional Delegation for advocating for Federal Funding for community projects, and the Mayor and Honolulu City Council for allocating an additional \$25.3M to the BWS. He explained that the BWS would not be obligated to repay the funds granted.


Ms. Urasaki continued by sharing the BWS Fiscal Year 2024 design and construction programs around the island and highlights of the CIP Budget.

Mr. Barry Usagawa described the benefits, conceptual plans, impacts, and mitigations, of the Kalaeloa Saltwater Desalination Facility process.

Ms. Nakabayashi concluded the Operating and CIP Budget presentation by stating that the total appropriation for Fiscal Year 2024 across the source of funds is \$454,329,964.

FY 2024 BUDGET SUMMARY

	Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Fund	Extramural Fund	TOTAL - All Funds
Operating Budget	241,683,964	-	-	-	-	241,683,964
Capital Improvement Program	34,696,000	39,380,000	40,750,000	50,410,000	47,410,000	212,646,000
Total - All Funds	276,379,964	39,380,000	40,750,000	50,410,000	47,410,000	454,329,964



Chair Andaya asked if there were any other questions on the proposed Operating and CIP Budget. Hearing none, he asked Manager Secretary, Ms. Kimberly Kuwaye, if anyone came in-person waiting to testify, Board Secretary, Ms. Cruz-Achui, if there was any written testimony, and Information Specialist, Mr. Steven Norstrom, if anyone was online, to testify. There was no in-person, written, or online testimony.

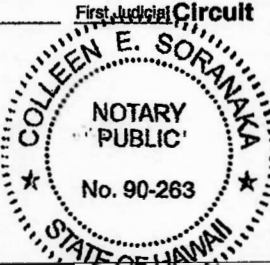
Chair Andaya closed the Public Hearing at 2:51 PM and continued with the Regular Board Meeting.

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

AFFIDAVIT OF PUBLICATION

**IN THE MATTER OF
NOTICE OF PUBLIC HEARING**

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

Doc. Date: MAY 11 2023 # Pages: 1
 Notary Name: COLLEEN E. SORANAKA, First Judicial Circuit
 Doc. Description: Affidavit of Publication
 Notary Signature: *[Signature]* Date: MAY 18 2023


Kimberly Masu 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

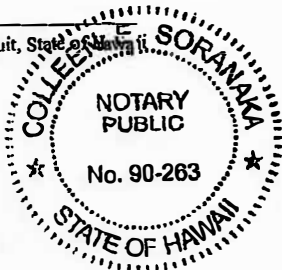
Honolulu Star-Advertiser	<u>1</u>	times on:
05/11/2023		
MidWeek	<u>0</u>	times on:
The Garden Island	<u>0</u>	times on:
Hawaii Tribune-Herald	<u>0</u>	times on:
West Hawaii Today	<u>0</u>	times on:
Other Publications:	<u>0</u>	times on:

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

[Signature]
 Kimberly Masu
 Subscribed to and sworn before me this 18th day of May A.D. 2023

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

Ad # 0001415151



NOTICE OF PUBLIC HEARING

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

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

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BOARD OF WATER SUPPLY
 CITY AND COUNTY OF HONOLULU

(SA1415151 5/11/23)

ICSP.NO.: _____

Public Hearings

Public Hearings

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BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

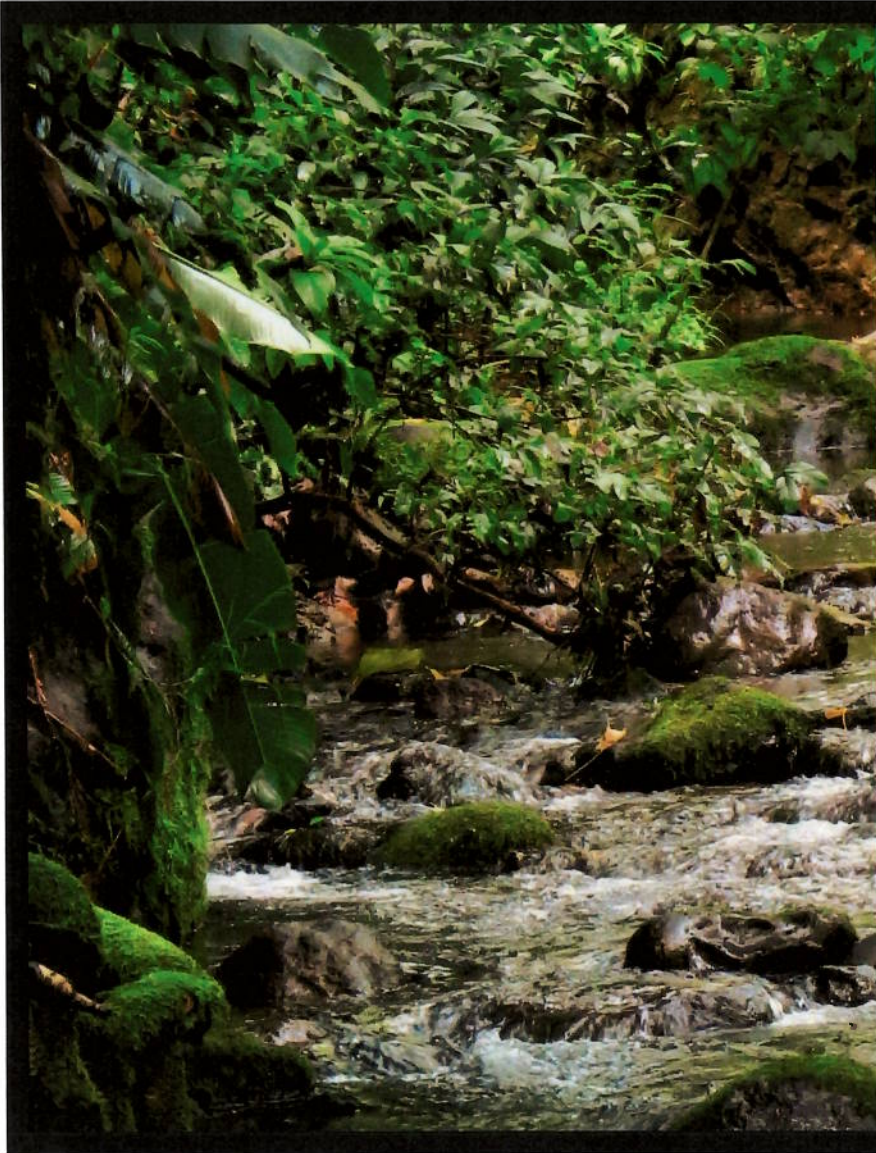
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FY 2024 BUDGET PUBLIC HEARING

Raelynn Nakabayashi
Jadine Urasaki, P.E., LEED AP
Barry Usagawa, P.E.

May 22, 2023
boardofwatersupply.com





FY 2024 OPERATING BUDGET AND CAPITAL IMPROVEMENT PROGRAM BUDGET

RAELYNN NAKABAYASHI, EXECUTIVE SUPPORT OFFICE

MAY 22, 2023

WWW.BOARDOFWATERSUPPLY.COM



FY 2024 BUDGET SUMMARY

	FY 2023 – Adopted	FY 2024 – Proposed	\$ Change	% Change
Operating Budget	\$237,240,444	\$241,683,964	\$4,443,520	1.87%
Capital Improvement Program Budget	\$184,076,325	\$212,646,000	\$28,569,675	15.52%
Total	\$421,316,769	\$454,329,964	\$33,013,195	7.84%



OPERATING & CIP BUDGETS FY 2020 – FY 2024

(MILLIONS OF DOLLARS)



OPERATING FUND RESOURCES AND EXPENDITURES

(MILLIONS OF DOLLARS)

	FY 2022	FY 2023	FY 2024
	Actual	Estimated Actual	Budget
Beginning Balance	\$50.0	\$63.4	\$29.8
Revenues	\$255.3	\$255.3	\$263.1
Lapses/ Adjustments	\$15.4	-	-
Total Resources	\$320.7	\$318.7	\$292.9
Operating Expenditures	\$202.0	\$242.0	\$241.7
Capital Improvement Program	\$55.3	\$46.9	\$34.7
Total Expenditures	\$257.3	\$288.9	\$276.4
Ending Balance	\$63.4	\$29.8	\$16.5



TOTAL RESOURCES VS. TOTAL EXPENDITURES (MILLIONS OF DOLLARS)



■ Revenues

■ Lapses / Adjustments

■ Fund Balance

■ Expenditures



BOARD ADOPTED FINANCIAL POLICIES

(FISCAL YEAR END JUNE 30, 2022)

4.4.2 Debt Service Coverage – **FY22 - 4.31x (Senior) & 3.16x (All-In)**

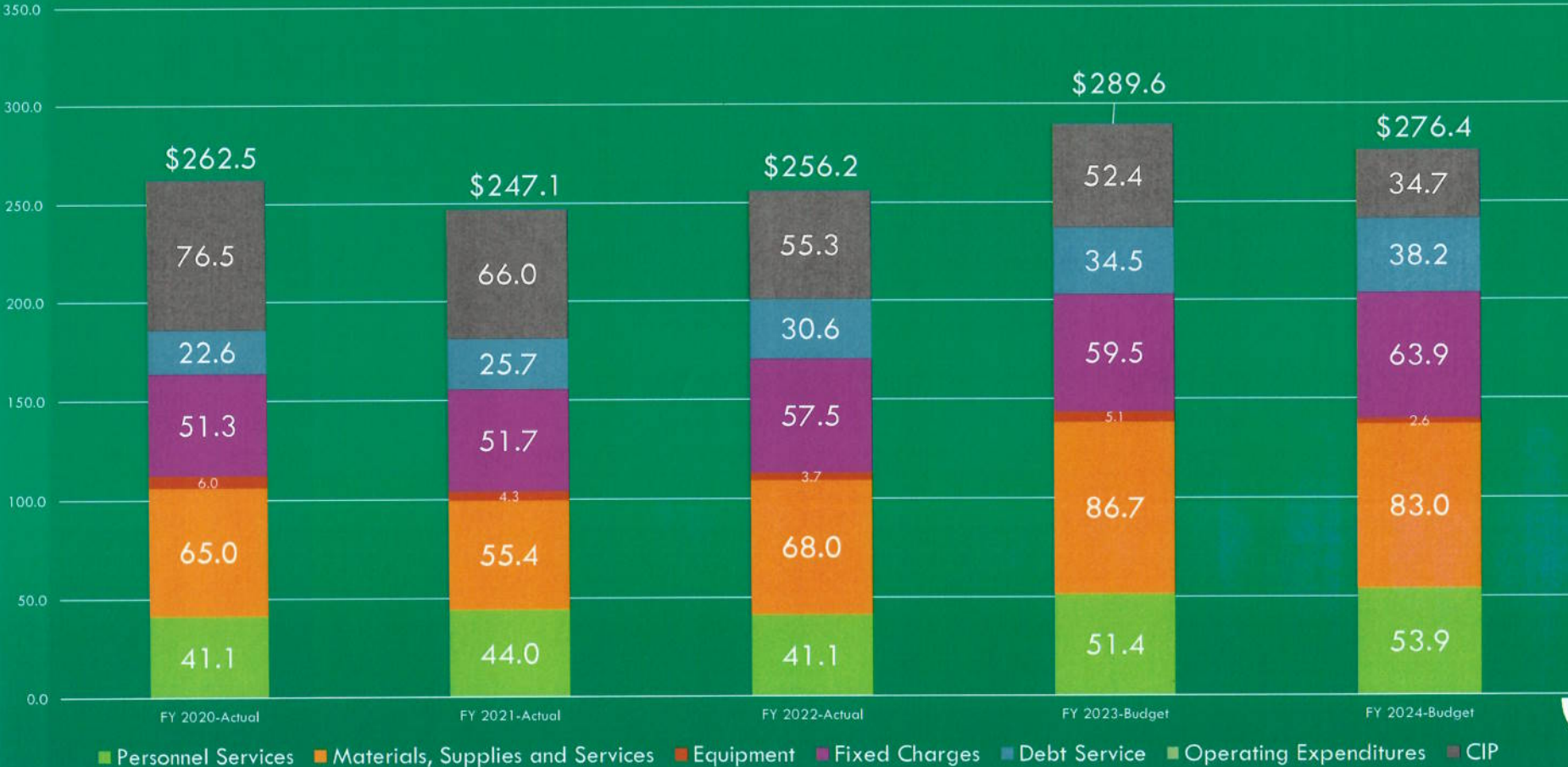
Per Board Resolution No. 873, 2017, the financial plan supports the BWS maintaining a minimum of 1.6x debt service coverage on total debt.

4.4.3 Net Working Capital – **FY22 - 115 Days**

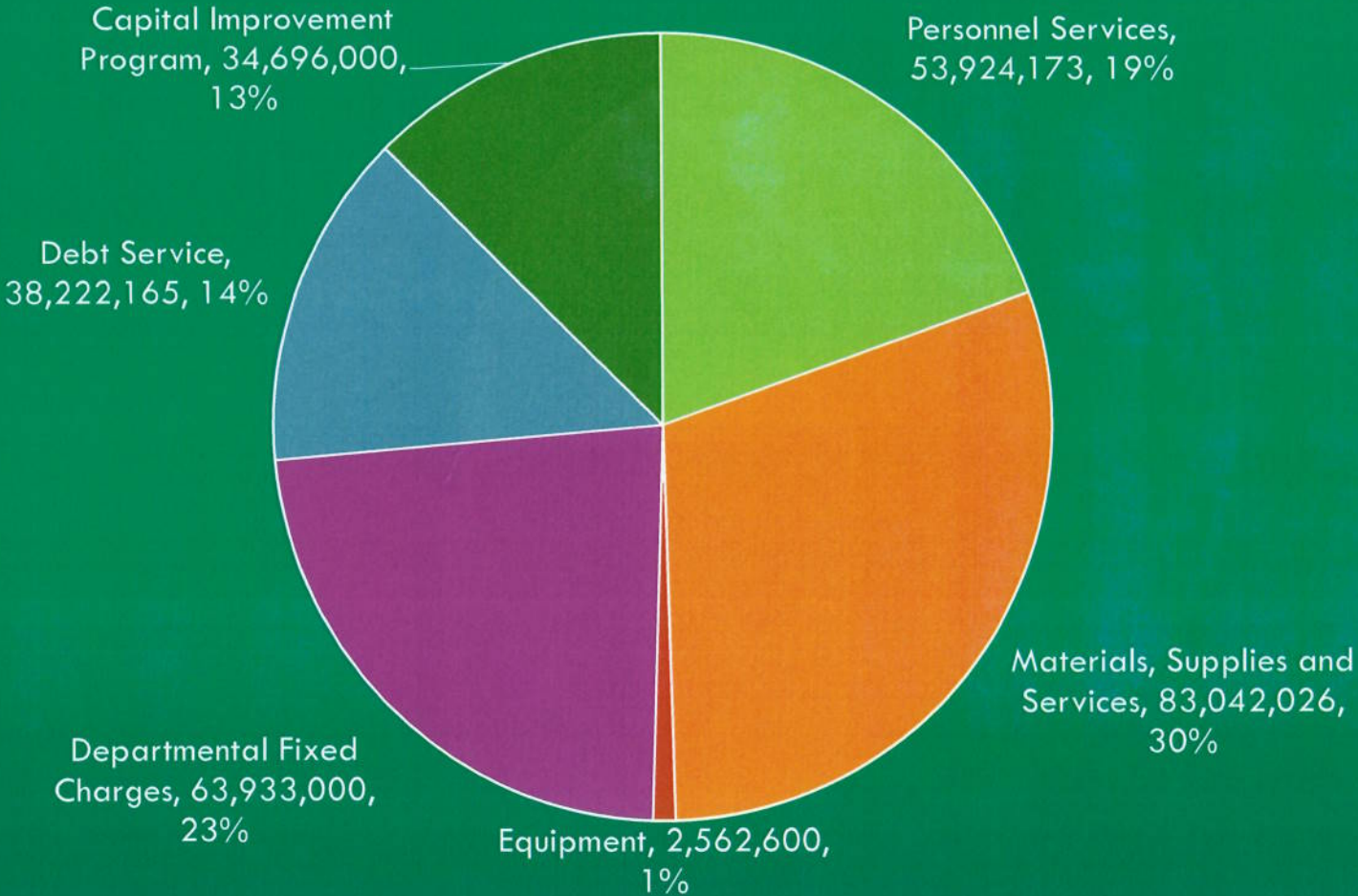
Revenue requirements include targeting 180 days of unencumbered working capital while never having less than 60 days.



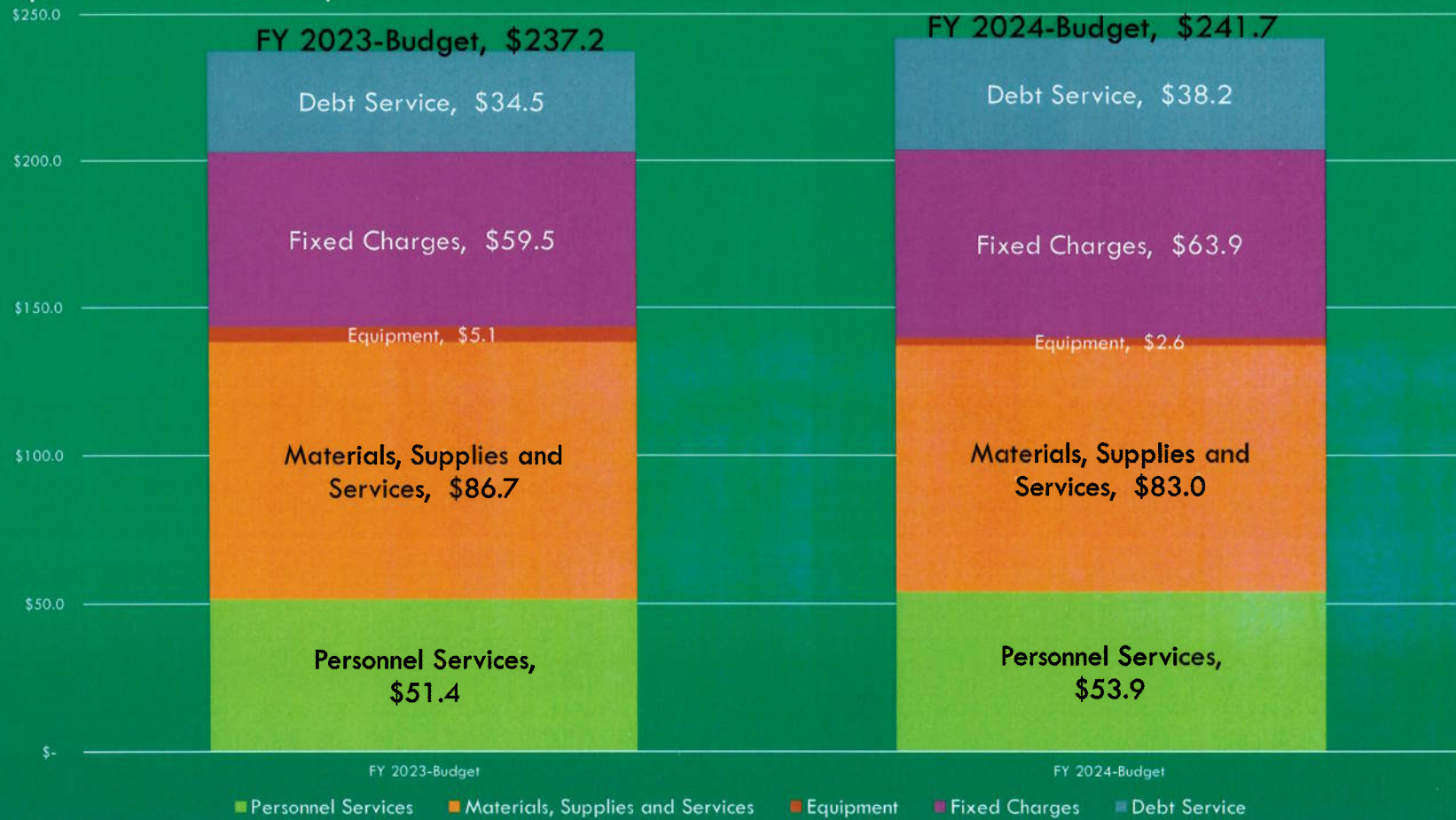
OPERATING FUND EXPENDITURES



Operating Fund Expenditures for FY 2024
\$276.4 million

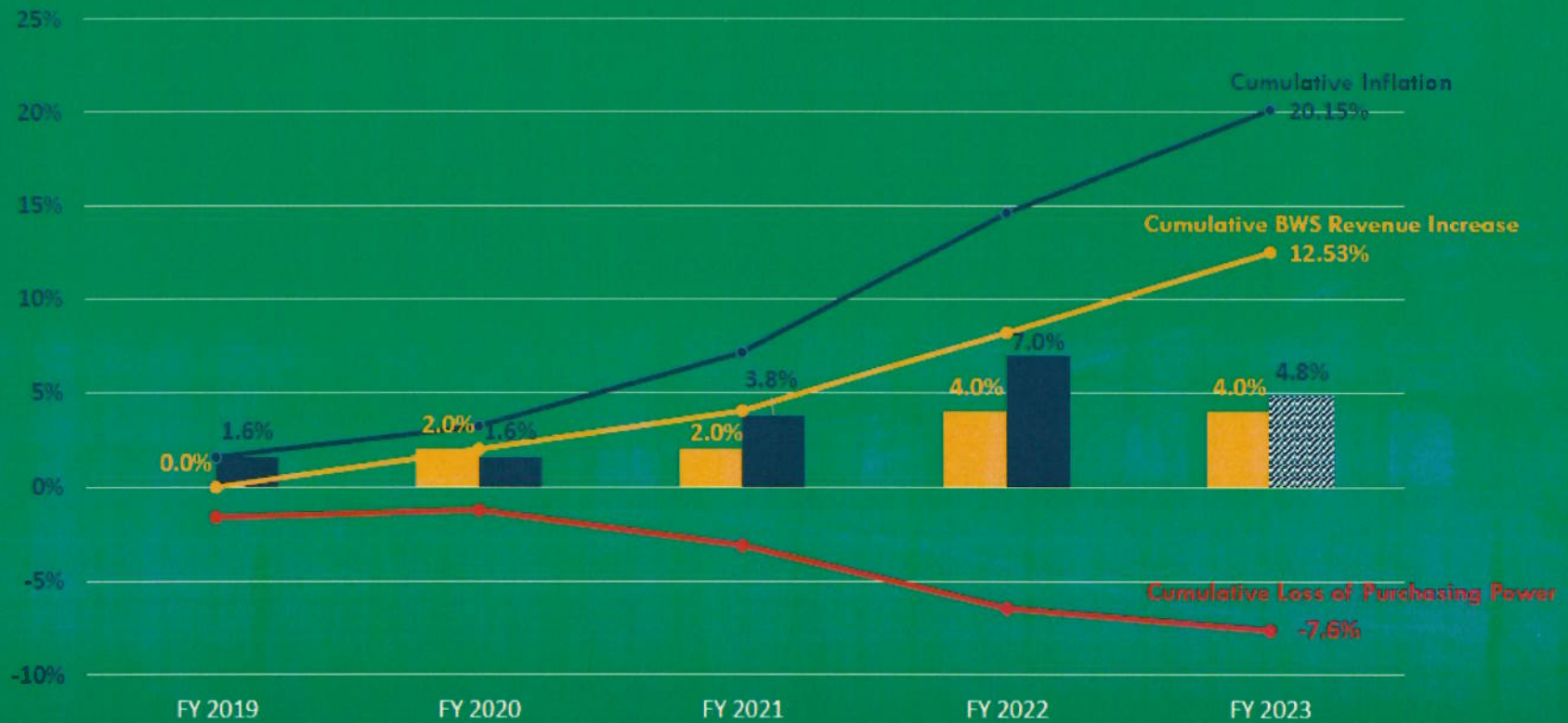


OPERATING BUDGET EXPENDITURES (EXCLUDING CIP)



THE FY 2024 OPERATING BUDGET IS ESSENTIALLY FLAT

...a “flat” budget actually means a smaller budget!



Annual Inflation Rate
BWS Annual Revenue Increase
Inflation data/projections from UHERO, Sept. 2022



HIGHLIGHTS OF THE OPERATING BUDGET

Salaries

- \$2.5 million increase in salaries or 4.8%
- No net increase in FTE
 - Department Staffing remains below the Authorized 741 FTE
 - Abolished 2 FTE
 - Created 2 Water Service Investigators (Leak Detection)



HIGHLIGHTS OF THE OPERATING BUDGET

Materials, Services & Supplies (MS & S)

- \$3.7 million decrease in MS&S or 4.2% decrease
- Primarily due to decreases in funding for Professional Services and Other Contractual Services.



HIGHLIGHTS OF THE OPERATING BUDGET

Equipment

- \$2.5 million decrease attributable to a \$2.0M decrease in the purchase of new fleet vehicles and \$375 thousand decrease within IT reflective a project funded in the current year

Debt Service

- \$3.7 million increase or +10.8% increase
 - \$3.2 million increase in principal and interest payments on bonds payable
 - \$460 thousand increase in SRF payments



HIGHLIGHTS OF THE OPERATING BUDGET

Fixed Charges

- \$4.4 million increase or +7.5% increase
 - +\$5.4 million increase in electricity costs
 - -\$1.0 million decrease in Employee Benefits (ERS and Health Benefits for Employees and Retirees)



REVENUE HIGHLIGHTS

- Total revenues are projected to increase by about \$4.5 million or +1.7%
 - Metered water revenues are projected to slightly increase by \$5.0 million or +2.1% due to the projected rate adjustment scheduled in the second half of FY 2024
 - Other revenues are projected to decrease by \$900 thousand or -9.6% due to a decrease in interest income

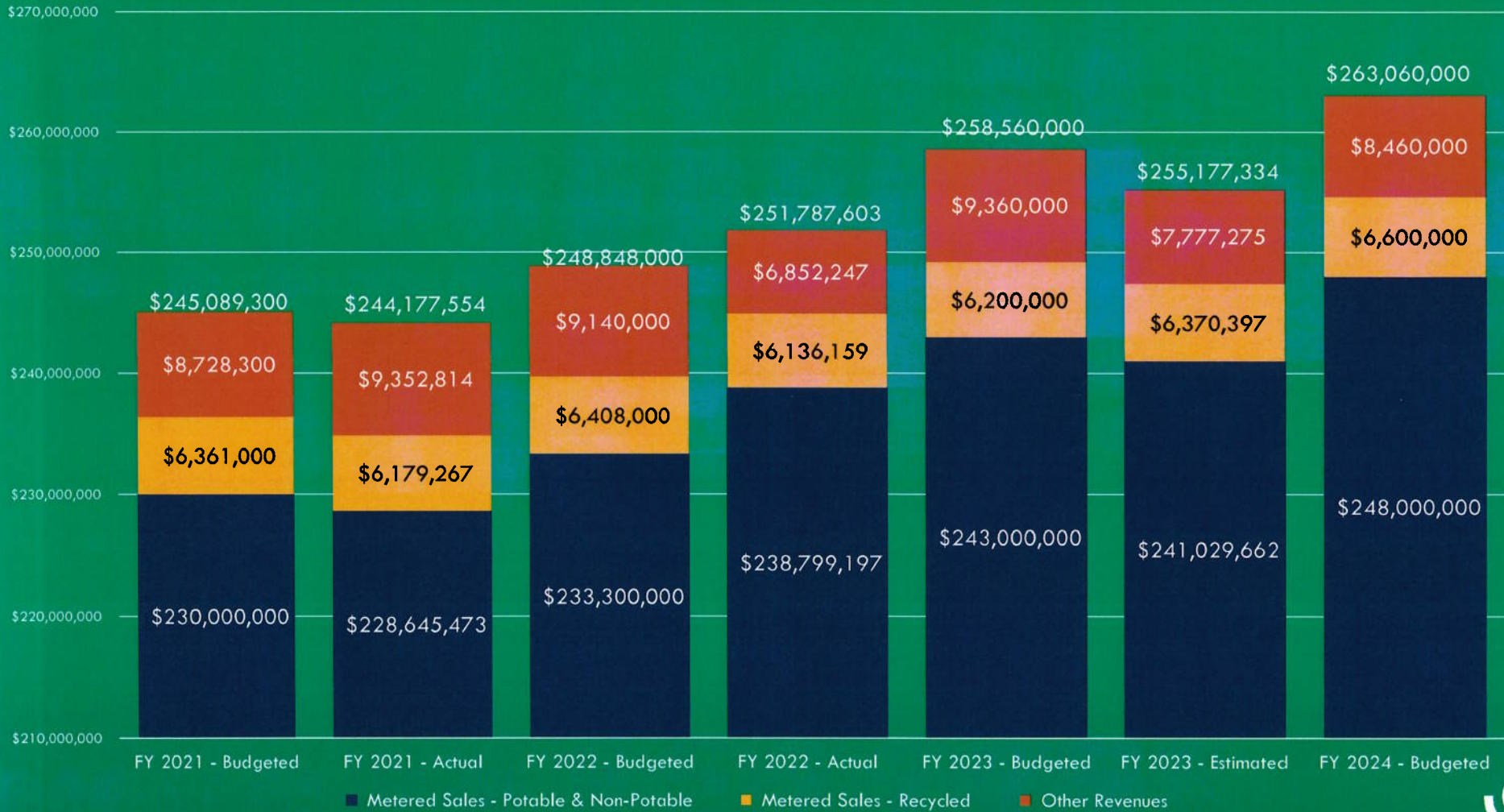


REVENUE PROJECTIONS FY 2024

Revenue Sources	FY 2022 Actual	FY 2023 Budget	FY 2024 Budget	% Change
Metered Sales				
Potable & Non-Potable Water	238,799,197	243,000,000	248,000,000	2.1%
Recycled Water	6,136,159	6,200,000	6,600,000	6.5%
Other Revenues	6,852,247	9,360,000	8,460,000	-9.6%
TOTAL REVENUES	251,787,603	258,560,000	263,060,000	1.7%



Operating Fund Revenue (\$ Millions)



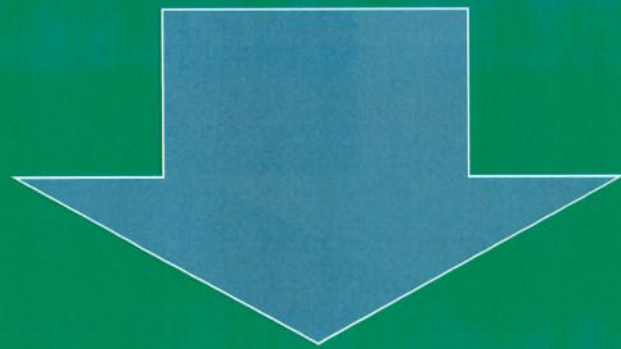
OPERATING FUND REVENUE & EXPENDITURE SUMMARY

(MILLIONS OF DOLLARS)

	FY 2023	FY 2024	Change	
	Adopted	Proposed	\$ Mil.	%
Revenues	\$258.6	\$263.1	\$4.5	1.7%
Total Operating Expenditures	\$289.6	\$276.4	(\$13.2)	-4.6%



FISCAL YEAR 2024 BUDGETS STRIKE A CAREFUL BALANCE



BWS MISSION

SAFE

DEPENDABLE

AFFORDABLE

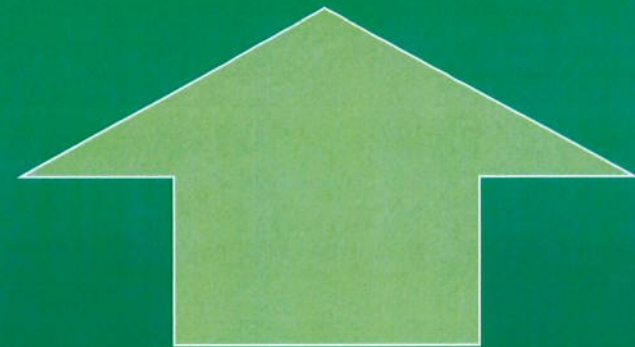


BWS PRESSURES

FIXED COSTS (ELECTRICITY)

RED HILL

INFLATION



FY 2024 CAPITAL IMPROVEMENT PROGRAM BUDGET

PUWE KĀ HĀNĪ KOLA KĀ HONUA

JADINE URASAKI, P.E., LEED AP – CAPITAL PROJECTS DIVISION

MAY 22, 2023

WWW.BOARDOFWATERSUPPLY.COM



FY 2024 CIP

- Supports the BWS vision and mission - **Water for Life: Safe, dependable and affordable water now and into the future**
- Aligned with the BWS Water Master Plan, Strategic Plan 2018-2022, Department's Goals and Objectives, and the Six-Year Capital Improvement Program



**Water Service
Adequacy & Dependability**

**Infrastructure Costs
Rate Affordability**



PROJECT CATEGORIES

Research and Development

Renewal and Replacement

Capacity Expansion





FUNDING DIVERSIFICATION EFFORTS, REFLECTED IN
OUR FISCAL YEAR 2024 CAPITAL IMPROVEMENT
PROGRAM BUDGET...



CAPITAL IMPROVEMENT PROGRAM BUDGET FY 2024

	Categories	Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Fund	Extramural Fund	Total
I.	Research & Development	\$ 2,500,000	---	---	\$ 2,500,000	\$ 10,000,000	\$ 15,000,000
II.	Renewal & Replacement	\$ 18,110,000	\$ 5,100,000	---	\$ 31,740,000	\$ 5,100,000	\$ 60,050,000
III.	Capacity Expansion	---	\$ 30,700,000	\$ 35,000,000	\$ 8,400,000	\$ 28,300,000	\$ 102,400,000
	Subtotal	\$ 20,610,000	\$ 35,800,000	\$ 35,000,000	\$ 42,640,000	\$ 43,400,000	\$ 177,450,000
	Construction Cost Index	\$ 1,586,000	\$ 3,580,000	\$ 3,500,000	\$ 3,520,000	\$ 4,010,000	\$ 17,196,000
	Contract Adjustment	\$ 12,500,000	---	\$ 2,250,000	\$ 4,250,000	---	\$ 19,000,000
	Total	\$ 34,696,000	\$ 39,996,000	\$ 40,750,000	\$ 50,410,000	\$ 47,410,000	\$ 212,646,000



Board of Water Supply
Capital Improvement Program
FY 2024

				Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
I. Research and Development									
1. Exploratory Wells for Red Hill Contamination Response	Drill, case, install test pump and sample one exploratory well at Newtown 550' as possible replacement sources for the loss of Halawa Shaft due to the Red Hill fuel contamination.	CP-S	Const	500,000	-	-	-	3,000,000	3,500,000
2. Monitoring Wells for Red Hill Contamination Response	Drill and case up to ten (10) monitoring wells for use as "sentinel" wells to warn of the presence of an underground fuel plume from the Red Hill fuel contamination.	CP-S	Const	-	-	-	2,500,000	7,000,000	9,500,000

\$10,000,000 "Extramural" to reflect the amount **appropriated** in State HB300 for the BWS

HOUSE OF REPRESENTATIVES
THIRTY-SECOND LEGISLATURE, 2023
STATE OF HAWAII

H.B. NO. 300
H.D. 1
S.D. 1
C.D. 1

A BILL FOR AN ACT

RELATING TO THE STATE BUDGET.

16. MONITORING AND EXPLORATORY WELLS,
OAHU

PLANS, DESIGN, AND CONSTRUCTION FOR MONITORING WELLS FOR AQUIFER MONITORING NEEDED TO UNDERSTAND CONDITION OF THE GROUNDWATER AQUIFER UNDERNEATH AND SURROUNDING THE RED HILL BULK FUEL STORAGE FACILITY, AND EXPLORATORY WELL TO MEET FUTURE POTABLE WATER REQUIREMENTS FOR THE METROPOLITAN AREA ON OAHU.

TOTAL FUNDING

CCH

10,000 C



Board of Water Supply
Capital Improvement Program
FY 2024

				Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
C. Pipelines									
11. Kahilina Place and Aiea Heights Drive Water System Improvements	Installs 8-inch mains and appurtenances along Kahilina Place, from Aiea Heights Drive to end; along Aiea Heights Drive, from Holo Street to Aiea 277 Reservoir; along Ahehe Street, from Kanaloa Street to Aiea Heights Drive; and along Hakina Street, from Kanaloa Street to Kaulaimohe Place - approx. 4,070 lin. ft.	CP-D	Const	-	5,100,000	-	-	5,100,000	10,200,000

\$5,100,000 “Extramural” in anticipation of a “Congressionally Directed Spending” Appropriation for the Kahilina Place and Aiea Heights Drive Water System Improvements Project

**BWS Funds also budgeted



Board of Water Supply
Capital Improvement Program
FY 2024

			Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Total	
38. Honolulu District 42-Inch Mains - Liliha to Moiliili	Phase I - Install 42-inch mains and appurtenances along North King Street, from Dillingham Boulevard to North Beretania Street; and along North Beretania Street, from North King Street to Nuuanu Avenue - approx. 2,830 lin. ft.	CP	P&E	-	-	-	3,000,000	3,000,000	6,000,000
39. Honolulu District 42-Inch Mains - Liliha to Moiliili AIS	Prepare and submit an archaeological inventory survey (AIS) plan, and conduct and complete an AIS for the Honolulu District 42-Inch Mains - Liliha to Moiliili.	WR	P&E	-	-	-	300,000	300,000	600,000



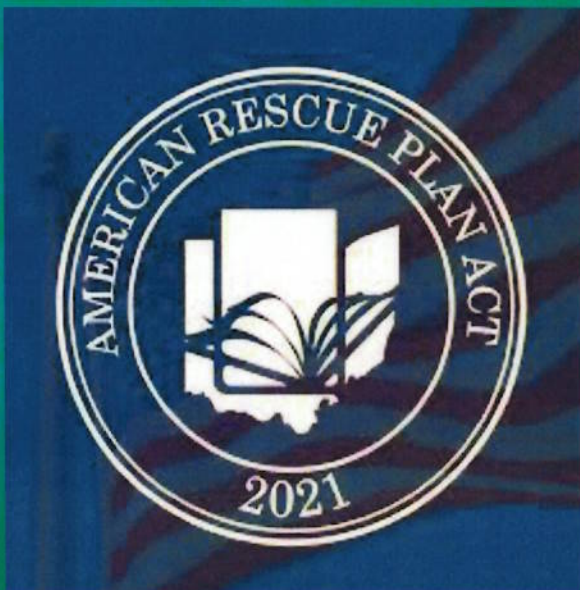
\$3,300,000 “Extramural” in anticipation of a “Congressionally Directed Spending” Appropriation for the Honolulu District 42” Mains Project

**BWS Funds also budgeted



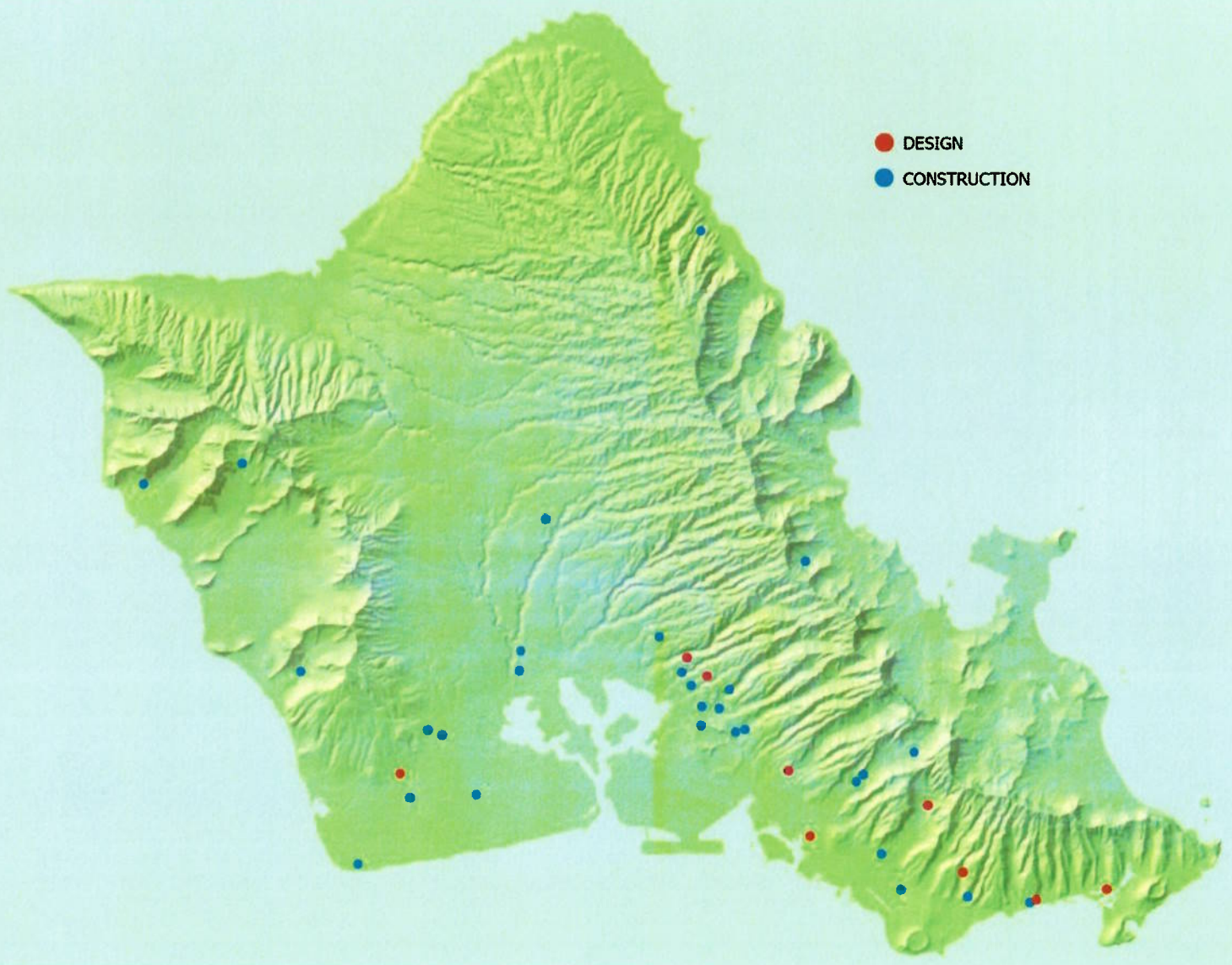
Board of Water Supply
Capital Improvement Program
FY 2024

				Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
40. Kalaheo 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 Kalaheo Boulevard, along Kalaheo 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	-	-	35,000,000	-	25,000,000	60,000,000



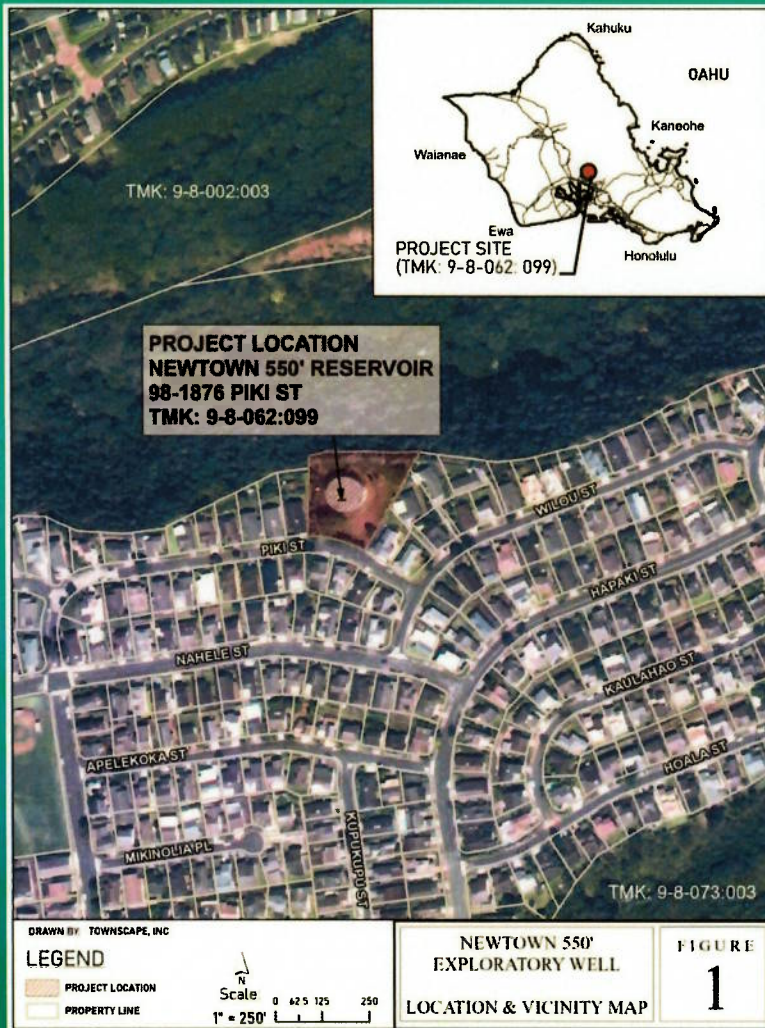
\$25,000,000 “Extramural” to reflect the amount **awarded** in State and Local Fiscal Recovery Funds (SLFRF) to the BWS from the City & County of Honolulu from its American Rescue Plan Act (ARPA) Funds





● DESIGN
● CONSTRUCTION





PROJECT CATEGORY HIGHLIGHTS

Research and Development (\$25 million)

- Exploratory and Monitoring Wells for Red Hill Contamination Response
- Construction Management for Various BWS Construction Projects



PROJECT CATEGORY HIGHLIGHTS

Renewal and Replacement (\$60 million)

- Waihee Tunnel and Inclined Wells Chlorinator
- Makakilo Booster No.1 Electrical Upgrades and Facility Projects
- Kaonohi Booster No. 2 MCC Replacement and Facility Repairs
- Kalihi High Service Booster Electrical Upgrades
- Hawaii Loa Booster No.1 Pump and MCC Replacement

WAIHEE
INCLINED
WELLS

WAIHEE TUNNEL

WAIHEE TUNNEL
INCLINED

WAIHEE
PUMP STATION



An aerial photograph of a lush, green forested area. A stream flows through the center of the image, surrounded by dense trees. In the bottom right corner, a paved road with a blue parking sign is visible. The text is overlaid on the upper portion of the image.

PROJECT CATEGORY HIGHLIGHTS

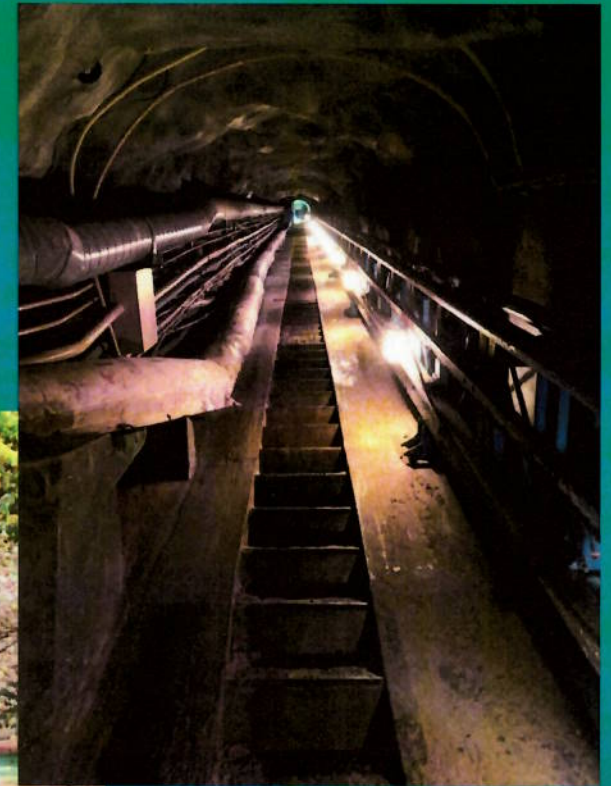
Renewal and Replacement (continued)

- Main replacement construction in Aiea, Halawa, Honolulu— 1.54 miles
- Mililani Wells I – GAC Replacement
- Nuuanu Reservoir No.1 Dam Improvements
- Nanakuli 242 Altitude Valve

PROJECT CATEGORY HIGHLIGHTS

Renewal and Replacement (continued)

- Makaha Shaft Tunnel Rehabilitation
- Pump Renewal and Replacement
- Facility Repair and Renovations
- Security Improvements at Various Locations



PROJECT CATEGORY HIGHLIGHTS

Capacity Expansion (\$102 million)

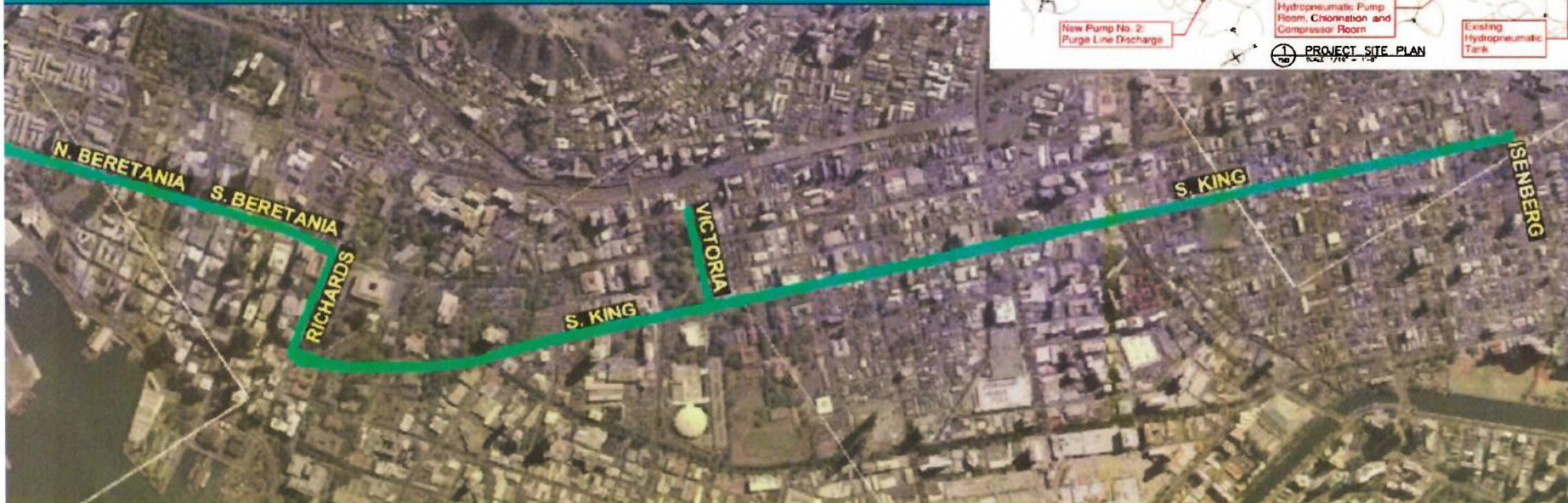
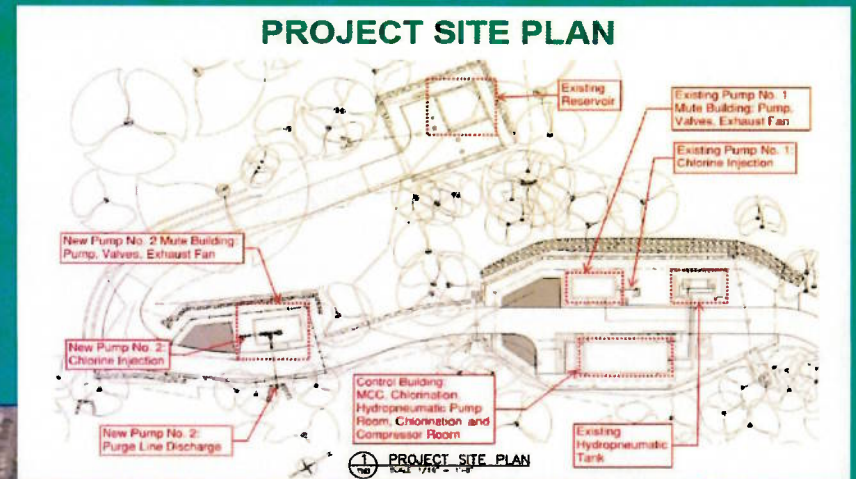
- Red Hill Contamination Response Production Well at Aiea 497'
- Waialae Nui Well Environmental Assessment
- East Kapolei 215 R1 3.0 MG Reservoir
- Kualakai Parkway 16-Inch Recycled Water Main



PROJECT CATEGORY HIGHLIGHTS

Capacity Expansion (\$102 million) (continued)

- Maakua Well Unit No.2
- Honolulu District 42-Inch Mains
- Kalaeloa Seawater Desalination Facility





FY 2024
KALAELOA SEAWATER DESALINATION SITE

BARRY USAGAWA, P.E. – WATER RESOURCES DIVISION
MAY 22, 2023

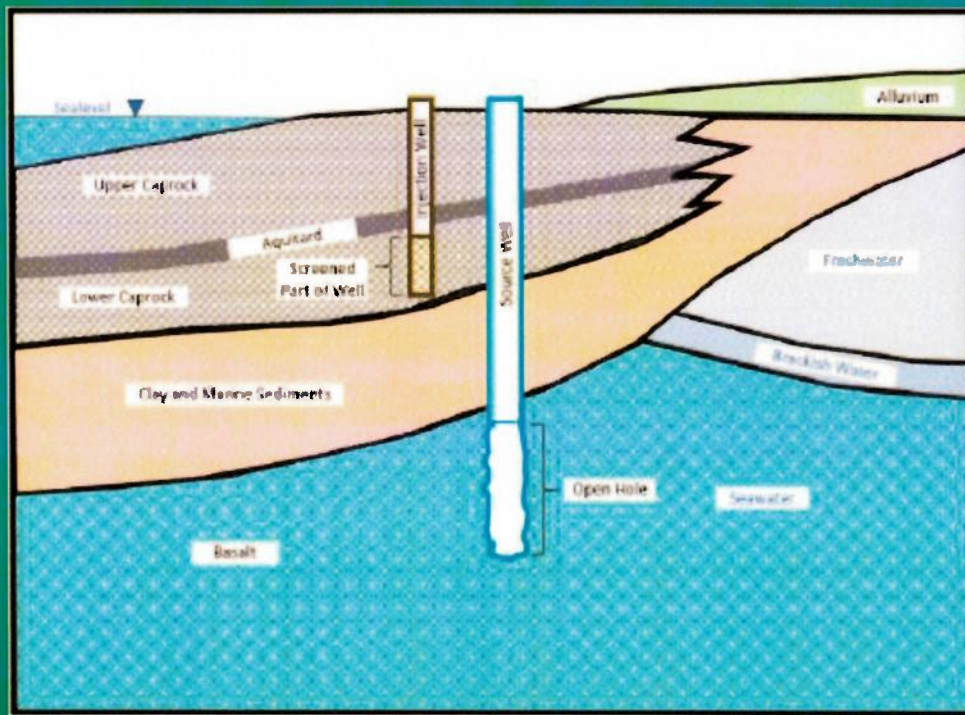
WWW.BOARDOFWATERSUPPLY.COM



Kalaheo Seawater Desalination Conceptual Site Plan



Ewa Caprock & Basalt Geology is Hydraulically Separate



Saltwater source is from deep wells.

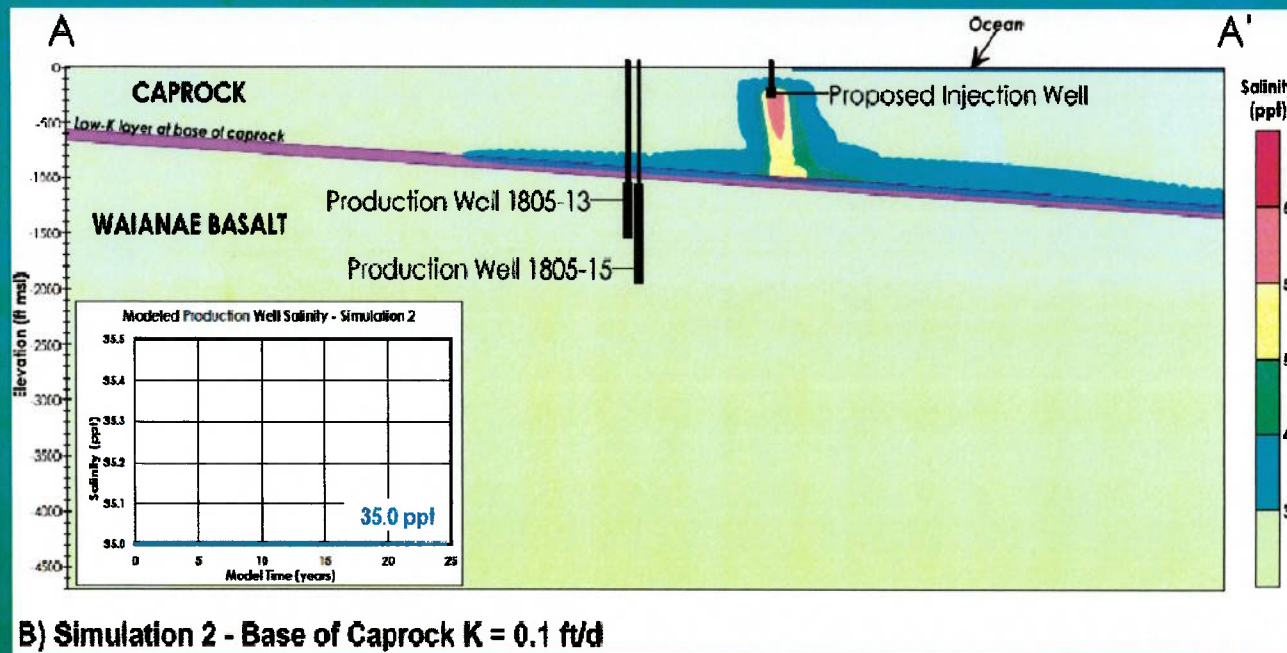
Brine injection into the overlying caprock.

JCIP is an underground injection control area regulated by DOH

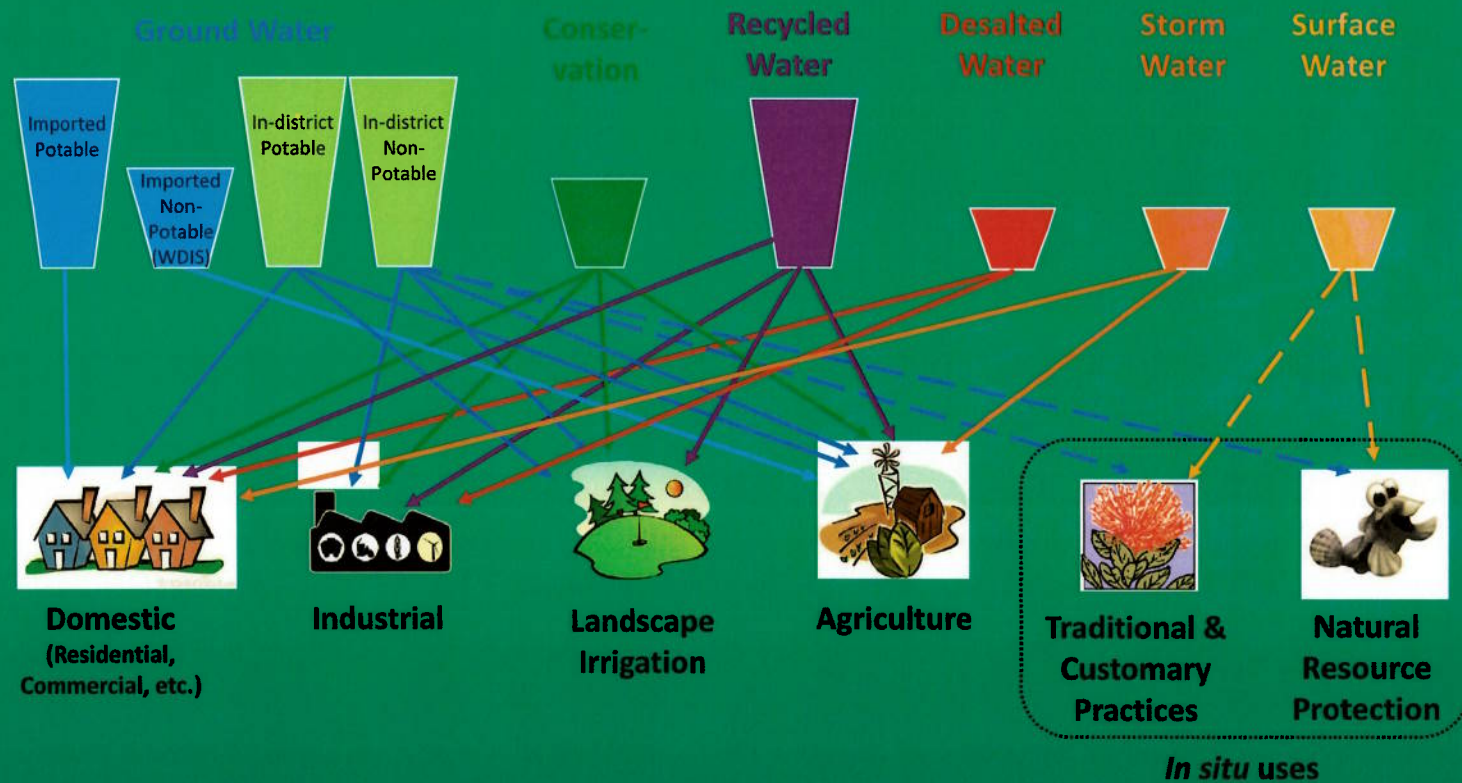


Concentrate Disposal Well Groundwater Model Findings

Brine will sink because of higher density and flow along the caprock/basal contact along a 4% slope to the ocean and be diluted. Brine will not impact the benthic nearshore environment.



ONE WATER DIVERSIFIED WATER SUPPLY OPTIONS



KALAELOA DESALINATION PROJECT IMPORTANCE

We currently rely solely on Ground Water for drinking, hygiene and sanitation. We are facing challenges in three areas as it relates to Ground Water Resources:

1. Climate Change (depletion of supply),
2. Regulatory Actions (CWRM),
3. Contamination Events (Red Hill, PFAS).

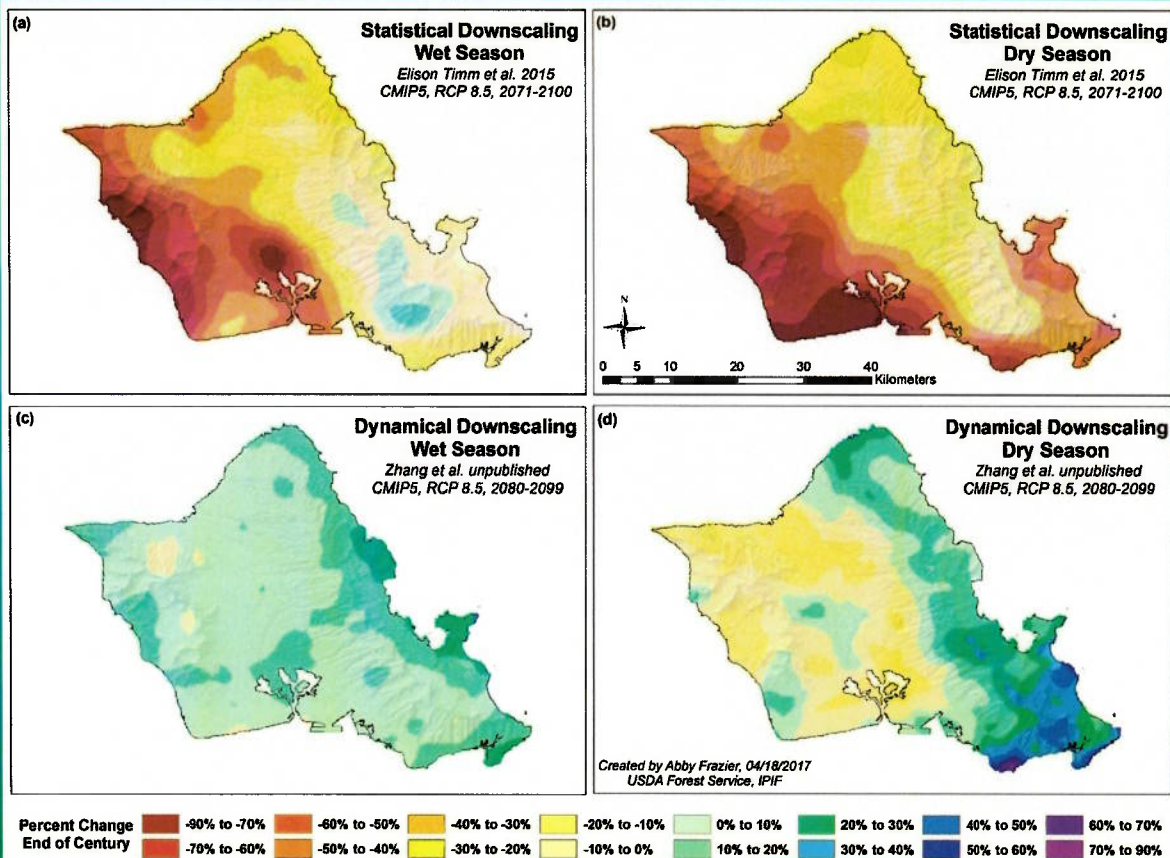
Desalination is a sustainable and resilient source that will diversify our drinking water supply.



Year 2100: Climate Change Projections May Reduce Aquifer Sustainable Yields

Drier = "Worst Case"

Wetter = "Best Case"



NOTICE OF AWARD

PROJECT NAME: BWS-21-WR-05 KALAELOA SEAWATER DESALINATION FACILITY DESIGN, BUILD, OPERATE, MAINTAIN PROJECT

CONTRACT NUMBER: C23004601

CONTRACT AMOUNT: \$149,648,118.00 – FIXED DESIGN -BUILD AMOUNT
\$2,721,919.00 - ANNUAL OPERATING & MAINTENANCE FEE

CONTRACTOR: KALAELOA DESALCO, LLC in Partnership with
NORDIC PCL CONSTRUCTION, INC.

**NOTICE OF
AWARD DATE:** 04/28/2023

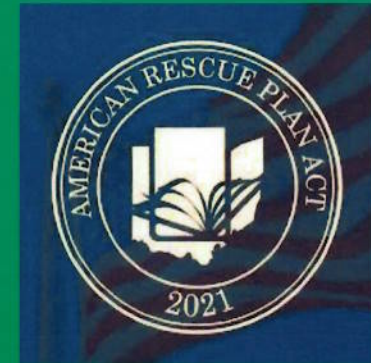
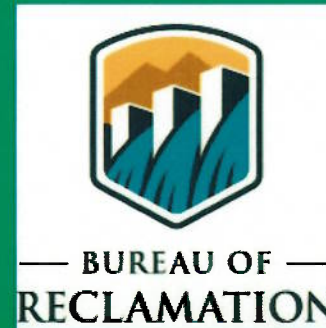
This project will be funded over multiple Fiscal Years; \$60M Funded FY2024

Project completion estimated in 2026



FUNDING OPPORTUNITIES

- \$19M – US Bureau of Reclamation
- \$25M – American Rescue Plan Act
- Total Grant Funding \$44M

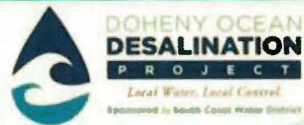


While Desalination is expensive, we have a unique opportunity, right now, to **reduce its cost impact** to our rate payers:

- The land on which the plant will be constructed was provided at NO COST by the Federal Government
- The Project is a congressionally authorized Title XVI project under the Hawaii Water Resources Act of 2005
- The Project qualifies to receive ARPA Funding, which will expire in 2026
- WIFIA, Low-Interest and Flexible financing may be available for this project



SCWD (CA) IS PURSUING A SIMILAR PROJECT AT COMPARABLE COST: \$140M



DOHENY OCEAN DESALINATION PROJECT INFORMATION SHEET

South Coast Water District (SCWD) is committed to providing safe, clean, reliable water to its customers. SCWD has continued to enhance our recycled water system/ supplies since the 1980's, investing significantly in conservation programs and measures, and utilizing brackish groundwater, when available; and we still must rely on imported water for 90% of our drinking water supply, which is not a sustainable solution.

The Doheny Ocean Desalination Project would create a new, reliable, local, and drought proof water supply that would also provide emergency water supplies should the delivery of imported water be disrupted due to earthquakes or other natural disasters.

The facility's proposed location between Pacific Coast Highway and Stonehill Drive next to San Juan Creek is within 100 yards of existing regional water transmission lines. SCWD would build the facility on property that SCWD already owns, and the infrastructure is already in place with the Joint Regional Water Supply System to distribute desalinated water to SCWD customers and south Orange County, significantly reducing costs and construction impacts. The facility would have a capacity of up to 5 Million Gallons per Day (MGD).

PROPOSED SCHEDULE



PROPOSED PROJECT LOCATION



PROJECT BENEFITS

- ◆ New, sustainable, local, high-quality water at a reasonable cost
- ◆ Reliability for natural disasters
- ◆ Drought-proof and resilient to climate change
- ◆ Up to 5 million gallons per day of drinking water supply
- ◆ Potential long-term and regional benefits

KEY NUMBERS

- ◆ \$32.4 million in grants received, to date
- ◆ ~\$3/month increase to average Single Family Residential household
- ◆ ~\$140 million capital cost

For More Project Information: [SCWD.ORG/dohenyDetail](https://www.scwd.org/dohenyDetail)
 For Information on Water Conservation & Financial Assistance: [SCWD.ORG/ResUsage](https://www.scwd.org/ResUsage)

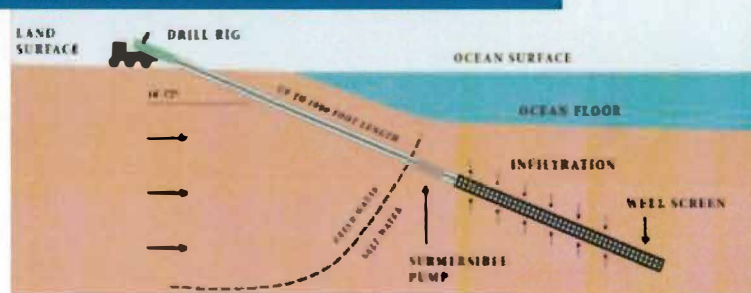
RENDERING OF PROPOSED DESALINATION FACILITY



FIRST DESALINATION PROJECT IN THE STATE OF CALIFORNIA TO BE FULLY COMPLIANT WITH THE CALIFORNIA OCEAN PLAN

- ✓ Source water is from subsurface intake (slant) wells proposed of Doheny State Beach, which are the environmentally preferred technology because they are fully buried beneath the ocean floor to ensure the full protection of marine life
- ✓ Brine, the saltwater left over from the desalination process, would be comingled with treated wastewater in an existing outfall pipe and discharged to the ocean, which is the environmentally preferred discharge method

SUBSURFACE SLANT WELL FOR OCEAN WATER INTAKE



ABOUT SOUTH COAST WATER DISTRICT

SCWD provides potable water, recycled water, and wastewater services to approximately 35,000 residents, 1,000 businesses, and 2 million visitors per year in south Orange County, California. SCWD's service area, divided into five districts, includes the communities of Dana Point, South Laguna Beach, and areas of San Clemente and San Juan Capistrano. A five member elected Board of Directors oversees SCWD's policymaking, financial stewardship, rate-setting, capital programs, and long-term planning.

Para una versión en español de este documento:
 For accessible versions of this document:
[SCWD.ORG/DohenyDetail](https://www.scwd.org/DohenyDetail)



FY 2024 BUDGET SUMMARY

	Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Fund	Extramural Fund	TOTAL - All Funds
Operating Budget	241,683,964	-	-	-	-	241,683,964
Capital Improvement Program	34,696,000	39,380,000	40,750,000	50,410,000	47,410,000	212,646,000
Total - All Funds	276,379,964	39,380,000	40,750,000	50,410,000	47,410,000	454,329,964





Mahalo!

BOARD OF WATER SUPPLY

FY 2023 Budget Public Hearing
Raelynn Nakabayashi, Jadine Urasaki, P.E., LEED AP
& Barry Usagawa, P.E.
rnakabayashi@hbws.org, jurasaki@hbws.org &
busagawa@hbws.org

boardofwatersupply.com for more information
May 22, 2023

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

BOARD OF WATER SUPPLY

City and County of Honolulu
Honolulu, Hawaii



2024 BUDGET

For the Fiscal Year Beginning July 1, 2023 and
Ending June 30, 2024

**BOARD OF WATER SUPPLY
City and County of Honolulu**

**OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET
For the Fiscal Year Beginning July 1, 2023 and Ending June 30, 2024**

BOARD MEMBERS

Bryan P. Andaya, Chair

Kapua Sproat, Vice-Chair

Max J. Sword, Member

Na'alehu Anthony, Member

Jonathan Kaneshiro, Member

Warren K. Mamizuka, Acting Ex-Officio

Edwin H. Sniffen, Ex-Officio

SUBMITTED BY:



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

APPROVED:



BRYAN P. ANDAYA, Chair

May 22, 2023

May 22, 2023

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

Chair and Members:

In accordance with Section 7-106(i), Revised Charter of the City and County of Honolulu, we submit for your review and approval the proposed Operating and Capital Improvement Program Budget for fiscal year July 1, 2023 to June 30, 2024 (FY 2024).

INTRODUCTION

The Board of Water Supply (BWS) embraces its mission of “Water for Life – Ka Wai Ola” – to provide a safe, dependable, and affordable water supply, now and into the future. While we weather uncertain times due to the Red Hill Bulk Fuel Storage Facility contamination, national and international economic instability, a slowing local economy, and significant impacts of the war in Ukraine on economies around the world, the FY2024 Operating and Capital Improvement Program Budgets are lean and remain focused on our core mission.

Though expenditures continue to experience upward pressure, the BWS continues to exercise fiscal prudence while it completes a Cost-of-Service Study and awaits the implementation of a new Schedule of Rates and Charges. Implementation of a new rate schedule, that encompasses the current costs to provide water service, is targeted for January 2024. Rates and Charges adopted on September 15, 2018, and extended with no change on April 24, 2023, will remain in effect during at least the first half of FY 2024. As inflation decreases purchasing power, and supply chain issues impact operations, lengthen time to project completion, and increase expenses, to balance the budget, only expenses deemed necessary to maintain core services are included in the FY 2024 Budgets. The BWS has taken care to balance increased fixed costs, such as rising electricity rates, salary increases due to collective bargaining and debt service, to ensure a safe, dependable, and affordable water supply for its customers.

FINANCIAL PLAN

The proposed Operating Budget for FY 2024 is based on total Operating Fund¹ resources of \$292.9 million, to be derived from operating revenues of \$263.0 million and an estimated carryover balance from FY 2023 of \$29.9 million. The carryover balance results from the estimated Operating Fund¹ balance that is unappropriated.

The proposed Operating Fund¹ expenditure allocations are \$241.7 million for operating expenses and \$34.7 million for the Capital Improvement Program (CIP) budget. A projected ending balance of \$16.5 million will be unappropriated.

The proposed CIP budget totals \$212.6 million and is funded by \$34.7 million from the Operating Fund¹, \$50.4 million from the Improvement Fund², \$40.8 million from the Special Expendable Fund³, \$47.4 million from the Extramural Fund⁴, and \$39.4 million from the State of Hawaii Department of Health State Revolving Fund (SRF) loan program⁵.

PART I. OPERATING BUDGET

Following are summaries of the proposed revenues and expenditures for FY 2024 as well as the corresponding figures for the preceding two fiscal years.

A. REVENUES

For FY 2024, we are projecting total revenues of \$263.0 million, which is \$4.5 million or 1.7 percent more than total revenues budgeted for FY 2023.

Revenue Sources	FY 2022 Actual	FY 2023 Budget	FY 2024 Budget	% Change FY 2024 over FY 2023
Metered Sales				
Potable and Non-Potable Water*	238,799,197	243,000,000	248,000,000	2.1%
Recycled Water	6,136,159	6,200,000	6,600,000	6.5%
Other Revenues	6,852,247	9,360,000	8,460,000	-9.6%
Total Revenues	251,787,603	258,560,000	263,060,000	1.7%

*Non-Potable Water is water that is not of drinking quality, but which may still be used for many other purposes, depending on its level of quality. This may also be referred to as brackish water.

Metered Sales – Potable Water and Non-Potable

Potable and non-potable water sales are projected to increase by \$5.0 million or 2.1 percent more than the FY 2023 budget amount of \$243.0 million. This increase is primarily due to a rate adjustment anticipated to be effective in the second half of FY 2024 and the current year (FY 2023) usage and revenue trend.

Metered Sales – Recycled Water

Recycled water sales of \$6.6 million are projected to increase slightly by \$400 thousand or 6.5 percent when compared to the FY 2023 budget. This increase projected is based on a rate adjustment anticipated to be effective in the second half of FY 2024 and the current year (FY 2023) usage and revenue trend.

Other Revenues

Other Revenues of \$8.5 million will be \$900 thousand or 9.6 percent lower than the FY 2023 budgeted amount primarily due to an anticipated decrease in interest income of \$600 thousand. Interest income is interest revenue earned on the Board's investments. Other Revenues category is comprised of sources such as interest income on investments, ocean cooling revenues, automatic fire sprinkler charges, rental income, and miscellaneous billing charges.

B. EXPENDITURES

The proposed total Operating Fund¹ expenditures for FY 2024 are budgeted at \$276.4 million. This represents a decrease of \$13.2 million, or 4.6 percent less than the amount budgeted for FY 2023. This change is attributable to increases in fixed charges like personnel of \$2.5 million, electricity of \$5.4 million, and debt service of \$3.7 million; offset by decreases in funding for variable expenses of materials, supplies, services of \$3.7 million and equipment of \$2.5 million, and a reduction of Operating Funded¹ projects in the Capital Improvement Program budget of \$17.7 million.

Highlights of the proposed Operating Budget for FY 2024 are presented following the next table.

Summary of Proposed Operating Budget, by Major Cost Categories

	FY 2022 Actual	FY 2023 Budget	FY 2024 Budget	FY 2024 over FY 2023	% Change FY 2024 over FY 2023
Personnel Services	41,078,141	51,445,200	53,924,173	2,478,973	4.8%
Materials, Supplies, and Services	68,013,514	86,712,744	83,042,026	(3,670,718)	-4.2%
Equipment	3,728,520	5,087,100	2,562,600	(2,524,500)	-49.6%
Fixed Charges	57,482,165	59,484,500	63,933,000	4,448,500	7.5%
Debt Service	30,558,729	34,510,900	38,222,165	3,711,265	10.8%
Total Operating Expenditures	200,861,069	237,240,444	241,683,964	4,443,520	1.9%
Transfer to the CIP Program	55,310,004	52,351,325	34,696,000	(17,655,325)	-33.7%
Total Expenditures	256,171,073	289,591,769	276,379,964	(13,211,805)	-4.6%

Personnel Services

The proposed personnel services budget of \$54.0 million is \$2.5 million or 4.9 percent more than personnel services budgeted for FY 2023 due to negotiated collective bargaining salary increases. BWS is working diligently to improve retention and recruitment of its workforce through use of targeted advertisement with trade publications and associations, social media, and other recruitment activities. Only positions that are anticipated to be filled in FY 2024 are funded. The proposed operating budget includes the creation of two (2) new positions which are offset by the abolishment of two (2) existing positions, which are no longer needed. The departmental staffing level remains under the total of 741 authorized positions.

The two (2) new positions proposed are:

- (1) Water Service Investigator I (Field Operations) 24FO01
- (2) Water Service Investigator I (Field Operations) 24FO02

The two (2) positions to be abolished are:

- (1) Clerk Dispatcher I (Field Operations) BW804
- (2) Building Maintenance Repairer (Field Operations) BW678

Materials, Supplies and Services (MS&S)

The proposed MS&S budget of \$83.0 million is \$3.7 million or 4.2 percent less than the expenditures budgeted in FY 2023. This is primarily due to decreases in funding for Professional Services and Other Contractual Services.

Equipment

The proposed equipment budget of \$2.6 million is \$2.5 million less than the amount budgeted in FY 2023. The decrease is primarily attributable to a decrease of \$2.0 million to the budget to purchase new fleet vehicles and equipment. There is also a \$375 thousand decrease within Information Technology reflective of a project funded in the prior year.

Debt Service

The total debt service requirement for FY 2024 is \$38.2 million, which is \$3.7 million or 10.7 percent more than the amount budgeted in FY 2023. Reflective of our growing Capital Improvement Program and increasing financing costs in FY 2024, payments to the State of Hawaii Department of Health State Revolving Fund (SRF) loan program are scheduled to increase by \$3.2 million and principal and interest payments on the department's bonds payable is increasing by \$460 thousand.

Fixed Charges

The proposed fixed charges budget of \$63.9 million is \$4.4 million or 7.5 percent more than the amount budgeted for FY 2023. This increase is primarily due to increased electricity costs of \$5.4 million to power the department's pumping stations, reservoirs, and facilities; and a \$1.0 million decrease in employee benefits (Employee Retirement System – ERS, Health Benefits and Other Post-Employment Benefits – OPEB).

PART II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET

A CIP budget of \$212.6 million is proposed for FY 2024 to be funded as follows: Operating Fund¹ – \$34.7 million; Improvement Fund² – \$50.4 million; Special Expendable Fund³ – \$40.8 million; Extramural Fund⁴ – \$47.4 million; and State of Hawaii Department of Health State Revolving Fund (SRF) loan program⁵ – \$39.4 million.

Highlights of the proposed CIP for next year includes \$15.0 million for research and development; \$60.1 million for the renewal and replacement of various BWS pipelines, facilities, and pumping stations; and \$102.4 million for capacity expansion. The CIP cost categories and project descriptions are summarized starting on page CIP-SUMM.

The BWS is actively seeking external funding to finance the following FY24 CIP projects:

Project Number	Project Title	Cost
11	Kahilina Place and Aiea Heights Drive Water System Improvements	\$5,100,000
38	Honolulu District 42-Inch Mains - Liliha to Moiliili	\$3,000,000
39	Honolulu District 42-Inch Mains - Liliha to Moiliili AIS	\$300,000

NOTES

¹ "Operating Fund" is defined as rate revenue or cash

² "Improvement Fund" is defined as the proceeds of Water System Revenue Bonds

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 "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

⁵ "State of Hawaii Department of Health State Revolving Fund (SRF) loan program" is defined as project loans from the State of Hawaii

Red Hill Bulk Fuel Storage Facility Crisis and BWS Capital Program

As a result of the fuel release and water contamination crisis stemming from the Red Hill Bulk Fuel Storage Facility (RHBFSF), the BWS has already incurred and continues to incur costs in response. The contamination of the Moanalua-Waimalu aquifer led to the BWS decision to shut down its Halawa Shaft, Halawa Wells, and Aiea Wells as a precaution to protect our customers from the imminent peril posed by the RHBFSF and its detrimental impact on the irreplaceable groundwater resources in the area. In doing so, this has reduced our capacity to provide water service to the metropolitan Honolulu and Aiea-Halawa areas. Under normal operations, Halawa Shaft provides 20% of our water supply, serving almost half the population of metropolitan Honolulu, while Halawa Wells and Aiea Wells provide about 50% of the supply capacity for the Aiea-Halawa area. The lack of data and information on underground fuel migration or contamination plume in the aquifer makes it difficult to determine if Halawa Shaft, Halawa Wells, and Aiea Wells can ever be turned on safely to pump water into these two water systems. As a precaution, these three wells are shutdown indefinitely.

The BWS continues its efforts to respond to this unprecedented situation and this FY 2024 Capital Improvement Program budget reflects these efforts. We have programmed projects aimed at increasing the water supply and protecting our existing water resources. The projects are:

- Research and Development: Drill, case, install test pump and sample one exploratory well at Newtown 550' as possible replacement sources for the loss of Halawa Shaft due to the Red Hill fuel contamination.
- Research and Development: Drill and case up to ten (10) monitoring wells for use as "sentinel" wells to warn of the presence of an underground fuel plume from the Red Hill fuel contamination.
- Capacity Expansion, Pumps: The next phase of funding to support the development of a new production source at our Aiea 497' reservoir site.

Special Expendable Fund – Affordable & Homeless Housing Waiver Program

Water system facilities charges are levied against all new developments requiring water supplies from the BWS or additional water supplies from existing water services except those where the developer installs, at its own cost, a complete water system including source, transmission, and daily storage facilities. Developers pay the water system facilities charges before water services are made available to the developments. Such water system facilities charges are deposited in the Special Expendable Fund and do not constitute Rate Revenues. The amount of fees and charges deposited into the Special Expendable Fund varies from year to year. The fund is restricted in use to funding water system expansion projects.

The Special Expendable fund balance on June 30, 2022 was \$68,249,567. The Special Expendable fund is being used to fund \$33.8 million of CIP expansion projects in FY 2023 and \$40.1 million of CIP expansion projects in FY 2024. A projected ending balance of \$1.7 million will be unappropriated.

Chair and Members
Board of Water Supply
May 22, 2023
Page 8

On September 15, 2018, the Board of Water Supply adopted a revision to the Schedule of Rates and Charges for the Furnishing of Water Service to include a waiver of Water System Facilities Charges and new meter cost for qualified on-site affordable and homeless dwelling units, up to 500 dwelling units per fiscal year and fire sprinkler retrofit projects. The rates and waivers were extended on April 24, 2023, to be remain effective until superseded. To date, the program has waived these fees and charges for 1,635 affordable housing and homeless dwelling units and one (1) fire sprinkler retrofit project. This equates to \$2,171,759.29 in fees and charges waived. The long-term effect of this loss of fees could result in the Operating Fund absorbing the cost of expansion projects in the future.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read 'Ernest Y.W. Lau', is positioned above the printed name.

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

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SUMMARY OF ALL FUNDS

OPERATING BUDGET

**CAPITAL IMPROVEMENT
PROGRAM BUDGET**

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**Board of Water Supply
Summary of All Funds
Fiscal Year 2024**

	Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Fund	Extramural Fund	TOTAL - All Funds
Operating Budget	241,683,964	-	-	-	-	241,683,964
Capital Improvement Program	34,696,000	39,380,000	40,750,000	50,410,000	47,410,000	212,646,000
Total - All Funds	276,379,964	39,380,000	40,750,000	50,410,000	47,410,000	454,329,964

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**BOARD OF WATER SUPPLY
OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET
FISCAL YEAR 2024/
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II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET

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**Board of Water Supply
Total Budget
Fiscal Year 2024**

Department Summary

Resources and Expenditures	FY2022 Actual	FY2023 Adopted Budget	FY2024 Proposed Budget
Beginning Balance	50,002,283	43,468,351	29,838,777
Revenues	251,787,603	258,560,000	263,060,000
Lapses/Adjustments	15,383,931	0	0
Total Resources	317,173,817	302,028,351	292,898,777
Operating Expenditures	200,861,070	237,240,444	241,683,964
Capital Program	55,310,004	52,351,325	34,696,000
Total Expenditures	256,171,074	289,591,769	276,379,964
Ending Balance	61,002,743	12,436,582	16,518,813

**Board of Water Supply
Operating Budget Revenues
Fiscal Year 2024**

Department Summary

Revenues	FY2022 Actual	FY2023 Adopted Budget	FY2024 Proposed Budget
Metered Revenue - Potable Water	238,799,197	243,000,000	248,000,000
Metered Revenue - Recycled Water (R-1)	3,353,677	3,500,000	3,500,000
Metered Revenue - Recycled Water (RO)	2,782,482	2,700,000	3,100,000
Private Fire Protection	587,391	650,000	540,000
Ocean Cooling Revenues	1,420,630	1,500,000	1,500,000
Other Water Revenues	203,044	280,000	200,000
Revenues from Water Service Installations	421,041	500,000	420,000
Revenues from Merchandising & Jobbing (M&J)	303,718	300,000	300,000
Interest Income - Operating	3,812,239	5,800,000	5,200,000
Miscellaneous Non-Operating Revenue	(9,428)	140,000	100,000
Non-Operating Rental Income	113,612	190,000	200,000
Total	251,787,603	258,560,000	263,060,000

**Board of Water Supply
Operating Budget Revenues
Fiscal Year 2024**

Department Summary

Expenditure Classification	FY2022 Actual	FY2023 Adopted Budget	FY2024 Proposed Budget
Personnel Services	41,078,141	51,445,200	53,924,173
Materials, Supplies and Services	68,013,514	86,712,744	83,042,026
Equipment	3,728,520	5,087,100	2,562,600
Departmental Fixed Charges	57,482,165	59,484,500	63,933,000
Debt Service	30,558,729	34,510,900	38,222,165
Operating Expenditures	200,861,070	237,240,444	241,683,964
Transfer to Capital Improvement Program	55,310,004	52,351,325	34,696,000
Total Expenditures	256,171,074	289,591,769	276,379,964

**Board of Water Supply
Operating Budget Revenues
Fiscal Year 2024**

Department Summary by Division/Office

Expenditure Classification (Personnel Services, Materials, Supplies and Services, and Equipment)	FY2022 Actual	FY2023 Adopted Budget	FY2024 Proposed Budget
Manager's Office	780,179	1,008,850	1,064,560
Executive Support Office	8,402,458	9,913,447	15,095,588
Communications Office	1,633,643	1,457,866	1,566,472
Human Resources Office	617,398	845,900	807,300
Water Quality	14,512,686	15,642,285	7,078,810
Customer Care	3,993,223	5,263,140	5,361,750
Land	371,745	485,700	488,900
Water Resources	11,708,873	14,415,075	15,815,555
Field Operations	27,008,668	37,381,490	37,576,235
Capital Projects	6,981,608	9,196,800	9,243,763
Water System Operations	17,308,288	19,818,275	18,599,620
Information Technology	14,699,346	21,914,066	20,715,446
Finance	4,802,060	5,902,150	6,114,800
Total of Divisions and Offices	112,820,175	143,245,044	139,528,799
Departmental Fixed Charges	57,482,165	59,484,500	63,933,000
Debt Service	30,558,729	34,510,900	38,222,165
Total Operating Expenditures	200,861,070	237,240,444	241,683,964

**Board of Water Supply
Expenses by Account Type
Fiscal Year 2024**

Department Summary by Division/Office

Resources and Expenditures	Personnel Services	Materials, Supplies, and Services	Equipment	Debt Services and Dept Fixed Charges	FY2024 Proposed Budget
Manager's Office	681,700	382,860	0	0	1,064,560
Executive Support Office	1,428,200	13,667,388	0	0	15,095,588
Communications Office	972,700	593,772	0	0	1,566,472
Human Resources Office	673,300	134,000	0	0	807,300
Water Quality	2,038,700	4,995,110	45,000	0	7,078,810
Customer Care	4,278,200	1,071,550	12,000	0	5,361,750
Land	350,600	138,300	0	0	488,900
Water Resources	2,878,013	12,887,542	50,000	0	15,815,555
Field Operations	19,158,600	18,364,735	52,900	0	37,576,235
Capital Projects	6,521,700	2,572,063	150,000	0	9,243,763
Water System Operations	7,711,100	9,052,820	1,835,700	0	18,599,620
Information Technology	4,526,960	15,807,486	381,000	0	20,715,446
Finance	2,704,400	3,374,400	36,000	0	6,114,800
Total:	53,924,173	83,042,026	2,562,600	0	139,528,799
Fixed Charges and Debt Service	0	0	0	102,155,165	102,155,165
Grand Total	53,924,173	83,042,026	2,562,600	102,155,165	241,683,964

**Honolulu Board of Water Supply
Position Budgets
Fiscal Year 2024**

Department Summary by Division/Office

Division Name	Positions				Salary			
	Perm	LTA	PSC	Total	Perm	LTA	PSC	Total
Manager's Office	6.00	0.00	1.00	7.00	679,714	0	1	679,715
Executive Support Office	19.00	0.00	1.00	20.00	1,235,509	0	68,556	1,304,065
Communications Office	11.00	0.00	1.00	12.00	836,327	0	38,328	874,655
Human Resources Office	10.00	0.00	0.00	10.00	668,301	0	0	668,301
Water Quality	32.00	0.00	0.00	32.00	1,888,731	0	0	1,888,731
Customer Care	70.00	2.00	0.00	72.00	3,689,166	82,884	0	3,772,050
Land	5.00	0.00	0.00	5.00	323,535	0	0	323,535
Water Resources	36.00	0.00	0.00	36.00	2,749,197	0	0	2,749,197
Field Operations	258.00	0.00	0.00	258.00	16,040,557	0	0	16,040,557
Capital Projects	81.00	0.00	0.00	81.00	5,808,453	0	0	5,808,453
Water System Operations	108.00	0.00	2.00	110.00	6,759,610	0	24,654	6,784,264
Information Technology	55.00	0.00	3.00	58.00	4,270,104	0	74,126	4,344,230
Finance	42.00	0.00	0.00	42.00	2,609,815	0	0	2,609,815
Sum:	733.00	2.00	8.00	743.00	47,559,018	82,884	205,665	47,847,567

Board of Water Supply
Operating Budget
Debt Service
Fiscal Year 2024

DEBT SERVICE

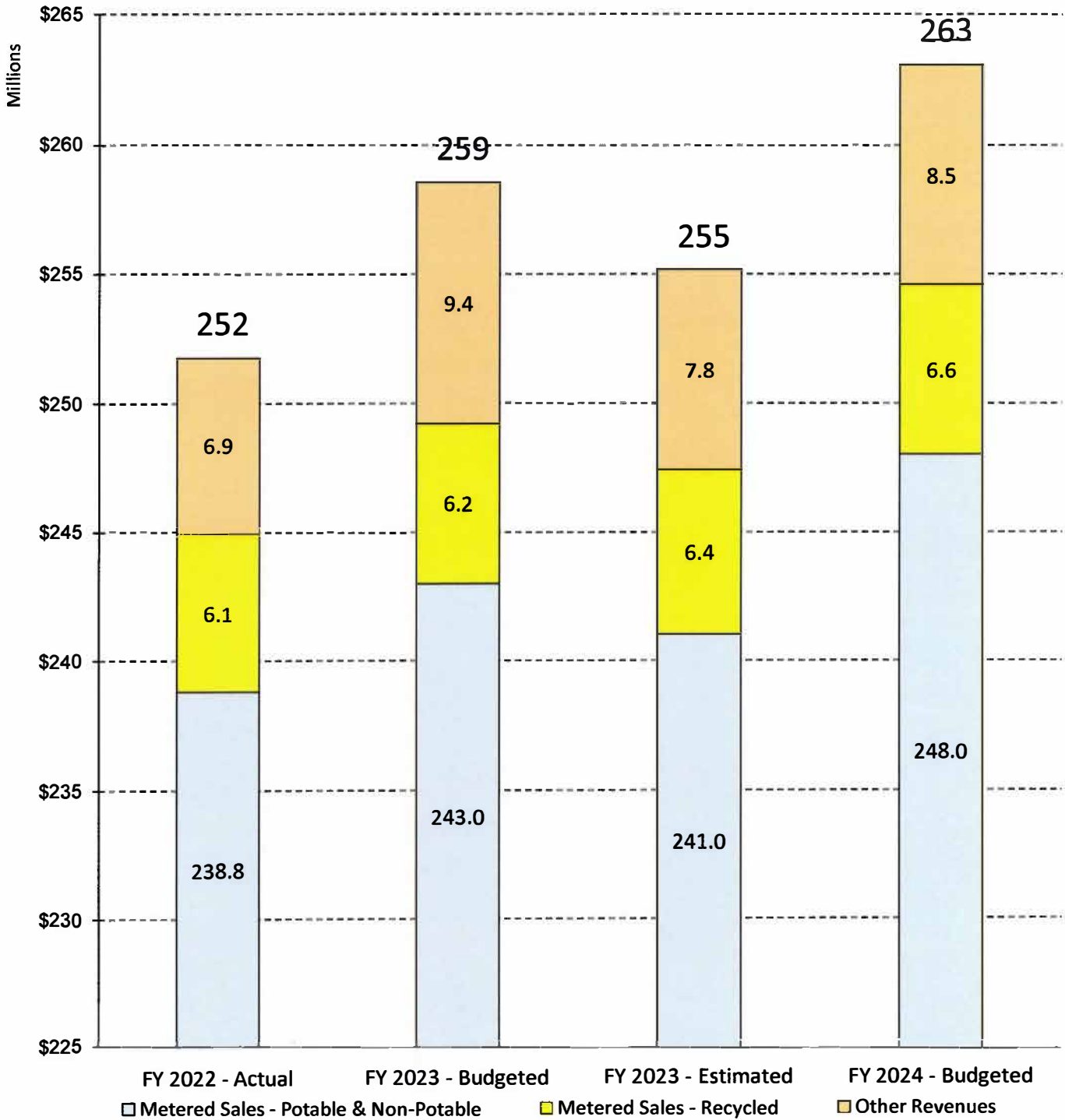
ISSUE	FY 2022 Actual	FY 2023 Budget	FY 2024 Budget
Water System Revenue Bonds:			
Series 2012A	8,962,000	-	-
Series 2014 A & B	5,112,000	8,555,000	8,550,000
Series 2020 A & B	4,791,000	4,798,000	4,796,000
Series 2021 A & B	3,710,000	7,142,000	7,145,000
Series 2022 A & B		6,514,000	6,520,165
Series 2023			872,000
Debt Service - Bonds Payable	22,575,000	27,009,000	27,883,165
Notes Payable:			
SRF Loans	8,197,000	8,791,900	10,339,000
Debt Service - Notes Payable	8,197,000	8,791,900	10,339,000
Total	30,772,000	35,800,900	38,222,165

Bond Issues:

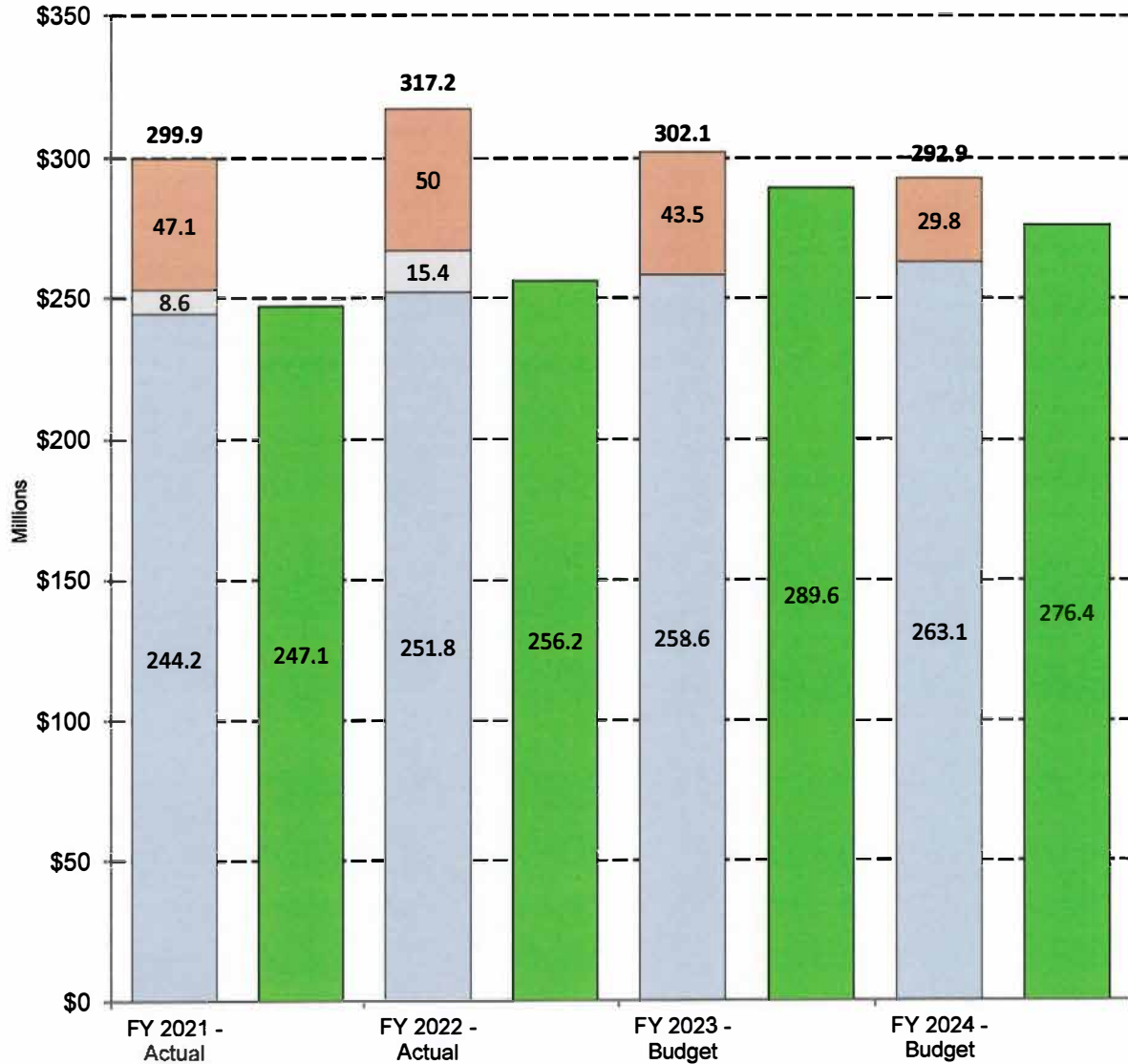
<u>Year Issued</u>	<u>Par Amount</u>	<u>Fiscal Year Expires</u>	<u>Years</u>
2012A	\$ 27,115,000	2022	10
2014A	\$ 101,655,000	2031	17
2014B	\$ 25,085,000	2032	18
2020A	\$ 59,105,000	2050	30
2020B	\$ 47,530,000	2034	14
2021A	\$ 50,020,000	2051	30
2021B	\$ 43,515,000	2032	11
2022A	\$ 82,700,000	2052	30
2022B	\$ 52,560,000	2036	14
2023	\$ 17,425,000	2053	30

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**BOARD OF WATER SUPPLY
OPERATING FUND REVENUES
FISCAL YEAR 2024**



**BOARD OF WATER SUPPLY
TOTAL RESOURCES VS. TOTAL EXPENDITURES
FISCAL YEAR 2024**



□ Revenues

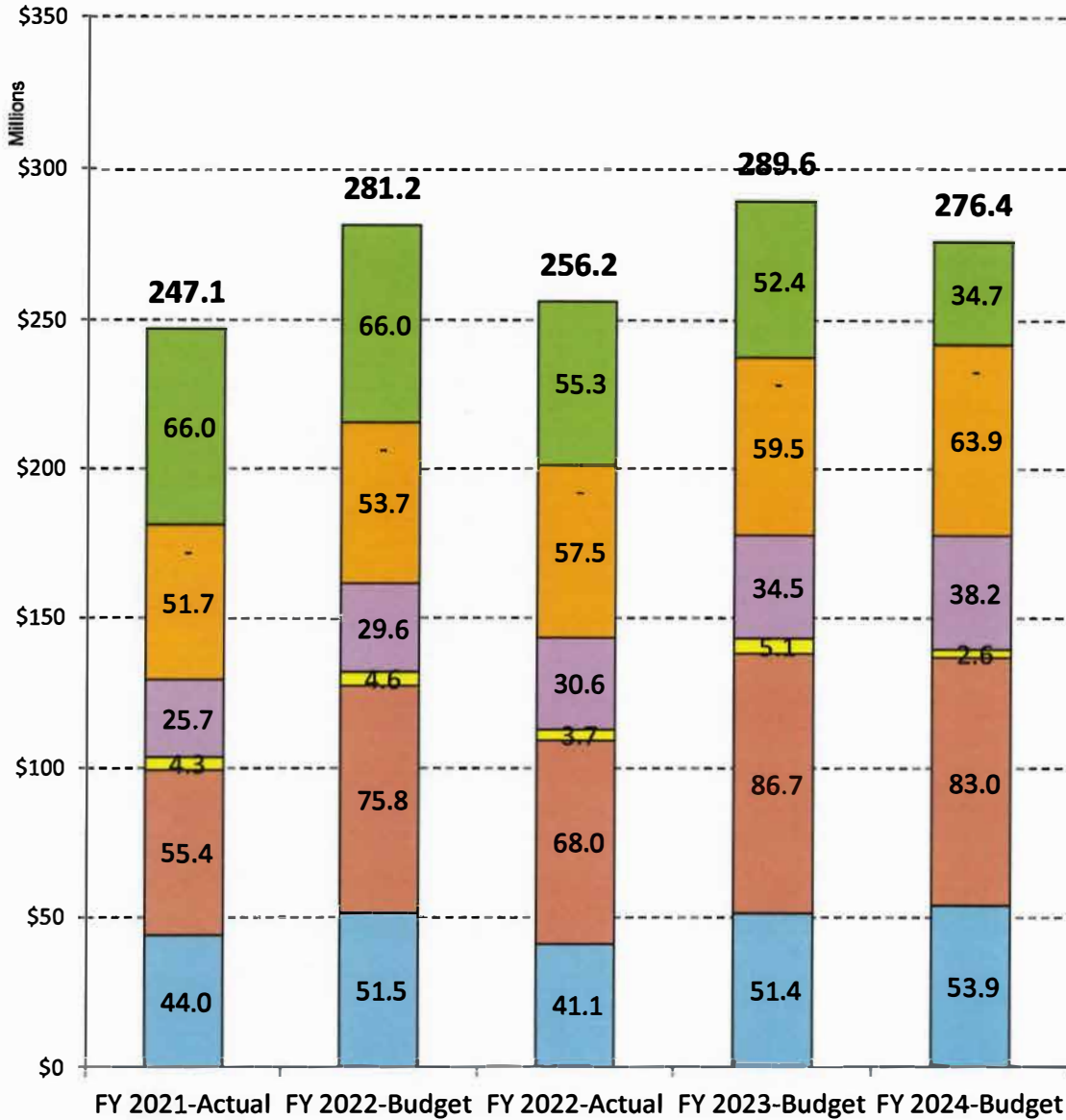
□ Lapses / Adjustments

■ Fund Balance

■ Expenditures

Fiscal Year 2024	
Fund Balance 7/1/2023	\$ 29,838,777
Revenues	\$ <u>263,060,000</u>
Total Resources	\$ 292,898,777
Total Expenditures	\$ <u>-276,379,964</u>
Fund Balance 6/30/2024	\$ <u>16,518,813</u>

**BOARD OF WATER SUPPLY
OPERATING BUDGET EXPENDITURES (INCLUDING CIP)
FISCAL YEAR 2024**



- Personnel Srv.
- MS&S
- Equipment
- Debt Service
- Fixed Charges
- CIP

Fiscal Year 2024	
CIP	\$ 34,696,000
Fixed Charges	\$ 63,933,000
Debt Service	\$ 38,222,165
Equipment	\$ 2,562,600
MS&S	\$ 83,042,026
Personnel Svcs.	\$ 53,924,173
Total	\$ 276,379,964

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PART I

**OPERATING
BUDGET**

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**Board of Water Supply
Operating Budget
Fiscal Year 2024**

OMCE - Manager's Office

Division/Office's Activity

The Manager and Chief Engineer is the executive head of the Board of Water Supply who administers the affairs of the department in accordance with policies and regulations adopted by the Board and the provisions of the City Charter.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	609,830	533,800	620,800	679,700	58,900
4120 - Overtime	1,089	2,000	2,000	2,000	0
4130 - Miscellaneous (Payroll)	5,600	0	0	0	0
Personnel Services	616,520	535,800	622,800	681,700	58,900
4160 - Meals; Mileage & Uniform Allowances	70	0	0	0	0
4250 - Other Contractual Services	3,971	24,600	24,600	4,600	(20,000)
4255 - Other Services	79	58,800	58,800	58,800	0
4260 - Advertising & Publication of Notices	0	500	500	500	0
4265 - Printing	0	1,000	1,000	1,000	0
4270 - Professional Services	93,496	35,000	35,000	35,000	0
4430 - Miscellaneous Supplies	1,871	5,000	5,000	5,000	0
4460 - Other Materials & Supplies	12,437	10,000	10,000	10,000	0
4500 - Education and Training	20	0	0	1,400	1,400
4720 - Conference Travel & Expenses	0	38,240	37,640	37,500	(140)
4815 - Repair & Maint - Equipment	0	3,000	3,000	3,000	0
4910 - Miscellaneous Fees & Registration	51,717	210,510	210,510	226,060	15,550
Materials, Supplies and Services	163,659	386,650	386,050	382,860	(3,190)
Total OMCE - Manager's Office	780,179	922,450	1,008,850	1,064,560	55,710

Notes

**Board of Water Supply
Operating Budget
Fiscal Year 2024**

ESO - Executive Support Office

Division/Office's Activity

The Executive Support Office is responsible for the development of the annual departmental operating budget; ensures that procurement of all goods and services and construction are in compliance with Hawaii Revised Statutes (HRS)103D; and, administers the department's safety, risk management, and security programs.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	1,041,437	1,267,100	1,310,700	1,304,200	(6,500)
4120 - Overtime	102,688	54,000	57,000	124,000	67,000
4130 - Miscellaneous (Payroll)	50	36,000	0	0	0
Personnel Services	1,144,175	1,357,100	1,367,700	1,428,200	60,500
4160 - Meals; Mileage & Uniform Allowances	4,101	1,150	1,000	1,000	0
4250 - Other Contractual Services	962,717	2,742,330	3,227,850	3,385,650	157,800
4251 - Software Licenses and Maintenance	28,000	35,000	35,000	35,000	0
4265 - Printing	299	600	600	300	(300)
4270 - Professional Services	1,734,701	1,379,200	1,490,000	6,270,000	4,780,000
4430 - Miscellaneous Supplies	48,637	25,600	10,000	20,000	10,000
4460 - Other Materials & Supplies	535	0	0	0	0
4480 - Postage	52	0	0	0	0
4500 - Education and Training	1,937	4,900	14,675	40,335	25,660
4720 - Conference Travel & Expenses	0	3,500	500	500	0
4805 - Repair & Maint - Structures	5,631	25,000	0	0	0
4910 - Miscellaneous Fees & Registration	2,697	3,650	3,350	3,350	0
5700 - Insurance	1,173,580	1,110,835	1,242,772	1,391,253	148,481
6340 - Workers Compensation Benefits	2,130,986	1,316,000	1,270,000	1,270,000	0
6350 - Claims for Pers Injuries & Prop Damage	1,162,343	1,000,000	1,250,000	1,250,000	0
8050 - Equipment (under \$5,000)	2,067	25,000	0	0	0
Materials, Supplies and Services	7,258,283	7,672,765	8,545,747	13,667,388	5,121,641
1270 - General Plant & Equip (over \$5,000)	0	25,000	0	0	0
Equipment	0	25,000	0	0	0
Total ESO - Executive Support Office	8,402,458	9,054,865	9,913,447	15,095,588	5,182,141

Notes

**Board of Water Supply
Operating Budget
Fiscal Year 2024**

ESO - Executive Support Office

5105 - Executive Support Office - Administration

Section's Activity

The Executive Support Office administers and manages programs in areas such as budget, position management, reorganization, procurement, security, risk management and safety.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	149,678	232,800	153,900	233,200	79,300
4120 - Overtime	12,188	7,500	2,500	2,500	0
4130 - Miscellaneous (Payroll)	50	0	0	0	0
Personnel Services	161,916	240,300	156,400	235,700	79,300
4160 - Meals; Mileage & Uniform Allowances	290	0	0	0	0
4250 - Other Contractual Services	33,174	16,000	23,020	17,020	(6,000)
4270 - Professional Services	367,400	209,200	220,000	5,220,000	5,000,000
4430 - Miscellaneous Supplies	4,862	3,000	3,000	3,000	0
4500 - Education and Training	0	500	500	500	0
4910 - Miscellaneous Fees & Registration	6	0	0	0	0
Materials, Supplies and Services	405,732	228,700	246,520	5,240,520	4,994,000
Total Executive Support Office - Administration	567,648	469,000	402,920	5,476,220	5,073,300

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2024**

ESO - 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. This section 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	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	245,050	336,200	343,700	364,800	21,100
4120 - Overtime	4,745	6,000	5,000	5,000	0
Personnel Services	249,795	342,200	348,700	369,800	21,100
4160 - Meals; Mileage & Uniform Allowances	297	750	500	500	0
4250 - Other Contractual Services	8,025	17,730	18,630	24,630	6,000
4270 - Professional Services	1,367,301	1,170,000	1,270,000	1,050,000	(220,000)
4430 - Miscellaneous Supplies	8,389	7,600	7,000	7,000	0
4460 - Other Materials & Supplies	70	0	0	0	0
4500 - Education and Training	1,857	2,900	13,175	38,835	25,660
4720 - Conference Travel & Expenses	0	3,500	500	500	0
4910 - Miscellaneous Fees & Registration	2,691	3,650	3,350	3,350	0
5700 - Insurance	1,173,580	1,110,835	1,242,772	1,391,253	148,481
6340 - Workers Compensation Benefits	2,130,986	1,316,000	1,270,000	1,270,000	0
6350 - Claims for Pers Injuries & Prop Damage	1,162,343	1,000,000	1,250,000	1,250,000	0
Materials, Supplies and Services	5,855,540	4,632,965	5,075,927	5,036,068	(39,859)
Total Risk Management	6,105,335	4,975,165	5,424,627	5,405,868	(18,759)

Budget Highlights

**Board of Water Supply
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ESO - Executive Support Office

5120 - Security Office

Section's Activity

The Security section develops, coordinates, and maintains security measures and systems to protect BWS employees and facilities. It conducts vulnerability assessments, installs detection systems, and develops emergency response plans. This section oversees the development and installation of security enhancements and equipment for BWS facilities. Further, this section monitors facilities from the central security center through the use of security guards, cameras, sensor alarms, and ID cards. The section coordinates protective activities with external agencies such as the Honolulu Police and Fire Departments, State Civil Defense and Honolulu Department of Emergency Services, and other Homeland Security organizations.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	152,493	92,100	242,400	112,600	(129,800)
4120 - Overtime	798	6,500	6,500	6,500	0
Personnel Services	153,291	98,600	248,900	119,100	(129,800)
4160 - Meals; Mileage & Uniform Allowances	116	400	500	500	0
4250 - Other Contractual Services	920,677	2,708,600	3,186,200	3,344,000	157,800
4265 - Printing	23	0	0	0	0
4430 - Miscellaneous Supplies	35,284	15,000	0	10,000	10,000
4805 - Repair & Maint - Structures	5,631	25,000	0	0	0
8050 - Equipment (under \$5,000)	0	25,000	0	0	0
Materials, Supplies and Services	961,731	2,774,000	3,186,700	3,354,500	167,800
1270 - General Plant & Equip (over \$5,000)	0	25,000	0	0	0
Equipment	0	25,000	0	0	0
Total Security Office	1,115,022	2,897,600	3,435,600	3,473,600	38,000

Budget Highlights

**Board of Water Supply
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ESO - Executive Support Office

5125 - Management and Budget

Section's Activity

The Management and Budget section is responsible for the development and execution of the annual operating budget. This section develops water and other revenue projections and conducts various revenue, budgetary, financial and statistical studies of the department.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	188,798	218,000	214,000	204,400	(9,600)
4120 - Overtime	289	4,000	3,000	3,000	0
4130 - Miscellaneous (Payroll)	0	36,000	0	0	0
Personnel Services	189,086	258,000	217,000	207,400	(9,600)
4250 - Other Contractual Services	359	0	0	0	0
4251 - Software Licenses and Maintenance	28,000	35,000	35,000	35,000	0
4265 - Printing	277	600	600	300	(300)
4430 - Miscellaneous Supplies	31	0	0	0	0
4460 - Other Materials & Supplies	279	0	0	0	0
Materials, Supplies and Services	28,947	35,600	35,600	35,300	(300)
Total Management and Budget	218,033	293,600	252,600	242,700	(9,900)

Budget Highlights

**Board of Water Supply
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ESO - Executive Support Office

5140 - Procurement

Section's Activity

The Procurement section assists all BWS divisions and offices with the procurement of construction, goods, services, and professional services and to ensure that such procurements are conducted in accordance with Hawaii Revised Statutes Chapter 103D and the Hawaii Administrative Rules.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	305,417	388,000	356,700	389,200	32,500
4120 - Overtime	84,669	30,000	40,000	107,000	67,000
Personnel Services	390,086	418,000	396,700	496,200	99,500
4160 - Meals; Mileage & Uniform Allowances	3,398	0	0	0	0
4250 - Other Contractual Services	480	0	0	0	0
4430 - Miscellaneous Supplies	70	0	0	0	0
4460 - Other Materials & Supplies	187	0	0	0	0
4480 - Postage	52	0	0	0	0
4500 - Education and Training	79	1,500	1,000	1,000	0
8050 - Equipment (under \$5,000)	2,067	0	0	0	0
Materials, Supplies and Services	6,333	1,500	1,000	1,000	0
Total Procurement Section	396,419	419,500	397,700	497,200	99,500

Budget Highlights

**Board of Water Supply
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Fiscal Year 2024**

COMM - Communications Office

Division/Office's Activity

The Communications Office develops departmental policies and programs for strategic internal and external communications, including: community relations, water education and public information, news releases, speeches, bulletins, advertisements, public service announcements, brochures, annual and special reports; notifies news media of water emergencies; coordinates and maintains effective media communications programs for the department; receives, processes, and resolves complaints; develops and produces the employee newsletter; conducts orientations and manages the department's water education and facility tour program; coordinates community affairs programs and special events; and provides executive level strategic communications counsel and assistance to the Board, Manager, and departmental units in public affairs matters.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	856,276	811,800	788,400	874,600	86,200
4120 - Overtime	42,279	39,172	45,078	60,000	14,922
4130 - Miscellaneous (Payroll)	50	27,604	28,708	38,100	9,392
Personnel Services	898,605	878,576	862,186	972,700	110,514
4160 - Meals; Mileage & Uniform Allowances	1,430	2,500	2,500	1,200	(1,300)
4250 - Other Contractual Services	624,728	345,504	383,559	410,286	26,727
4251 - Software Licenses and Maintenance	33,671	11,059	23,516	24,583	1,067
4265 - Printing	34,356	64,950	47,100	25,300	(21,800)
4270 - Professional Services	0	0	59,200	46,200	(13,000)
4430 - Miscellaneous Supplies	8,643	2,000	2,176	2,352	176
4460 - Other Materials & Supplies	29,780	45,806	61,006	57,815	(3,191)
4480 - Postage	235	15,660	660	660	0
4500 - Education and Training	200	5,030	3,100	3,722	622
4815 - Repair & Maint - Equipment	0	1,080	1,080	1,080	0
4910 - Miscellaneous Fees & Registration	1,995	1,018	7,550	9,550	2,000
8050 - Equipment (under \$5,000)	0	2,256	4,233	11,024	6,791
Materials, Supplies and Services	735,038	496,863	595,680	593,772	(1,908)
Total COMM - Communications Office	1,633,643	1,375,439	1,457,866	1,566,472	108,606

Notes

**Board of Water Supply
Operating Budget
Fiscal Year 2024**

HRO - Human Resources Office

Division/Office's Activity

The Human Resources Office administers and manages BWS human resources programs in areas including recruitment, examination and selection, employee benefits, transactions and personnel record maintenance, labor relations, performance evaluation, classification and compensation, and staff development. In addition, it provides staff support for position management and review of reorganizations.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	558,540	588,900	627,500	668,300	40,800
4120 - Overtime	33,987	5,000	5,000	5,000	0
Personnel Services	592,527	593,900	632,500	673,300	40,800
4160 - Meals; Mileage & Uniform Allowances	1,152	300	300	300	0
4250 - Other Contractual Services	1,098	30,000	130,000	30,000	(100,000)
4260 - Advertising & Publication of Notices	3,349	5,000	5,000	10,000	5,000
4430 - Miscellaneous Supplies	2,156	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	2,146	6,000	6,000	6,000	0
4480 - Postage	0	100	100	100	0
4500 - Education and Training	6,264	60,000	60,000	75,000	15,000
4720 - Conference Travel & Expenses	7,916	16,100	8,400	9,000	600
4815 - Repair & Maint - Equipment	107	550	550	550	0
4910 - Miscellaneous Fees & Registration	683	550	550	550	0
Materials, Supplies and Services	24,871	121,100	213,400	134,000	(79,400)
Total HRO - Human Resources Office	617,398	715,000	845,900	807,300	(38,600)

Notes

**Board of Water Supply
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WQ - Water Quality

Division/Office's Activity

The Water Quality Division ensures the department's compliance with all Federal and State drinking water regulations and environmental laws, rules and regulations, and manages special water quality studies.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	1,546,387	1,775,400	1,919,900	1,888,700	(31,200)
4120 - Overtime	154,684	200,000	200,000	150,000	(50,000)
4130 - Miscellaneous (Payroll)	50	60,000	0	0	0
Personnel Services	1,701,121	2,035,400	2,119,900	2,038,700	(81,200)
4160 - Meals; Mileage & Uniform Allowances	7,391	11,410	13,510	10,010	(3,500)
4250 - Other Contractual Services	575,604	704,100	940,800	1,197,800	257,000
4270 - Professional Services	11,966,673	10,291,000	12,191,000	3,435,000	(8,756,000)
4430 - Miscellaneous Supplies	14	500	2,500	2,500	0
4460 - Other Materials & Supplies	160,219	130,000	257,000	261,000	4,000
4500 - Education and Training	2,052	10,300	11,150	7,250	(3,900)
4720 - Conference Travel & Expenses	150	2,550	4,175	3,700	(475)
4815 - Repair & Maint - Equipment	11,986	29,250	39,250	28,000	(11,250)
4910 - Miscellaneous Fees & Registration	9,574	23,700	38,000	31,700	(6,300)
8050 - Equipment (under \$5,000)	5,851	8,400	1,000	18,150	17,150
Materials, Supplies and Services	12,739,514	11,211,210	13,498,385	4,995,110	(8,503,275)
1270 - General Plant & Equip (over \$5,000)	72,051	74,000	24,000	45,000	21,000
Equipment	72,051	74,000	24,000	45,000	21,000
Total WQ - Water Quality	14,512,686	13,320,610	15,642,285	7,078,810	(8,563,475)

Notes

**Board of Water Supply
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WQ - Water Quality

5250 - Water Quality Administration

Section's Activity

The Water Quality Administration section administers the department's compliance with all safe drinking water regulations, environmental laws, and rules and regulations.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	364,201	337,800	380,900	314,100	(66,800)
Personnel Services	364,201	337,800	380,900	314,100	(66,800)
4160 - Meals; Mileage & Uniform Allowances	0	10	10	10	0
4250 - Other Contractual Services	11,476	20,000	20,000	20,000	0
4270 - Professional Services	11,966,673	10,125,000	12,030,000	3,240,000	(8,790,000)
4430 - Miscellaneous Supplies	14	500	500	500	0
4460 - Other Materials & Supplies	30,133	7,000	6,000	6,000	0
4500 - Education and Training	40	1,500	4,100	1,400	(2,700)
4720 - Conference Travel & Expenses	0	1,550	3,000	1,000	(2,000)
4815 - Repair & Maint - Equipment	4,874	2,000	2,000	2,000	0
4910 - Miscellaneous Fees & Registration	1,900	0	0	0	0
8050 - Equipment (under \$5,000)	3,678	0	0	0	0
Materials, Supplies and Services	12,018,787	10,157,560	12,065,610	3,270,910	(8,794,700)
Total Water Quality Administration	12,382,988	10,495,360	12,446,510	3,585,010	(8,861,500)

Budget Highlights

**Board of Water Supply
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WQ - Water Quality

5251 - Chemical Laboratory

Section's Activity

The Chemical Laboratory performs required water quality testing and monitoring to conform to federal and state regulations and monitors proposed rules for departmental impact. This section supports the department's operational testing requirements and special water quality studies.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	401,627	538,300	608,900	576,700	(32,200)
4120 - Overtime	56,565	50,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	0	30,000	0	0	0
Personnel Services	458,192	618,300	658,900	626,700	(32,200)
4160 - Meals; Mileage & Uniform Allowances	1,232	1,400	1,500	1,500	0
4250 - Other Contractual Services	549,184	665,600	901,300	1,160,300	259,000
4270 - Professional Services	0	91,000	86,000	105,000	19,000
4430 - Miscellaneous Supplies	0	0	2,000	2,000	0
4460 - Other Materials & Supplies	36,443	0	45,000	45,000	0
4500 - Education and Training	2,012	1,600	3,250	3,050	(200)
4720 - Conference Travel & Expenses	150	1,000	200	1,500	1,300
4815 - Repair & Maint - Equipment	0	6,750	15,750	16,000	250
4910 - Miscellaneous Fees & Registration	2,113	7,700	9,100	9,800	700
8050 - Equipment (under \$5,000)	0	2,000	1,000	7,350	6,350
Materials, Supplies and Services	591,134	777,050	1,065,100	1,351,500	286,400
Total Chemical Laboratory	1,049,326	1,395,350	1,724,000	1,978,200	254,200

Budget Highlights

**Board of Water Supply
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Fiscal Year 2024**

WQ - Water Quality

5252 - Microbiological Laboratory

Section's Activity

The Microbiological Laboratory performs the required bacteriological water quality testing and monitoring to conform to federal and state regulations and monitors proposed rules for departmental impact. This section supports the department's operational testing requirements and special water quality studies.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	527,230	618,600	644,300	688,500	44,200
4120 - Overtime	13,673	50,000	50,000	0	(50,000)
4130 - Miscellaneous (Payroll)	50	30,000	0	0	0
Personnel Services	540,953	698,600	694,300	688,500	(5,800)
4160 - Meals; Mileage & Uniform Allowances	3,089	5,000	5,000	5,000	0
4250 - Other Contractual Services	7,249	11,500	12,500	10,500	(2,000)
4270 - Professional Services	0	75,000	75,000	90,000	15,000
4460 - Other Materials & Supplies	74,125	70,000	70,000	75,000	5,000
4500 - Education and Training	0	4,200	2,800	2,800	0
4720 - Conference Travel & Expenses	0	0	975	1,200	225
4815 - Repair & Maint - Equipment	7,113	3,000	4,000	5,000	1,000
4910 - Miscellaneous Fees & Registration	5,561	15,000	27,900	20,900	(7,000)
8050 - Equipment (under \$5,000)	2,173	2,100	0	4,000	4,000
Materials, Supplies and Services	99,310	185,800	198,175	214,400	16,225
1270 - General Plant & Equip (over \$5,000)	0	6,000	24,000	0	(24,000)
Equipment	0	6,000	24,000	0	(24,000)
Total Microbiological Laboratory	640,262	890,400	916,475	902,900	(13,575)

Budget Highlights

**Board of Water Supply
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WQ - Water Quality

5255 - Cross-Connection Control

Section's Activity

The Cross-Connection Control section manages and implements the department's Cross-Connection Control Program, reviews construction plans for cross-connection control requirements, conducts agricultural rate inspections, inspects backflow prevention assembly installations, administers the annual backflow prevention assembly testing program, conducts the backflow prevention assembly tester training course, tests and maintains the department's backflow prevention assemblies, performs public outreach/education on cross-connection control and backflow prevention.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	253,328	280,700	285,800	309,400	23,600
4120 - Overtime	84,447	100,000	100,000	100,000	0
Personnel Services	337,775	380,700	385,800	409,400	23,600
4160 - Meals; Mileage & Uniform Allowances	3,070	5,000	7,000	3,500	(3,500)
4250 - Other Contractual Services	7,695	7,000	7,000	7,000	0
4460 - Other Materials & Supplies	19,519	53,000	136,000	135,000	(1,000)
4500 - Education and Training	0	3,000	1,000	0	(1,000)
4815 - Repair & Maint - Equipment	0	17,500	17,500	5,000	(12,500)
4910 - Miscellaneous Fees & Registration	0	1,000	1,000	1,000	0
8050 - Equipment (under \$5,000)	0	4,300	0	6,800	6,800
Materials, Supplies and Services	30,284	90,800	169,500	158,300	(11,200)
1270 - General Plant & Equip (over \$5,000)	72,051	68,000	0	45,000	45,000
Equipment	72,051	68,000	0	45,000	45,000
Total Cross-Connection Control	440,110	539,500	555,300	612,700	57,400

Budget Highlights

**Board of Water Supply
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CC - Customer Care

Division/Office's Activity

The Customer Care Division handles contacts with customers; prepares applications and contracts for water service; designs service connections; maintains accounts receivable; investigates consumers' service problems; and collects water and sewer bills. It is responsible for reviewing development construction plans, specifications, and reports for conformity with BWS standards; reviewing requests concerning the availability of water; and administering rules and regulations on cross-connection control and environmental requirements.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	3,014,732	3,952,400	3,650,200	3,772,000	121,800
4120 - Overtime	215,751	327,440	378,600	354,500	(24,100)
4130 - Miscellaneous (Payroll)	77,169	119,000	146,000	151,700	5,700
Personnel Services	3,307,652	4,398,840	4,174,800	4,278,200	103,400
4160 - Meals; Mileage & Uniform Allowances	13,859	32,700	25,800	23,410	(2,390)
4220 - Collection Fees	537,725	872,820	850,240	857,440	7,200
4250 - Other Contractual Services	57,166	77,420	66,300	70,100	3,800
4267 - Printed forms	0	3,680	0	0	0
4270 - Professional Services	35	0	0	0	0
4430 - Miscellaneous Supplies	8,363	11,900	32,400	29,000	(3,400)
4460 - Other Materials & Supplies	10,859	14,500	14,000	14,000	0
4480 - Postage	30,789	30,000	30,000	27,000	(3,000)
4500 - Education and Training	0	12,000	0	0	0
4815 - Repair & Maint - Equipment	1,018	11,200	24,400	10,000	(14,400)
4910 - Miscellaneous Fees & Registration	805	6,650	7,900	10,700	2,800
8050 - Equipment (under \$5,000)	1,345	1,700	26,300	29,900	3,600
Materials, Supplies and Services	661,964	1,074,570	1,077,340	1,071,550	(5,790)
1270 - General Plant & Equip (over \$5,000)	23,607	10,000	11,000	12,000	1,000
Equipment	23,607	10,000	11,000	12,000	1,000
Total CC - Customer Care	3,993,223	5,483,410	5,263,140	5,361,750	98,610

Notes

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CC - Customer Care

5300 - Customer Care Administration

Section's Activity

The Customer Care Administration section directs the affairs of the division and provides clerical support to other sections.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	254,901	265,600	367,800	417,900	50,100
4120 - Overtime	2,519	7,440	30,000	29,500	(500)
4130 - Miscellaneous (Payroll)	0	0	0	1,000	1,000
Personnel Services	257,420	273,040	397,800	448,400	50,600
4160 - Meals; Mileage & Uniform Allowances	20	200	0	120	120
4250 - Other Contractual Services	5,522	8,120	15,400	15,400	0
4430 - Miscellaneous Supplies	8,281	10,000	30,000	26,000	(4,000)
4460 - Other Materials & Supplies	367	0	1,000	1,000	0
4480 - Postage	0	0	30,000	27,000	(3,000)
4910 - Miscellaneous Fees & Registration	350	900	900	900	0
8050 - Equipment (under \$5,000)	1,345	1,000	0	0	0
Materials, Supplies and Services	15,885	20,220	77,300	70,420	(6,880)
Total Customer Care Administration	273,305	293,260	475,100	518,820	43,720

Budget Highlights

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CC - Customer Care

5310 - Collection and Credit

Section's Activity

The Collection and Credit section formulates and establishes collection and credit practices and procedures; maintains the cashiering service for payment of water and sewer bills; processes payments made by mail and through charge cards, E-bill, automatic bill payment, and Satellite City Halls; maintains records of delinquent and inactive accounts; performs all field collection and customer service work required to maintain an effective billing and collection program.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	417,771	734,100	670,600	651,900	(18,700)
4120 - Overtime	13,230	25,000	36,000	25,500	(10,500)
4130 - Miscellaneous (Payroll)	58,528	30,000	43,000	18,600	(24,400)
Personnel Services	489,529	789,100	749,600	696,000	(53,600)
4160 - Meals; Mileage & Uniform Allowances	1,020	5,500	2,400	2,890	490
4220 - Collection Fees	537,725	872,820	850,240	857,440	7,200
4250 - Other Contractual Services	16,769	24,100	14,200	15,800	1,600
4267 - Printed forms	0	3,680	0	0	0
4270 - Professional Services	35	0	0	0	0
4430 - Miscellaneous Supplies	82	1,900	2,400	3,000	600
4460 - Other Materials & Supplies	640	2,500	0	0	0
4480 - Postage	30,789	30,000	0	0	0
4815 - Repair & Maint - Equipment	0	1,200	0	0	0
4910 - Miscellaneous Fees & Registration	455	0	0	0	0
8050 - Equipment (under \$5,000)	0	700	0	0	0
Materials, Supplies and Services	587,515	942,400	869,240	879,130	9,890
Total Collection and Credit	1,077,044	1,731,500	1,618,840	1,575,130	(43,710)

Budget Highlights

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CC - Customer Care

5320 - Service Engineering

Section's Activity

The Service Engineering section receives and processes applications for new water service and for relocating or altering water service facilities; renews and approves building permit applications for various types of developments; designs service connections, reviews development and construction plans for water service facilities, maintains maps and records of water distribution and service facilities; performs drafting work for the division; conducts special water service studies; administers water system facilities charges.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	315,555	394,600	388,800	354,500	(34,300)
4120 - Overtime	11,460	20,000	20,000	17,000	(3,000)
4130 - Miscellaneous (Payroll)	0	0	18,000	20,000	2,000
Personnel Services	327,016	414,600	426,800	391,500	(35,300)
4160 - Meals; Mileage & Uniform Allowances	12	0	0	0	0
4250 - Other Contractual Services	487	600	600	600	0
4460 - Other Materials & Supplies	1,285	2,000	2,000	2,000	0
4910 - Miscellaneous Fees & Registration	0	0	0	1,400	1,400
Materials, Supplies and Services	1,784	2,600	2,600	4,000	1,400
Total Service Engineering	328,800	417,200	429,400	395,500	(33,900)

Budget Highlights

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CC - Customer Care

5330 - Customer Service and Records

Section's Activity

Customer Service and Records section services customers' applications requiring reestablishment, discontinuance or transfer of services; maintains customer records for billing purposes; initiates field investigations; reviews governmental agency water service contracts; prepares statistical reports on services and handles inquiries and complaints regarding BWS operations, policies, rates, and high water bills. Assists BWS personnel in other divisions with information, statistics, and status of accounts via computer terminals and services files.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	860,113	1,361,100	1,042,500	1,080,600	38,100
4120 - Overtime	14,395	50,000	52,600	42,500	(10,100)
4130 - Miscellaneous (Payroll)	18,641	30,000	15,000	4,100	(10,900)
Personnel Services	893,149	1,441,100	1,110,100	1,127,200	17,100
4160 - Meals; Mileage & Uniform Allowances	636	7,000	3,000	0	(3,000)
4250 - Other Contractual Services	0	600	600	600	0
4500 - Education and Training	0	12,000	0	0	0
Materials, Supplies and Services	636	19,600	3,600	600	(3,000)
Total Customer Service and Records	893,785	1,460,700	1,113,700	1,127,800	14,100

Budget Highlights

**Board of Water Supply
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CC - Customer Care

5350 - Investigation

Section's Activity

The Investigation section investigates and determines causes of abnormalities, interruptions and reductions in water supply; investigates consumer complaints; locates underground piping systems; locates leaks; inspects water services for conformance to the department's rules and regulations; and obtains field data on water services.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	1,166,391	1,197,000	1,180,500	1,267,100	86,600
4120 - Overtime	174,147	225,000	240,000	240,000	0
4130 - Miscellaneous (Payroll)	0	59,000	70,000	108,000	38,000
Personnel Services	1,340,538	1,481,000	1,490,500	1,615,100	124,600
4160 - Meals; Mileage & Uniform Allowances	12,171	20,000	20,400	20,400	0
4250 - Other Contractual Services	34,387	44,000	35,500	37,700	2,200
4460 - Other Materials & Supplies	8,568	10,000	11,000	11,000	0
4815 - Repair & Maint - Equipment	1,018	10,000	24,400	10,000	(14,400)
4910 - Miscellaneous Fees & Registration	0	5,750	7,000	8,400	1,400
8050 - Equipment (under \$5,000)	0	0	26,300	29,900	3,600
Materials, Supplies and Services	56,144	89,750	124,600	117,400	(7,200)
1270 - General Plant & Equip (over \$5,000)	23,607	10,000	11,000	12,000	1,000
Equipment	23,607	10,000	11,000	12,000	1,000
Total Investigation	1,420,289	1,580,750	1,626,100	1,744,500	118,400

Budget Highlights

**Board of Water Supply
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LAND - Land

Division/Office's Activity

The Land Division is responsible for acquiring water rights, land and land interests by purchase, eminent domain, lease or otherwise; conducts or contracts for title searches; prepares or secures surveys, maps and descriptions for land transactions; makes and/or contracts for land appraisals and analyzes those made by others; contracts and negotiates with private parties and governmental agencies to acquire water rights, land and land interests; prepares, checks and processes deeds, easements, leases, licenses, agreements and other documents through to final execution and recordation; administers all lands under the jurisdiction of the departments including recommendations on land use policies and carrying out the disposition of land and land interests, licenses, leases and easements; keeps abreast of laws and court decisions affecting water rights and land values.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	310,404	309,600	311,600	323,600	12,000
4120 - Overtime	14,041	24,300	27,000	27,000	0
Personnel Services	324,445	333,900	338,600	350,600	12,000
4160 - Meals; Mileage & Uniform Allowances	84	1,000	1,000	1,000	0
4210 - Appraisals; Title Searches & Related Costs	11,503	161,000	110,400	102,100	(8,300)
4250 - Other Contractual Services	14,290	14,100	14,100	14,100	0
4270 - Professional Services	0	500,000	0	0	0
4430 - Miscellaneous Supplies	467	600	600	300	(300)
4460 - Other Materials & Supplies	63	0	0	0	0
4480 - Postage	0	450	200	100	(100)
4815 - Repair & Maint - Equipment	0	240	100	0	(100)
4910 - Miscellaneous Fees & Registration	20,585	20,400	20,700	20,700	0
8050 - Equipment (under \$5,000)	309	1,300	0	0	0
Materials, Supplies and Services	47,300	699,090	147,100	138,300	(8,800)
Total LAND - Land	371,745	1,032,990	485,700	488,900	3,200

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WR - Water Resources

Division/Office's Activity

The Water Resources Division administers and coordinates long range planning and the capital program; conducts continuous hydrologic and geologic monitoring; conducts hydraulic water system analysis for infrastructure improvements and operational efficiency; administers and coordinates the review of development related proposals for the availability of water and water system adequacy; and, administers the water conservation and recycled water programs.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	2,256,917	2,636,200	2,585,400	2,749,200	163,800
4120 - Overtime	110,066	137,422	134,406	123,713	(10,693)
4130 - Miscellaneous (Payroll)	0	4,829	4,728	5,100	372
Personnel Services	2,366,982	2,778,451	2,724,534	2,878,013	153,479
4160 - Meals; Mileage & Uniform Allowances	3,945	4,873	4,526	4,193	(333)
4250 - Other Contractual Services	2,032,117	1,654,000	509,210	524,280	15,070
4255 - Other Services	435,726	1,107,547	1,046,276	1,109,646	63,370
4265 - Printing	245	1,000	1,000	1,000	0
4270 - Professional Services	134,540	1,500,000	2,524,032	3,275,916	751,884
4430 - Miscellaneous Supplies	5,786	5,000	5,000	5,000	0
4460 - Other Materials & Supplies	11,749	59,000	73,900	84,500	10,600
4480 - Postage	15	480	480	480	0
4500 - Education and Training	1,500	12,730	13,080	11,100	(1,980)
4680 - Telephone	0	2,400	12,000	0	(12,000)
4720 - Conference Travel & Expenses	7,765	66,260	37,840	23,900	(13,940)
4808 - Repair, Maintenance and Other Services - Photovoltaic (PV)	415,000	480,000	495,000	505,000	10,000
4810 - Repair & Maint - Recycled Water Plt	989,428	991,959	957,428	1,028,277	70,849
4815 - Repair & Maint - Equipment	1,248	31,790	39,608	50,364	10,756
4910 - Miscellaneous Fees & Registration	10,000	11,200	0	0	0
4920 - Non-Potable Water Trtmnt Plt Costs	4,560,337	4,307,792	4,838,161	5,704,886	866,725
4940 - US Geol Surv (USGS) CoOp Invest	709,063	950,000	885,000	410,000	(475,000)
8050 - Equipment (under \$5,000)	7,276	173,000	198,000	149,000	(49,000)
Materials, Supplies and Services	9,325,742	11,359,031	11,640,541	12,887,542	1,247,001
1270 - General Plant & Equip (over \$5,000)	16,149	21,500	50,000	50,000	0
Equipment	16,149	21,500	50,000	50,000	0
Total WR - Water Resources	11,708,873	14,158,982	14,415,075	15,815,555	1,400,480

Notes

**Board of Water Supply
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WR - Water Resources

5450 - Water Resources Administration

Section's Activity

The Water Resources Administration section coordinates and directs the activities of the Division to meet the departmental requirements for water system and water resources management and development, conservation and projection; advises and keeps management informed on water resources and administers the pertinent rules and regulations.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	386,365	373,900	385,800	410,600	24,800
4120 - Overtime	132	2,000	2,000	2,000	0
Personnel Services	386,497	375,900	387,800	412,600	24,800
4250 - Other Contractual Services	805,247	136,500	0	1,200	1,200
4265 - Printing	245	0	0	0	0
4270 - Professional Services	136,500	0	950,000	1,800,000	850,000
4430 - Miscellaneous Supplies	5,248	5,000	5,000	5,000	0
4460 - Other Materials & Supplies	93	0	0	0	0
4500 - Education and Training	120	0	0	0	0
4720 - Conference Travel & Expenses	5,100	7,610	6,060	1,950	(4,110)
4815 - Repair & Maint - Equipment	678	200	500	500	0
4910 - Miscellaneous Fees & Registration	10,000	10,000	0	0	0
Materials, Supplies and Services	963,231	159,310	961,560	1,808,650	847,090
Total Water Resources Administration	1,349,728	535,210	1,349,360	2,221,250	871,890

Budget Highlights

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WR - Water Resources

5470 - Water System Planning

Section's Activity

The Water Systems Planning section supports the functions of the Water Resources Division and other divisions by analyzing the feasibility of proposed capital projects and water system improvements using computer hydraulic models; verifying source contribution for the annual Consumer Confidence Report; developing specialized computer hydraulic models and analyzing operational scenarios; implementing/ assisting with the investigation and resolution of customer complaints of inadequate water service; coordinating the acquisition and evaluation of private water systems; and gathering real-time operational data for analysis and evaluation.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	373,738	427,500	406,500	477,800	71,300
4120 - Overtime	4,125	8,645	8,645	5,016	(3,629)
Personnel Services	377,863	436,145	415,145	482,816	67,671
4160 - Meals; Mileage & Uniform Allowances	12	880	880	400	(480)
4250 - Other Contractual Services	1,822	102,000	118,710	103,300	(15,410)
4430 - Miscellaneous Supplies	9	0	0	0	0
4460 - Other Materials & Supplies	484	1,500	1,800	1,800	0
4480 - Postage	0	480	480	480	0
4500 - Education and Training	300	8,670	8,500	9,500	1,000
4720 - Conference Travel & Expenses	1,965	13,170	13,620	4,950	(8,670)
4815 - Repair & Maint - Equipment	570	7,590	9,108	9,864	756
8050 - Equipment (under \$5,000)	5,988	0	0	11,000	11,000
Materials, Supplies and Services	11,150	134,290	153,098	141,294	(11,804)
1270 - General Plant & Equip (over \$5,000)	16,149	21,500	0	0	0
Equipment	16,149	21,500	0	0	0
Total Water System Planning	405,162	591,935	568,243	624,110	55,867

Budget Highlights

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WR - Water Resources

5472 - Water Conservation

Section's Activity

The Water Conservation section directs the water conservation activities of the department; conducts the planning, engineering, research, development, and implementation of the department's external (demand-side) and internal (infrastructure) conservation programs, including water facilities energy conservation and efficiency programs and recycled and other non-potable water programs.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	346,976	462,500	439,800	472,900	33,100
4120 - Overtime	78,095	41,205	46,529	19,820	(26,709)
Personnel Services	425,070	503,705	486,329	492,720	6,391
4160 - Meals; Mileage & Uniform Allowances	3,095	1,003	1,000	1,003	3
4250 - Other Contractual Services	3,695	900,000	0	4,320	4,320
4270 - Professional Services	(1,960)	1,500,000	1,574,032	1,475,916	(98,116)
4460 - Other Materials & Supplies	2,557	9,250	11,250	11,250	0
4500 - Education and Training	0	1,600	1,600	0	(1,600)
4720 - Conference Travel & Expenses	250	22,940	11,240	4,000	(7,240)
4808 - Repair, Maintenance and Other Services - Photovoltaic (PV)	415,000	480,000	495,000	505,000	10,000
8050 - Equipment (under \$5,000)	920	75,000	75,000	0	(75,000)
Materials, Supplies and Services	423,557	2,989,793	2,169,122	2,001,489	(167,633)
Total Water Conservation	848,627	3,493,498	2,655,451	2,494,209	(161,242)

Budget Highlights

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WR - Water Resources

5475 - Recycled Water

Section's Activity

The Recycled Water program is responsible for the treatment and distribution of recycled water for beneficial reuse island-wide; the construction, acquisition, and operation of recycled water treatment and distribution infrastructure; long-term service and support agreements with large water users; and to conduct research and provide public outreach to promote acceptance of recycled water.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4250 - Other Contractual Services	225,924	240,000	240,000	252,000	12,000
4810 - Repair & Maint - Recycled Water Plt	989,428	991,959	957,428	1,028,277	70,849
4920 - Non-Potable Water Trtmnt Plt Costs	4,560,337	4,307,792	4,838,161	5,704,886	866,725
Materials, Supplies and Services	5,775,688	5,539,751	6,035,589	6,985,163	949,574
Total Recycled Water	5,775,688	5,539,751	6,035,589	6,985,163	949,574

Budget Highlights

**Board of Water Supply
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Fiscal Year 2024**

WR - Water Resources

5480 - Hydrology-Geology

Section's Activity

The Hydrology-Geology section is responsible for water resource monitoring and evaluation. The section collects and analyzes hydrologic and geologic data to manage resources, to identify new sources, to determine capacity of groundwater resources and aquifer properties. Plans and specifications are prepared for the drilling, testing, and sealing of wells of varying utility. The data collection unit collects rainfall, production and water level data, and conducts geophysical well profiles. These compiled data as well as hydrologic advice provided by staff is given to other sections, units, agencies and the public as requested. The data is used for the preparation of source development and management reports and studies. Watershed related programs and activities are administered through the watershed coordinator.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	377,047	527,400	514,900	480,300	(34,600)
4120 - Overtime	15,735	39,642	39,042	42,524	3,482
4130 - Miscellaneous (Payroll)	0	4,829	4,728	5,100	372
Personnel Services	392,782	571,871	558,670	527,924	(30,746)
4160 - Meals; Mileage & Uniform Allowances	708	1,000	1,000	1,000	0
4250 - Other Contractual Services	995,429	275,000	150,000	162,000	12,000
4255 - Other Services	435,726	1,107,547	1,046,276	1,109,646	63,370
4265 - Printing	0	1,000	1,000	1,000	0
4460 - Other Materials & Supplies	8,593	47,200	59,200	70,400	11,200
4480 - Postage	15	0	0	0	0
4500 - Education and Training	1,080	1,200	1,600	1,600	0
4680 - Telephone	0	2,400	12,000	0	(12,000)
4720 - Conference Travel & Expenses	50	11,800	900	10,400	9,500
4815 - Repair & Maint - Equipment	0	24,000	30,000	40,000	10,000
4910 - Miscellaneous Fees & Registration	0	1,200	0	0	0
4940 - US Geol Surv (USGS) CoOp Invest	709,063	950,000	885,000	410,000	(475,000)
8050 - Equipment (under \$5,000)	369	97,000	123,000	138,000	15,000
Materials, Supplies and Services	2,151,033	2,519,347	2,309,976	1,944,046	(365,930)
1270 - General Plant & Equip (over \$5,000)	0	0	50,000	50,000	0
Equipment	0	0	50,000	50,000	0
Total Hydrology-Geology	2,543,816	3,091,218	2,918,646	2,521,970	(396,676)

Budget Highlights

**Board of Water Supply
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WR - Water Resources

5490 - Project Review

Section's Activity

The Project Review section reviews all requests concerning the availability of water; reviews all water master plans of private and public developments; provides system pressure and flow data; evaluates existing system facilities to ascertain capacities required to support proposed private and public developments; and maintains the files of outstanding water commitments.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	349,568	379,800	388,900	438,700	49,800
4120 - Overtime	609	4,800	4,330	7,753	3,423
Personnel Services	350,177	384,600	393,230	446,453	53,223
4160 - Meals; Mileage & Uniform Allowances	11	300	576	720	144
4430 - Miscellaneous Supplies	436	0	0	0	0
4460 - Other Materials & Supplies	22	400	1,000	400	(600)
4500 - Education and Training	0	630	750	0	(750)
4720 - Conference Travel & Expenses	200	5,120	3,000	1,500	(1,500)
Materials, Supplies and Services	669	6,450	5,326	2,620	(2,706)
Total Project Review	350,846	391,050	398,556	449,073	50,517

Budget Highlights

**Board of Water Supply
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WR - Water Resources

5495 - Long Range Planning

Section's Activity

The Long-Range Planning section develops master and long-range plans for water system improvements to meet departmental goals and objectives; prepares population projections and estimates of future water requirements; and prepares, prioritizes, and justifies related Capital Program projects.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	423,223	465,100	449,500	468,900	19,400
4120 - Overtime	11,370	41,130	33,860	46,600	12,740
Personnel Services	434,593	506,230	483,360	515,500	32,140
4160 - Meals; Mileage & Uniform Allowances	120	1,690	1,070	1,070	0
4250 - Other Contractual Services	0	500	500	1,460	960
4430 - Miscellaneous Supplies	92	0	0	0	0
4460 - Other Materials & Supplies	0	650	650	650	0
4500 - Education and Training	0	630	630	0	(630)
4720 - Conference Travel & Expenses	200	5,620	3,020	1,100	(1,920)
8050 - Equipment (under \$5,000)	0	1,000	0	0	0
Materials, Supplies and Services	412	10,090	5,870	4,280	(1,590)
Total Long Range Planning	435,005	516,320	489,230	519,780	30,550

Budget Highlights

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FO - Field Operations

Division/Office's Activity

The Field Operations Division is responsible for the maintenance of all waterworks facilities including all pipelines, valves, fire hydrants, meters, Automated Meter Reading (AMR) components, and corporation yards; maintaining all grounds; installing, maintaining, and repairing service connections; maintaining office buildings; and physical control of the storerooms and storage yards.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	11,308,042	15,438,800	14,765,900	16,040,300	1,274,400
4120 - Overtime	2,027,348	2,445,000	2,425,000	2,245,500	(179,500)
4130 - Miscellaneous (Payroll)	387,650	1,037,400	984,600	872,800	(111,800)
Personnel Services	13,723,040	18,921,200	18,175,500	19,158,600	983,100
1110 - Materials & Supplies (Storeroom)	3,086,321	2,200,000	2,420,000	3,146,000	726,000
1120 - Meters (Storeroom)	841,392	2,375,000	2,375,000	2,275,000	(100,000)
1125 - AMR Materials & Supplies (Storeroom)	67,090	300,000	250,000	150,000	(100,000)
4160 - Meals; Mileage & Uniform Allowances	101,076	136,500	135,500	131,500	(4,000)
4230 - Emergency & Contracted Road Repairs	6,461,352	8,000,000	8,000,000	7,200,000	(800,000)
4250 - Other Contractual Services	961,341	1,612,000	2,758,000	2,453,000	(305,000)
4270 - Professional Services	0	75,000	325,000	75,000	(250,000)
4280 - Refuse Collection & Disposal	881,015	1,200,000	1,200,000	1,200,000	0
4420 - Hauling Charges	0	50,000	50,000	50,000	0
4430 - Miscellaneous Supplies	6,945	10,000	10,000	10,000	0
4460 - Other Materials & Supplies	359,518	525,000	526,000	526,000	0
4470 - Parts and Accessories	3,318	0	0	0	0
4500 - Education and Training	6,501	45,000	45,000	45,000	0
4720 - Conference Travel & Expenses	0	40,000	40,000	6,000	(34,000)
4805 - Repair & Maint - Structures	21,194	60,000	60,000	60,000	0
4815 - Repair & Maint - Equipment	9,563	43,000	38,000	38,000	0
4910 - Miscellaneous Fees & Registration	55	0	0	0	0
4915 - Miscellaneous Financial Expenses	4,931	0	0	0	0
4923 - Store Materials & Expense	344,354	750,000	800,000	800,000	0
8050 - Equipment (under \$5,000)	103,210	140,825	133,990	199,235	65,245
Materials, Supplies and Services	13,259,175	17,562,325	19,166,490	18,364,735	(801,755)
1270 - General Plant & Equip (over \$5,000)	26,453	28,000	39,500	52,900	13,400
Equipment	26,453	28,000	39,500	52,900	13,400
Total FO - Field Operations	27,008,668	36,511,525	37,381,490	37,576,235	194,745

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FO - Field Operations

5500 - Field Operations Administration

Section's Activity

The Field Operations Administration section directs the affairs of the Field Operations Division.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	307,668	467,300	383,100	427,200	44,100
4120 - Overtime	5,602	10,000	10,000	10,000	0
4130 - Miscellaneous (Payroll)	0	10,000	10,000	10,000	0
Personnel Services	313,270	487,300	403,100	447,200	44,100
4160 - Meals; Mileage & Uniform Allowances	216	5,000	5,000	1,000	(4,000)
4230 - Emergency & Contracted Road Repairs	6,275,309	8,000,000	8,000,000	7,200,000	(800,000)
4250 - Other Contractual Services	232,035	375,000	325,000	625,000	300,000
4270 - Professional Services	0	75,000	325,000	75,000	(250,000)
4280 - Refuse Collection & Disposal	881,015	1,200,000	1,200,000	1,200,000	0
4430 - Miscellaneous Supplies	1,203	0	0	0	0
4460 - Other Materials & Supplies	5,590	0	0	0	0
4500 - Education and Training	6,401	45,000	45,000	45,000	0
4720 - Conference Travel & Expenses	0	40,000	40,000	6,000	(34,000)
4915 - Miscellaneous Financial Expenses	4,931	0	0	0	0
8050 - Equipment (under \$5,000)	1	0	13,750	0	(13,750)
Materials, Supplies and Services	7,406,701	9,740,000	9,953,750	9,152,000	(801,750)
Total Field Operations Administration	7,719,971	10,227,300	10,356,850	9,599,200	(757,650)

Budget Highlights

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FO - Field Operations

5525 - Engineering & Technical Support Section

Section's Activity

The Engineering and Technical Support section is responsible for the leak detection program; prepares plans and specifications, implements, and inspects the Indefinite Delivery Indefinite Quantity repaving work by contractors; prepares plans and specifications for capital projects under Field Operations' jurisdiction; review plans, specifications, and reports for BWS projects and projects that will be dedicated to BWS; evaluates new materials and equipment for maintenance requirements; and provide engineering support for field crews' work.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	202,265	386,800	368,600	500,300	131,700
4120 - Overtime	2,591	10,000	10,000	15,000	5,000
4130 - Miscellaneous (Payroll)	6,313	20,000	10,000	10,000	0
Personnel Services	211,169	416,800	388,600	525,300	136,700
4160 - Meals; Mileage & Uniform Allowances	779	3,500	3,500	3,500	0
4250 - Other Contractual Services	0	0	200,000	275,000	75,000
4460 - Other Materials & Supplies	30	10,000	10,000	10,000	0
4815 - Repair & Maint - Equipment	0	10,000	5,000	5,000	0
8050 - Equipment (under \$5,000)	0	8,250	2,500	13,100	10,600
Materials, Supplies and Services	809	31,750	221,000	306,600	85,600
1270 - General Plant & Equip (over \$5,000)	13,207	20,000	10,000	39,200	29,200
Equipment	13,207	20,000	10,000	39,200	29,200
Total Technical & Operational Support Branch	225,185	468,550	619,600	871,100	251,500

Budget Highlights

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FO - Field Operations

5552 - Meter Maintenance Section

Section's Activity

The Meter Maintenance section operates and maintains the meter shop for testing and repairing meters; conducts annual meter and Automated Meter Reading (AMR) maintenance program; inspects and performs large meter performance tests; repairs or replaces large meters; reviews and evaluates meter technical data; performs meter mastering to optimize meter type, size, and to diagnose problems; and installs and removes temporary fire hydrant meter assemblies.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	789,182	1,310,000	1,054,800	1,297,900	243,100
4120 - Overtime	15,619	30,000	20,000	20,000	0
4130 - Miscellaneous (Payroll)	0	40,000	40,000	40,000	0
Personnel Services	804,801	1,380,000	1,114,800	1,357,900	243,100
1120 - Meters (Storeroom)	841,392	2,375,000	2,375,000	2,275,000	(100,000)
1125 - AMR Materials & Supplies (Storeroom)	67,090	300,000	250,000	150,000	(100,000)
4160 - Meals; Mileage & Uniform Allowances	1,310	3,000	3,000	3,000	0
4250 - Other Contractual Services	1,699	25,000	0	0	0
4460 - Other Materials & Supplies	14,459	30,000	30,000	30,000	0
8050 - Equipment (under \$5,000)	44,311	29,975	0	58,200	58,200
Materials, Supplies and Services	970,262	2,762,975	2,658,000	2,516,200	(141,800)
Total Technical & Operational Support Branch	1,775,063	4,142,975	3,772,800	3,874,100	101,300

Budget Highlights

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FO - Field Operations

5585 - Storeroom Section

Section's Activity

The Storeroom section is responsible for physical control of the storerooms and storage yards; coordinates and processes the annual materials contract; and stores and disposes of scrap and surplus materials.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	206,590	334,700	277,000	258,800	(18,200)
4120 - Overtime	5,767	5,000	5,000	5,000	0
4130 - Miscellaneous (Payroll)	13,712	10,000	10,000	10,000	0
Personnel Services	226,069	349,700	292,000	273,800	(18,200)
1110 - Materials & Supplies (Storeroom)	3,086,321	2,200,000	2,420,000	3,146,000	726,000
4160 - Meals; Mileage & Uniform Allowances	2,181	4,000	4,000	4,000	0
4250 - Other Contractual Services	1,584	0	75,000	75,000	0
4420 - Hauling Charges	0	50,000	50,000	50,000	0
4460 - Other Materials & Supplies	116,218	250,000	250,000	250,000	0
4923 - Store Materials & Expense	344,354	750,000	800,000	800,000	0
8050 - Equipment (under \$5,000)	0	0	0	5,000	5,000
Materials, Supplies and Services	3,550,658	3,254,000	3,599,000	4,330,000	731,000
Total Technical & Operational Support Branch	3,776,727	3,603,700	3,891,000	4,603,800	712,800

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5519 - Maintenance Support Branch

Section's Activity

The Maintenance Support branch directs and coordinates the activities pertaining to the landscaping and maintenance of the Beretania Complex buildings and corporation yards.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	197,858	235,500	259,000	317,400	58,400
4120 - Overtime	36,032	40,000	40,000	40,000	0
4130 - Miscellaneous (Payroll)	2,304	64,800	32,400	3,400	(29,000)
Personnel Services	236,194	340,300	331,400	360,800	29,400
4160 - Meals; Mileage & Uniform Allowances	1,086	0	1,000	1,000	0
Materials, Supplies and Services	1,086	0	1,000	1,000	0
Total Maintenance Support Branch	237,280	340,300	332,400	361,800	29,400

Budget Highlights

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FO - Field Operations

5522 - Grounds Section

Section's Activity

The Grounds section is responsible for the maintenance of grounds and landscaped areas at Beretania Complex, Halawa Garden, corporation yards, pump stations, reservoirs, and well sites; maintains BWS access roads from vegetation overgrowth; and prepares, implements, and oversees contracts for private contractors to perform major tree trimming and maintenance work at dam sites.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	1,607,070	1,998,700	1,942,200	2,115,900	173,700
4120 - Overtime	4,312	50,000	50,000	20,000	(30,000)
4130 - Miscellaneous (Payroll)	84,937	70,000	70,000	70,000	0
Personnel Services	1,696,319	2,118,700	2,062,200	2,205,900	143,700
4160 - Meals; Mileage & Uniform Allowances	2,012	6,000	6,000	6,000	0
4250 - Other Contractual Services	660,618	1,000,000	1,925,000	1,295,000	(630,000)
4460 - Other Materials & Supplies	50,338	40,000	40,000	40,000	0
4815 - Repair & Maint - Equipment	3,016	5,000	5,000	5,000	0
8050 - Equipment (under \$5,000)	6,655	11,100	19,150	16,625	(2,525)
Materials, Supplies and Services	722,640	1,062,100	1,995,150	1,362,625	(632,525)
Total Maintenance Support Branch	2,418,959	3,180,800	4,057,350	3,568,525	(488,825)

Budget Highlights

4250 - Other Contractual Services: Tree trimming, maintenance at Nuuanu Reservoir dams, Mauna Olu Reservoir dam, Makaha fire breaks.

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FO - Field Operations

5553 - Building Custodial Section

Section's Activity

The Building Custodial section maintains Beretania Complex buildings, Kalihi Office buildings, and Kalihi Museum.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	335,446	454,800	454,800	495,200	40,400
4120 - Overtime	1,862	30,000	20,000	10,000	(10,000)
4130 - Miscellaneous (Payroll)	15,523	10,000	10,000	10,000	0
Personnel Services	352,831	494,800	484,800	515,200	30,400
4160 - Meals; Mileage & Uniform Allowances	548	5,000	5,000	5,000	0
4250 - Other Contractual Services	4,192	13,000	10,000	10,000	0
4460 - Other Materials & Supplies	9,699	12,000	12,000	12,000	0
4805 - Repair & Maint - Structures	0	10,000	10,000	10,000	0
8050 - Equipment (under \$5,000)	4,955	5,000	0	0	0
Materials, Supplies and Services	19,394	45,000	37,000	37,000	0
Total Maintenance Support Branch	372,225	539,800	521,800	552,200	30,400

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5535 - Metropolitan Field Services District

Section's Activity

The Metropolitan Field Services District administers the affairs of the section. It conducts all emergency repair operations and maintenance work involving the water system and appurtenances within the Metropolitan District, including all mains, valves, service connections, fire hydrants, reservoir disinfection work, and appurtenant concrete work; repair reservoirs and buildings; construct pipelines and miscellaneous projects; conducts Sanitary Survey inspection work; and provides clerical support for Engineering & Technical Support Section (5525), and the Maintenance Support Branch (5519).

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	3,509,803	4,812,400	4,699,000	4,740,400	41,400
4120 - Overtime	908,060	1,000,000	1,000,000	910,000	(90,000)
4130 - Miscellaneous (Payroll)	161,813	368,000	365,600	288,000	(77,600)
Personnel Services	4,579,676	6,180,400	6,064,600	5,938,400	(126,200)
4160 - Meals; Mileage & Uniform Allowances	45,923	50,000	50,000	50,000	0
4230 - Emergency & Contracted Road Repairs	186,043	0	0	0	0
4250 - Other Contractual Services	58,550	177,000	202,000	152,000	(50,000)
4430 - Miscellaneous Supplies	2,329	6,000	6,000	6,000	0
4460 - Other Materials & Supplies	89,080	90,000	90,000	90,000	0
4805 - Repair & Maint - Structures	21,194	50,000	50,000	50,000	0
4815 - Repair & Maint - Equipment	2,731	15,000	15,000	15,000	0
4910 - Miscellaneous Fees & Registration	55	0	0	0	0
8050 - Equipment (under \$5,000)	12,800	24,950	43,300	22,760	(20,540)
Materials, Supplies and Services	418,705	412,950	456,300	385,760	(70,540)
1270 - General Plant & Equip (over \$5,000)	13,246	0	0	0	0
Equipment	13,246	0	0	0	0
Total Metropolitan Field Services District	5,011,627	6,593,350	6,520,900	6,324,160	(196,740)

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5540 - Suburban Field Services District

Section's Activity

The Suburban Field Services section directs and coordinates the activities pertaining to maintenance of pipelines and appurtenances, building and corporation yards, provides clerical support to sections of the branch (5541 - Manana, 5542 - Wahiawa, 5543 - Waianae, and 5560 Windward).

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	85,166	102,700	105,400	174,800	69,400
4120 - Overtime	5,753	0	0	5,000	5,000
4130 - Miscellaneous (Payroll)	0	0	2,400	2,400	0
Personnel Services	90,919	102,700	107,800	182,200	74,400
4160 - Meals; Mileage & Uniform Allowances	162	0	0	0	0
4250 - Other Contractual Services	2,558	1,000	0	0	0
4430 - Miscellaneous Supplies	3,403	4,000	4,000	4,000	0
8050 - Equipment (under \$5,000)	50	0	0	0	0
Materials, Supplies and Services	6,173	5,000	4,000	4,000	0
Total Administration Section	97,092	107,700	111,800	186,200	74,400

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5541 - Manana Section

Section's Activity

The Manana section conducts all emergency repair operations and maintenance work involving the water system and appurtenances within the Manana District, including all mains, valves, service connections, fire hydrants, reservoir disinfection work, and appurtenant concrete work; repair reservoirs and buildings; construct pipelines and miscellaneous projects; and conducts Sanitary Survey inspection work.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	1,351,668	1,972,700	1,982,400	2,295,600	313,200
4120 - Overtime	436,615	500,000	500,000	450,000	(50,000)
4130 - Miscellaneous (Payroll)	35,556	159,400	164,200	189,000	24,800
Personnel Services	1,823,839	2,632,100	2,646,600	2,934,600	288,000
4160 - Meals; Mileage & Uniform Allowances	19,705	20,000	20,000	20,000	0
4250 - Other Contractual Services	105	15,000	15,000	15,000	0
4460 - Other Materials & Supplies	35,701	60,000	60,000	60,000	0
4470 - Parts and Accessories	3,318	0	0	0	0
4815 - Repair & Maint - Equipment	2,229	5,000	5,000	5,000	0
8050 - Equipment (under \$5,000)	14,488	18,950	20,100	20,000	(100)
Materials, Supplies and Services	75,545	118,950	120,100	120,000	(100)
1270 - General Plant & Equip (over \$5,000)	0	0	9,000	7,000	(2,000)
Equipment	0	0	9,000	7,000	(2,000)
Total Administration Section	1,899,384	2,751,050	2,775,700	3,061,600	285,900

Budget Highlights

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FO - Field Operations

5542 - Wahiawa Section

Section's Activity

The Wahiawa section conducts all emergency repair operations and maintenance work involving the water distribution system and appurtenances within the Wahiawa District, including all mains, valves, service connections, fire hydrants, reservoir disinfection work, and appurtenant concrete work; repair reservoirs and buildings; construct pipelines and miscellaneous projects; and conducts Sanitary Survey inspection work.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	358,888	760,500	662,500	706,300	43,800
4120 - Overtime	105,277	160,000	160,000	144,000	(16,000)
4130 - Miscellaneous (Payroll)	8,880	79,000	81,400	41,400	(40,000)
Personnel Services	473,045	999,500	903,900	891,700	(12,200)
4160 - Meals; Mileage & Uniform Allowances	4,769	11,000	11,000	11,000	0
4460 - Other Materials & Supplies	15,977	12,000	12,000	12,000	0
4815 - Repair & Maint - Equipment	1,296	3,000	3,000	3,000	0
8050 - Equipment (under \$5,000)	7,354	8,600	5,490	7,800	2,310
Materials, Supplies and Services	29,396	34,600	31,490	33,800	2,310
1270 - General Plant & Equip (over \$5,000)	0	8,000	11,500	0	(11,500)
Equipment	0	8,000	11,500	0	(11,500)
Total Administration Section	502,441	1,042,100	946,890	925,500	(21,390)

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5543 - Waianae Section

Section's Activity

The Waianae section conducts all emergency repair operations and maintenance work involving the water distribution system and appurtenances within the Waianae District, including all mains, valves, service connections, fire hydrants, reservoir disinfection work, and appurtenant concrete work; repair reservoirs and buildings; construct pipelines and miscellaneous projects; and conducts Sanitary Survey inspection work.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	844,989	836,000	869,400	923,500	54,100
4120 - Overtime	208,828	360,000	360,000	324,000	(36,000)
4130 - Miscellaneous (Payroll)	23,023	73,800	76,200	81,200	5,000
Personnel Services	1,076,840	1,269,800	1,305,600	1,328,700	23,100
4160 - Meals; Mileage & Uniform Allowances	9,639	17,000	15,000	15,000	0
4460 - Other Materials & Supplies	4,219	7,000	7,000	7,000	0
4815 - Repair & Maint - Equipment	290	2,500	2,500	2,500	0
8050 - Equipment (under \$5,000)	5,270	0	9,300	11,000	1,700
Materials, Supplies and Services	19,417	26,500	33,800	35,500	1,700
1270 - General Plant & Equip (over \$5,000)	0	0	9,000	6,700	(2,300)
Equipment	0	0	9,000	6,700	(2,300)
Total Administration Section	1,096,258	1,296,300	1,348,400	1,370,900	22,500

Budget Highlights

**Board of Water Supply
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FO - Field Operations

5560 - Windward Section

Section's Activity

The Windward section conducts all emergency repair operations and maintenance work involving the water distribution system and appurtenances within the Windward District, including all mains, valves, service connections, fire hydrants, reservoir disinfection work, and appurtenant concrete work; repair reservoirs and buildings; construct pipelines and miscellaneous projects; and conducts Sanitary Survey inspection work.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	1,511,448	1,766,700	1,707,700	1,787,000	79,300
4120 - Overtime	291,032	250,000	250,000	292,500	42,500
4130 - Miscellaneous (Payroll)	35,588	132,400	112,400	117,400	5,000
Personnel Services	1,838,068	2,149,100	2,070,100	2,196,900	126,800
4160 - Meals; Mileage & Uniform Allowances	12,746	12,000	12,000	12,000	0
4250 - Other Contractual Services	0	6,000	6,000	6,000	0
4430 - Miscellaneous Supplies	9	0	0	0	0
4460 - Other Materials & Supplies	18,207	14,000	15,000	15,000	0
4500 - Education and Training	100	0	0	0	0
4815 - Repair & Maint - Equipment	0	2,500	2,500	2,500	0
8050 - Equipment (under \$5,000)	7,326	34,000	20,400	44,750	24,350
Materials, Supplies and Services	38,388	68,500	55,900	80,250	24,350
Total Administration Section	1,876,456	2,217,600	2,126,000	2,277,150	151,150

Budget Highlights

**Board of Water Supply
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CP - Capital Projects

Division/Office's Activity

The Capital Projects Division develops and directs engineering policy and programs to carry out the department's mission, vision, goals, and objectives; formulates and implements the annual Capital Improvement Program budget; develops, implements, and maintains programs to address water infrastructure needs; ensures all improvements to the municipal water system are designed and constructed in compliance with the department's standards and policies; coordinates construction schedules and requirements between operational units and external entities; and provides advisory services to other units and staff services for executive decision making.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	4,571,919	5,335,600	5,642,500	5,808,400	165,900
4120 - Overtime	466,202	444,000	444,000	440,000	(4,000)
4130 - Miscellaneous (Payroll)	25,174	273,300	271,300	273,300	2,000
Personnel Services	5,063,296	6,052,900	6,357,800	6,521,700	163,900
4160 - Meals; Mileage & Uniform Allowances	14,678	16,900	16,900	7,100	(9,800)
4240 - Manhole Raising	55	0	0	0	0
4250 - Other Contractual Services	383,247	439,200	472,200	471,600	(600)
4260 - Advertising & Publication of Notices	586	3,000	3,000	3,000	0
4270 - Professional Services	1,497,000	1,500,000	2,000,000	2,000,000	0
4430 - Miscellaneous Supplies	4,385	4,000	4,000	4,000	0
4460 - Other Materials & Supplies	8,933	35,200	32,000	32,750	750
4500 - Education and Training	4,912	53,300	47,700	33,173	(14,527)
4720 - Conference Travel & Expenses	25	0	5,600	12,200	6,600
4815 - Repair & Maint - Equipment	3,637	5,300	5,000	4,000	(1,000)
4910 - Miscellaneous Fees & Registration	115	400	2,600	440	(2,160)
8050 - Equipment (under \$5,000)	739	2,000	0	3,800	3,800
Materials, Supplies and Services	1,918,312	2,059,300	2,589,000	2,572,063	(16,937)
1270 - General Plant & Equip (over \$5,000)	0	250,000	250,000	150,000	(100,000)
Equipment	0	250,000	250,000	150,000	(100,000)
Total CP - Capital Projects	6,981,608	8,362,200	9,196,800	9,243,763	46,963

Notes

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CP - Capital Projects

5565 - Capital Projects Administration

Section's Activity

Capital Projects Administration develops and directs programs involving the planning, design, inspection, and execution of all projects that are incorporated into the public water system.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	503,278	547,700	568,100	427,300	(140,800)
4120 - Overtime	47,046	40,000	40,000	40,000	0
4130 - Miscellaneous (Payroll)	0	300	300	300	0
Personnel Services	550,324	588,000	608,400	467,600	(140,800)
4160 - Meals; Mileage & Uniform Allowances	1,380	500	500	500	0
4240 - Manhole Raising	55	0	0	0	0
4250 - Other Contractual Services	69,967	134,200	164,200	164,200	0
4260 - Advertising & Publication of Notices	586	3,000	3,000	3,000	0
4270 - Professional Services	1,497,000	1,500,000	2,000,000	2,000,000	0
4430 - Miscellaneous Supplies	2,360	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	1,527	23,500	23,500	23,500	0
4500 - Education and Training	0	20,000	17,000	10,200	(6,800)
4720 - Conference Travel & Expenses	25	0	1,600	1,600	0
4815 - Repair & Maint - Equipment	129	1,000	1,000	0	(1,000)
4910 - Miscellaneous Fees & Registration	115	200	200	200	0
Materials, Supplies and Services	1,573,144	1,684,900	2,213,500	2,205,700	(7,800)
1270 - General Plant & Equip (over \$5,000)	0	250,000	250,000	150,000	(100,000)
Equipment	0	250,000	250,000	150,000	(100,000)
Total Administration	2,123,468	2,522,900	3,071,900	2,823,300	(248,600)

Budget Highlights

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CP - Capital Projects

5570 - Design & Plans Review

Section's Activity

The Design and Plans Review branch formulates design and construction projects to address the needs of the department; prepares and reviews plans, specifications, and cost estimates; coordinates and secures all necessary project approvals, permits, and clearances for modifications or extensions to the municipal water system; and reviews all public and private construction plans for conformance with the department's standards and policies and approved water master plans.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	884,312	1,065,200	1,103,400	1,085,200	(18,200)
4120 - Overtime	37,921	40,000	40,000	40,000	0
4130 - Miscellaneous (Payroll)	0	0	8,000	8,000	0
Personnel Services	922,233	1,105,200	1,151,400	1,133,200	(18,200)
4160 - Meals; Mileage & Uniform Allowances	168	200	200	200	0
4430 - Miscellaneous Supplies	793	1,000	1,000	1,000	0
4460 - Other Materials & Supplies	115	0	0	0	0
4500 - Education and Training	1,218	4,000	4,000	3,800	(200)
4720 - Conference Travel & Expenses	0	0	4,000	4,000	0
Materials, Supplies and Services	2,294	5,200	9,200	9,000	(200)
Total Design & Plans Review	924,527	1,110,400	1,160,600	1,142,200	(18,400)

Budget Highlights

**Board of Water Supply
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CP - Capital Projects

5575 - Construction

Section's Activity

The Construction branch administers the department's construction contracts; plans and coordinates construction schedules; oversees all construction activities associated with projects that impact the BWS facilities and assets; and ensures all construction plans and specifications, whether by the BWS or by other public and private interests, is completed and approved with accepted engineering practices in accordance with the department's standards and policies.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	1,974,803	2,383,000	2,559,700	2,604,800	45,100
4120 - Overtime	357,395	350,000	350,000	350,000	0
4130 - Miscellaneous (Payroll)	23,287	250,000	250,000	250,000	0
Personnel Services	2,355,485	2,983,000	3,159,700	3,204,800	45,100
4160 - Meals; Mileage & Uniform Allowances	12,914	16,000	16,000	6,200	(9,800)
4250 - Other Contractual Services	29,780	30,000	30,000	30,000	0
4430 - Miscellaneous Supplies	244	500	500	500	0
4460 - Other Materials & Supplies	3,729	4,000	3,000	3,000	0
4500 - Education and Training	160	22,000	18,900	11,813	(7,087)
4720 - Conference Travel & Expenses	0	0	0	2,600	2,600
4910 - Miscellaneous Fees & Registration	0	200	200	240	40
8050 - Equipment (under \$5,000)	0	1,500	0	3,800	3,800
Materials, Supplies and Services	46,826	74,200	68,600	58,153	(10,447)
Total Construction	2,402,311	3,057,200	3,228,300	3,262,953	34,653

Budget Highlights

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CP - Capital Projects

5580 - Support

Section's Activity

The Support branch formulates the department's annual Capital Improvement Program budget; prepares and administers agreements with public agencies and private developers; prepares and reviews plans, specifications, cost estimates, and other necessary documents; coordinates and secures all necessary project approvals, permits, and clearances for the department's facility repair and replacement construction projects; develops and implements programs for facility renovations, asset replacement, and fire protection improvement; provides technical research, assistance, expertise, and advice throughout the department; develops and maintains the department's water system standards; and conducts research and product trials to evaluate new materials and equipment.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	564,420	684,300	718,600	978,000	259,400
4120 - Overtime	22,589	4,000	4,000	4,000	0
4130 - Miscellaneous (Payroll)	0	4,000	9,000	9,000	0
Personnel Services	587,008	692,300	731,600	991,000	259,400
4160 - Meals; Mileage & Uniform Allowances	192	100	100	100	0
4250 - Other Contractual Services	0	0	3,000	2,400	(600)
4430 - Miscellaneous Supplies	527	0	0	0	0
4460 - Other Materials & Supplies	966	3,000	3,000	2,000	(1,000)
4500 - Education and Training	1,767	5,700	6,200	5,890	(310)
4720 - Conference Travel & Expenses	0	0	0	1,600	1,600
4815 - Repair & Maint - Equipment	3,508	4,300	4,000	4,000	0
8050 - Equipment (under \$5,000)	401	500	0	0	0
Materials, Supplies and Services	7,361	13,600	16,300	15,990	(310)
Total Support	594,369	705,900	747,900	1,006,990	259,090

Budget Highlights

**Board of Water Supply
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CP - Capital Projects

5582 - Mechanical and Electrical

Section's Activity

The Mechanical and Electrical branch oversees the design and installation of mechanical and electrical equipment and systems throughout the municipal water system; prepares plans, specifications, and cost estimates; coordinates and secures all necessary project approvals, permits, and clearances for the construction of electrical and mechanical system installations and pump and motor repairs, renewals, and replacement work in accordance with the department's requirements; provides technical assistance and conducts field inspections, troubleshooting, pilot testing, and final acceptance inspections of mechanical and electrical components; monitors, evaluates, incorporates, and optimizes the BWS equipment standards; and provides technical assistance, expertise, and advice on daily operation of pump and power facilities, equipment renewal and upgrade programs, continuity of service, and maintenance.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	645,106	655,400	692,700	713,100	20,400
4120 - Overtime	1,251	10,000	10,000	6,000	(4,000)
4130 - Miscellaneous (Payroll)	1,887	19,000	4,000	6,000	2,000
Personnel Services	648,244	684,400	706,700	725,100	18,400
4160 - Meals; Mileage & Uniform Allowances	24	100	100	100	0
4250 - Other Contractual Services	283,501	275,000	275,000	275,000	0
4430 - Miscellaneous Supplies	461	0	0	0	0
4460 - Other Materials & Supplies	2,596	4,700	2,500	4,250	1,750
4500 - Education and Training	1,767	1,600	1,600	1,470	(130)
4720 - Conference Travel & Expenses	0	0	0	2,400	2,400
8050 - Equipment (under \$5,000)	338	0	0	0	0
Materials, Supplies and Services	288,687	281,400	279,200	283,220	4,020
Total Mechanical and Electrical	936,931	965,800	985,900	1,008,320	22,420

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

Division/Office's Activity

The Water System Operations Division is responsible for the operations and maintenance of pumping and water treatment plant equipment, plant facilities, and communications and electronic control systems. It maintains a 24-hour watch over the department's island-wide water systems and departmental electrical and emergency power supply systems. The unit also purchases, maintains, and repairs the department's vehicles and construction equipment.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	4,699,715	6,196,400	6,448,800	6,784,300	335,500
4120 - Overtime	931,782	843,000	826,000	835,500	9,500
4130 - Miscellaneous (Payroll)	8,610	55,800	72,300	91,300	19,000
Personnel Services	5,640,107	7,095,200	7,347,100	7,711,100	364,000
4160 - Meals; Mileage & Uniform Allowances	47,278	40,700	40,700	40,100	(600)
4250 - Other Contractual Services	819,904	707,800	1,077,900	1,045,500	(32,400)
4251 - Software Licenses and Maintenance	13,231	33,100	30,100	33,500	3,400
4267 - Printed forms	0	300	300	300	0
4270 - Professional Services	741,693	1,000,000	250,000	225,000	(25,000)
4410 - Gasoline	753,934	803,200	883,520	1,032,020	148,500
4430 - Miscellaneous Supplies	4,268	7,600	8,000	8,000	0
4440 - Motor Vehicle Parts & Accessories	321,308	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	3,046,686	2,816,800	3,250,550	3,332,500	81,950
4470 - Parts and Accessories	968,551	600,000	627,000	599,500	(27,500)
4500 - Education and Training	13,463	45,250	44,175	41,100	(3,075)
4670 - Telemetry	196,862	200,000	220,000	200,000	(20,000)
4720 - Conference Travel & Expenses	0	12,200	4,400	6,200	1,800
4805 - Repair & Maint - Structures	65,961	54,000	54,000	54,000	0
4815 - Repair & Maint - Equipment	1,090,112	1,022,200	1,256,400	1,652,900	396,500
4910 - Miscellaneous Fees & Registration	1,998	5,500	7,700	4,850	(2,850)
4915 - Miscellaneous Financial Expenses	400	0	0	0	0
8050 - Equipment (under \$5,000)	372,056	382,050	406,830	325,350	(81,480)
Materials, Supplies and Services	8,457,704	8,182,700	8,613,575	9,052,820	439,245
1270 - General Plant & Equip (over \$5,000)	3,210,477	3,897,700	3,857,600	1,835,700	(2,021,900)
Equipment	3,210,477	3,897,700	3,857,600	1,835,700	(2,021,900)
Total WSO - Water System Operations	17,308,288	19,175,600	19,818,275	18,599,620	(1,218,655)

Notes

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WSO - Water System Operations

5600 - Operations Administration

Section's Activity

Operations Administration directs the affairs of the Water System Operations Division and provides engineering and clerical support to sections within the unit.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	362,317	496,100	473,800	495,300	21,500
4120 - Overtime	74,381	40,000	20,000	50,000	30,000
4130 - Miscellaneous (Payroll)	0	600	600	20,600	20,000
Personnel Services	436,698	536,700	494,400	565,900	71,500
4160 - Meals; Mileage & Uniform Allowances	1,252	900	900	1,100	200
4250 - Other Contractual Services	14,235	32,000	312,000	313,000	1,000
4270 - Professional Services	741,693	1,000,000	250,000	225,000	(25,000)
4430 - Miscellaneous Supplies	2,809	6,000	5,000	4,000	(1,000)
4460 - Other Materials & Supplies	3,155	0	0	0	0
4500 - Education and Training	0	1,700	825	1,100	275
4720 - Conference Travel & Expenses	0	2,500	400	600	200
4805 - Repair & Maint - Structures	2,187	0	0	0	0
4815 - Repair & Maint - Equipment	35,524	0	0	0	0
4910 - Miscellaneous Fees & Registration	630	1,000	1,000	1,050	50
8050 - Equipment (under \$5,000)	66	0	0	0	0
Materials, Supplies and Services	801,551	1,044,100	570,125	545,850	(24,275)
Total Operations Administration	1,238,249	1,580,800	1,064,525	1,111,750	47,225

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

5610 - Plant Operations

Section's Activity

The Plant Operations section operates, maintains, repairs and installs equipment of the pumping systems consisting of electrical pumping plants, booster pumping stations, water treatment plants, hydraulic turbine pumping units, water treatment stations, reservoirs, reservoir altitude valves, in-line check and hydraulically-operated butterfly valves and pressure-regulating valves, aerators, meters and gauges, repair shops, buildings and structures, air conditioners, exhaust blowers and fans, auxiliary pumping and water treatment equipment; regulates the water supply within the water distribution systems through the use of a variety of mechanically and electrically-operated supervisory controls; operates the department's after-hour control center; maintains a 24-hour watch over department's island-wide water system.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	105,303	193,400	213,900	235,400	21,500
4120 - Overtime	4,253	35,000	50,000	65,000	15,000
4130 - Miscellaneous (Payroll)	0	1,200	1,200	1,200	0
Personnel Services	109,555	229,600	265,100	301,600	36,500
4160 - Meals; Mileage & Uniform Allowances	1,059	1,800	1,000	500	(500)
4250 - Other Contractual Services	43,676	0	4,000	4,500	500
4251 - Software Licenses and Maintenance	11,731	28,000	25,000	28,000	3,000
4430 - Miscellaneous Supplies	0	1,000	2,000	2,000	0
4460 - Other Materials & Supplies	2,692,194	2,585,400	3,050,000	3,130,000	80,000
4470 - Parts and Accessories	27,889	0	15,000	12,000	(3,000)
4500 - Education and Training	10,830	3,050	4,000	2,500	(1,500)
4720 - Conference Travel & Expenses	0	900	400	600	200
4805 - Repair & Maint - Structures	63,774	50,000	50,000	50,000	0
4815 - Repair & Maint - Equipment	960,293	783,200	866,000	1,243,500	377,500
4910 - Miscellaneous Fees & Registration	650	1,600	3,800	3,800	0
8050 - Equipment (under \$5,000)	1,571	8,000	4,000	3,300	(700)
Materials, Supplies and Services	3,813,667	3,462,950	4,025,200	4,480,700	455,500
Total Plant Operations	3,923,222	3,692,550	4,290,300	4,782,300	492,000

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

5611 - District 1 Leeward West Section

Section's Activity

District 1 consists of the stations on the leeward side of the island from Waipahu to Makaha. Granular activated carbon filtration plants are located at Hoaeae Wells; Waipahu Wells I, II, III, and IV; Kunia Wells I and II; and Waipio Heights Wells III.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	470,647	507,600	740,800	652,300	(88,500)
4120 - Overtime	104,998	120,000	120,000	110,000	(10,000)
4130 - Miscellaneous (Payroll)	0	3,000	4,500	4,500	0
Personnel Services	575,645	630,600	865,300	766,800	(98,500)
4160 - Meals; Mileage & Uniform Allowances	5,053	7,000	7,000	7,000	0
4460 - Other Materials & Supplies	66,520	18,800	23,800	23,100	(700)
4470 - Parts and Accessories	123,398	89,000	105,000	66,000	(39,000)
4500 - Education and Training	1,151	3,500	3,500	3,500	0
4720 - Conference Travel & Expenses	0	900	400	600	200
4815 - Repair & Maint - Equipment	1,937	12,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	24,999	31,500	48,500	30,200	(18,300)
Materials, Supplies and Services	223,059	162,700	200,200	142,400	(57,800)
Total District 1 Leeward West Section	798,704	793,300	1,065,500	909,200	(156,300)

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

5612 - District 2 Central/Windward Section

Section's Activity

District 2 consists of the stations on the windward, central, and north shore areas of the island from Waimanalo to Kahuku to Mokuleia to Mililani. Granular activated carbon filtration plants are located at Waialua Wells; Haleiwa Wells; and Mililani Wells I and III.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	688,006	705,400	725,200	697,700	(27,500)
4120 - Overtime	277,255	200,000	210,000	170,000	(40,000)
4130 - Miscellaneous (Payroll)	0	6,000	6,000	6,000	0
Personnel Services	965,261	911,400	941,200	873,700	(67,500)
4160 - Meals; Mileage & Uniform Allowances	15,413	8,400	8,400	8,400	0
4430 - Miscellaneous Supplies	311	0	0	0	0
4440 - Motor Vehicle Parts & Accessories	1,019	0	0	0	0
4460 - Other Materials & Supplies	148,852	31,300	27,000	29,100	2,100
4470 - Parts and Accessories	119,149	88,000	91,000	90,500	(500)
4500 - Education and Training	350	3,500	3,500	3,500	0
4720 - Conference Travel & Expenses	0	900	400	600	200
4815 - Repair & Maint - Equipment	0	12,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	0	31,500	67,000	38,500	(28,500)
Materials, Supplies and Services	285,093	175,600	209,300	182,600	(26,700)
Total District 2 Central/Windward Section	1,250,354	1,087,000	1,150,500	1,056,300	(94,200)

Budget Highlights

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WSO - Water System Operations

5613 - District 3 Metropolitan Section

Section's Activity

District 3 consists of the stations in Metropolitan Honolulu from Kalihi to Makapu'u.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	470,351	710,100	667,700	770,400	102,700
4120 - Overtime	178,105	200,000	170,000	170,000	0
4130 - Miscellaneous (Payroll)	0	6,000	6,000	6,000	0
Personnel Services	648,457	916,100	843,700	946,400	102,700
4160 - Meals; Mileage & Uniform Allowances	10,004	6,500	6,500	6,500	0
4460 - Other Materials & Supplies	25,284	18,000	11,000	11,200	200
4470 - Parts and Accessories	245,474	120,000	119,000	113,000	(6,000)
4500 - Education and Training	277	3,500	3,500	3,500	0
4720 - Conference Travel & Expenses	0	900	400	600	200
4815 - Repair & Maint - Equipment	5,915	12,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	25,488	41,500	46,300	40,300	(6,000)
Materials, Supplies and Services	312,442	202,400	198,700	187,100	(11,600)
1270 - General Plant & Equip (over \$5,000)	0	10,000	55,000	30,000	(25,000)
Equipment	0	10,000	55,000	30,000	(25,000)
Total District 3 Metropolitan Section	960,899	1,128,500	1,097,400	1,163,500	66,100

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

5614 - District 4 Leeward East Section

Section's Activity

District 4 consists of the stations from Kalihi to Pearl City.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	409,553	715,300	724,300	642,700	(81,600)
4120 - Overtime	73,190	60,000	60,000	80,000	20,000
4130 - Miscellaneous (Payroll)	7,582	5,000	5,000	5,000	0
Personnel Services	490,325	780,300	789,300	727,700	(61,600)
4160 - Meals; Mileage & Uniform Allowances	2,847	5,500	5,500	5,500	0
4460 - Other Materials & Supplies	31,091	22,300	15,600	16,600	1,000
4470 - Parts and Accessories	249,109	93,000	98,000	100,000	2,000
4500 - Education and Training	143	3,500	3,500	3,500	0
4720 - Conference Travel & Expenses	0	900	400	600	200
4815 - Repair & Maint - Equipment	12,524	12,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	18,769	68,500	84,500	63,000	(21,500)
Materials, Supplies and Services	314,482	205,700	219,500	201,200	(18,300)
Total District 4 Leeward East Section	804,807	986,000	1,008,800	928,900	(79,900)

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

5615 - Control Center

Section's Activity

The Control Center section operates the department's island-wide water system on a 24/7 basis and is responsible for maintaining proper system pressure and levels to meet the needs of our customers. Due to its round-the-clock operation, the Control Center has the responsibility of being the point of contact for the public outside of BWS regular working hours.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	628,649	691,700	760,600	825,400	64,800
4120 - Overtime	202,713	130,000	140,000	140,000	0
4130 - Miscellaneous (Payroll)	0	4,000	19,000	19,000	0
Personnel Services	831,362	825,700	919,600	984,400	64,800
4160 - Meals; Mileage & Uniform Allowances	10,428	6,000	6,000	6,000	0
4460 - Other Materials & Supplies	1,137	0	0	0	0
4500 - Education and Training	0	4,900	4,900	4,200	(700)
4720 - Conference Travel & Expenses	0	1,800	800	600	(200)
8050 - Equipment (under \$5,000)	0	2,500	4,400	5,500	1,100
Materials, Supplies and Services	11,565	15,200	16,100	16,300	200
Total Control Center	842,927	840,900	935,700	1,000,700	65,000

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

5616 - Technical Services

Section's Activity

The Technical Services section operates, maintains, repairs, and installs air conditioners, exhaust blowers, fans, and electrical power at Beretania and the five outlying base yards; and maintains flow tubes.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	283,693	393,500	433,200	497,100	63,900
4120 - Overtime	7,083	24,000	24,000	18,500	(5,500)
4130 - Miscellaneous (Payroll)	1,027	6,000	6,000	5,000	(1,000)
Personnel Services	291,803	423,500	463,200	520,600	57,400
4160 - Meals; Mileage & Uniform Allowances	675	2,000	3,000	3,000	0
4250 - Other Contractual Services	8,038	0	0	0	0
4460 - Other Materials & Supplies	24,065	26,000	10,000	10,000	0
4470 - Parts and Accessories	23,301	60,000	54,000	51,000	(3,000)
4500 - Education and Training	0	3,500	3,500	3,500	0
4720 - Conference Travel & Expenses	0	900	400	600	200
4815 - Repair & Maint - Equipment	1,379	12,000	14,400	14,400	0
8050 - Equipment (under \$5,000)	22,000	22,000	54,000	54,000	0
Materials, Supplies and Services	79,458	126,400	139,300	136,500	(2,800)
1270 - General Plant & Equip (over \$5,000)	0	0	15,000	15,000	0
Equipment	0	0	15,000	15,000	0
Total Technical Services	371,260	549,900	617,500	672,100	54,600

Budget Highlights

**Board of Water Supply
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WSO - Water System Operations

5620 - Telecommunications

Section's Activity

The Telecommunications section plans, modifies, adapts, installs, operates, maintains, and repairs telecommunications equipment used in radio, microwave, supervisory control and telemetry networks covering the water distribution and pumping systems of the department and industrial electronic equipment used in the operation of electrical pumping plants and underground pipe locating devices; designs multifunction telemetry and supervisory control systems and mobile radio systems.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	147,701	343,400	270,300	366,800	96,500
4120 - Overtime	2,084	16,000	12,000	12,000	0
4130 - Miscellaneous (Payroll)	0	2,000	2,000	2,000	0
Personnel Services	149,785	361,400	284,300	380,800	96,500
4160 - Meals; Mileage & Uniform Allowances	32	800	600	300	(300)
4250 - Other Contractual Services	64,663	116,000	63,000	64,000	1,000
4410 - Gasoline	40	0	0	0	0
4460 - Other Materials & Supplies	130	6,500	4,650	4,000	(650)
4470 - Parts and Accessories	108,824	80,000	75,000	72,000	(3,000)
4500 - Education and Training	212	2,100	1,750	1,400	(350)
4670 - Telemetry	196,862	200,000	220,000	200,000	(20,000)
4720 - Conference Travel & Expenses	0	900	400	600	200
4815 - Repair & Maint - Equipment	8,628	9,000	8,000	7,000	(1,000)
8050 - Equipment (under \$5,000)	275,438	153,400	81,500	77,500	(4,000)
Materials, Supplies and Services	654,829	568,700	454,900	426,800	(28,100)
1270 - General Plant & Equip (over \$5,000)	0	65,500	50,500	22,500	(28,000)
Equipment	0	65,500	50,500	22,500	(28,000)
Total Telecommunications	804,614	995,600	789,700	830,100	40,400

Budget Highlights

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WSO - Water System Operations

5660 - Automotive

Section's Activity

The Automotive section operates the maintenance and repair shops; prepares plans and specifications for the purchase of vehicles and special construction equipment; maintains and repairs vehicles, construction, and special equipment; disposes of retired fleet equipment; maintains and constructs special tools and equipment; conducts research work in the automotive field.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	1,133,496	1,439,900	1,439,000	1,601,200	162,200
4120 - Overtime	7,721	18,000	20,000	20,000	0
4130 - Miscellaneous (Payroll)	0	22,000	22,000	22,000	0
Personnel Services	1,141,217	1,479,900	1,481,000	1,643,200	162,200
4160 - Meals; Mileage & Uniform Allowances	514	1,800	1,800	1,800	0
4250 - Other Contractual Services	81,999	179,800	298,900	264,000	(34,900)
4251 - Software Licenses and Maintenance	1,500	5,100	5,100	5,500	400
4267 - Printed forms	0	300	300	300	0
4410 - Gasoline	753,894	803,200	883,520	1,032,020	148,500
4430 - Miscellaneous Supplies	1,148	600	1,000	2,000	1,000
4440 - Motor Vehicle Parts & Accessories	320,289	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	54,258	108,500	108,500	108,500	0
4470 - Parts and Accessories	71,405	70,000	70,000	95,000	25,000
4500 - Education and Training	500	16,000	15,200	14,400	(800)
4720 - Conference Travel & Expenses	0	1,600	400	800	400
4805 - Repair & Maint - Structures	0	4,000	4,000	4,000	0
4815 - Repair & Maint - Equipment	63,912	90,000	90,000	90,000	0
4910 - Miscellaneous Fees & Registration	718	2,900	2,900	0	(2,900)
4915 - Miscellaneous Financial Expenses	400	0	0	0	0
8050 - Equipment (under \$5,000)	3,725	23,150	16,630	13,050	(3,580)
Materials, Supplies and Services	1,354,263	1,758,950	1,950,250	2,083,370	133,120
1270 - General Plant & Equip (over \$5,000)	3,210,477	3,822,200	3,737,100	1,768,200	(1,968,900)
Equipment	3,210,477	3,822,200	3,737,100	1,768,200	(1,968,900)
Total Automotive	5,705,957	7,061,050	7,168,350	5,494,770	(1,673,580)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2024**

WSO - Water System Operations

5201 - Ocean Cooling

Section's Activity

The Ocean Cooling program is responsible, under a 20-year contract, for the operation and maintenance of the seawater cooling facility at the University of Hawaii John A. Burns School of Medicine in Kaka'ako. The use of cold seawater for building cooling conserves potable water and energy that would otherwise be used in conventional mechanical cooling systems.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4250 - Other Contractual Services	607,295	380,000	400,000	400,000	0
4815 - Repair & Maint - Equipment	0	80,000	230,000	250,000	20,000
Materials, Supplies and Services	607,295	460,000	630,000	650,000	20,000
Total Ocean Cooling	607,295	460,000	630,000	650,000	20,000

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2024**

IT - Information Technology

Division/Office's Activity

The Information Technology Division designs, develops, maintains, and supports BWS databases, software systems, server/workstation/mobile hardware and software, wired/wireless networks, and voice/video and call center systems.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	3,457,223	3,902,900	4,011,800	4,344,300	332,500
4120 - Overtime	63,174	153,000	175,500	139,000	(36,500)
4130 - Miscellaneous (Payroll)	4,234	12,000	63,980	43,660	(20,320)
Personnel Services	3,524,630	4,067,900	4,251,280	4,526,960	275,680
4160 - Meals; Mileage & Uniform Allowances	444	1,900	1,800	20,600	18,800
4250 - Other Contractual Services	6,066,667	6,236,035	10,522,195	9,037,045	(1,485,150)
4251 - Software Licenses and Maintenance	2,960,869	2,872,204	3,572,176	3,884,031	311,855
4270 - Professional Services	36,649	100,000	0	0	0
4430 - Miscellaneous Supplies	4,305	2,700	2,200	3,200	1,000
4460 - Other Materials & Supplies	108,629	144,200	110,700	95,700	(15,000)
4470 - Parts and Accessories	21,756	14,000	12,000	25,000	13,000
4480 - Postage	387,792	550,100	730,100	750,300	20,200
4500 - Education and Training	12,147	26,955	41,680	47,640	5,960
4650 - Security Camera - Cable Line Services	888	0	0	0	0
4720 - Conference Travel & Expenses	464	1,700	1,700	5,500	3,800
4815 - Repair & Maint - Equipment	145,191	282,950	297,600	263,800	(33,800)
4910 - Miscellaneous Fees & Registration	103,360	127,100	156,600	171,700	15,100
8050 - Equipment (under \$5,000)	945,774	1,106,324	1,424,035	1,502,970	78,935
Materials, Supplies and Services	10,794,933	11,466,168	16,872,786	15,807,486	(1,065,300)
1270 - General Plant & Equip (over \$5,000)	379,783	295,000	790,000	381,000	(409,000)
Equipment	379,783	295,000	790,000	381,000	(409,000)
Total IT - Information Technology	14,699,346	15,829,068	21,914,066	20,715,446	(1,198,620)

Notes

**Board of Water Supply
Operating Budget
Fiscal Year 2024**

IT - Information Technology

5805 - IT Administration

Section's Activity

The Administration section provides strategic planning, technology management, policy direction, cyber security program management, and administrative support services for the Information Technology Division.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	457,530	440,000	532,000	559,400	27,400
4120 - Overtime	639	4,000	11,500	0	(11,500)
4130 - Miscellaneous (Payroll)	0	0	51,980	31,660	(20,320)
Personnel Services	458,170	444,000	595,480	591,060	(4,420)
4160 - Meals; Mileage & Uniform Allowances	0	400	300	0	(300)
4250 - Other Contractual Services	50,202	0	360,000	282,000	(78,000)
4251 - Software Licenses and Maintenance	0	0	230,000	200,000	(30,000)
4270 - Professional Services	0	100,000	0	0	0
4460 - Other Materials & Supplies	1,870	3,000	2,500	2,500	0
4500 - Education and Training	8,165	2,400	5,000	6,000	1,000
4910 - Miscellaneous Fees & Registration	52,629	75,100	98,100	113,200	15,100
8050 - Equipment (under \$5,000)	525	0	0	0	0
Materials, Supplies and Services	113,391	180,900	695,900	603,700	(92,200)
Total IT Administration	571,560	624,900	1,291,380	1,194,760	(96,620)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2024**

IT - Information Technology

5820 - Application Systems Development

Section's Activity

The Application Systems Development section is responsible for providing application and data management services for all enterprise systems of the department including, customer information system, water and sewer billings, financial/HR (payroll, accounts payable and cost accounting, time tracking, etc.), laboratory information, asset maintenance, and workforce management.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	896,145	1,078,600	1,096,400	1,198,400	102,000
4120 - Overtime	30,308	110,000	110,000	110,000	0
4130 - Miscellaneous (Payroll)	0	12,000	12,000	12,000	0
Personnel Services	926,454	1,200,600	1,218,400	1,320,400	102,000
4160 - Meals; Mileage & Uniform Allowances	48	1,500	1,500	600	(900)
4250 - Other Contractual Services	906,489	1,100,984	4,486,695	2,964,384	(1,522,311)
4251 - Software Licenses and Maintenance	1,299,195	1,354,614	1,615,626	2,018,158	402,532
4430 - Miscellaneous Supplies	0	1,200	1,200	1,200	0
4460 - Other Materials & Supplies	164	0	0	0	0
4500 - Education and Training	799	15,580	34,180	30,540	(3,640)
4910 - Miscellaneous Fees & Registration	0	26,000	26,000	26,000	0
Materials, Supplies and Services	2,206,694	2,499,878	6,165,201	5,040,882	(1,124,319)
Total Application Systems Development	3,133,148	3,700,478	7,383,601	6,361,282	(1,022,319)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2024**

IT - Information Technology

5835 - Technical Engineering Projects

Section's Activity

The Technical Engineering Projects branch plans, designs, installs, implements, manages, maintains, and supports the BWS Geographic Information System and spacial database. This section also manages and maintains the BWS hydraulic models for currency and accuracy, in conjunction with Water Resources.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	829,009	932,900	891,700	989,500	97,800
4120 - Overtime	1,916	4,000	4,000	4,000	0
4130 - Miscellaneous (Payroll)	4,234	0	0	0	0
Personnel Services	835,159	936,900	895,700	993,500	97,800
4250 - Other Contractual Services	706,368	810,000	910,000	760,000	(150,000)
4251 - Software Licenses and Maintenance	347,535	420,500	402,500	397,000	(5,500)
4270 - Professional Services	36,649	0	0	0	0
4430 - Miscellaneous Supplies	314	500	500	500	0
4460 - Other Materials & Supplies	2,296	1,200	1,200	1,200	0
4480 - Postage	64	100	100	300	200
4500 - Education and Training	300	2,500	2,500	2,500	0
4720 - Conference Travel & Expenses	464	1,700	1,700	5,500	3,800
4815 - Repair & Maint - Equipment	2,933	4,600	6,500	13,000	6,500
4910 - Miscellaneous Fees & Registration	100	0	6,500	6,500	0
8050 - Equipment (under \$5,000)	13,052	2,000	7,500	12,500	5,000
Materials, Supplies and Services	1,110,076	1,243,100	1,339,000	1,199,000	(140,000)
1270 - General Plant & Equip (over \$5,000)	13,876	15,000	0	0	0
Equipment	13,876	15,000	0	0	0
Total Technical Engineering Projects	1,959,111	2,195,000	2,234,700	2,192,500	(42,200)

Budget Highlights

**Board of Water Supply
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Fiscal Year 2024**

IT - Information Technology

5830 - Computer Operations

Section's Activity

The Computer Operations Support branch is responsible for planning, scheduling, administrating, and coordinating the department's network and computer services operations (machine processing); and infrastructure operations, update, and maintenance. Included in this is wired/ wireless network devices/services, servers, workstations, mobile devices, cloud based services, etc.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	1,274,538	1,451,400	1,491,700	1,597,000	105,300
4120 - Overtime	30,310	35,000	50,000	25,000	(25,000)
Personnel Services	1,304,848	1,486,400	1,541,700	1,622,000	80,300
4160 - Meals; Mileage & Uniform Allowances	396	0	0	20,000	20,000
4250 - Other Contractual Services	4,403,608	4,325,051	4,765,500	5,030,661	265,161
4251 - Software Licenses and Maintenance	1,314,139	1,097,090	1,324,050	1,268,873	(55,177)
4430 - Miscellaneous Supplies	3,991	1,000	500	1,500	1,000
4460 - Other Materials & Supplies	104,299	140,000	107,000	92,000	(15,000)
4470 - Parts and Accessories	21,756	14,000	12,000	25,000	13,000
4480 - Postage	387,728	550,000	730,000	750,000	20,000
4500 - Education and Training	2,883	6,475	0	8,600	8,600
4650 - Security Camera - Cable Line Services	888	0	0	0	0
4815 - Repair & Maint - Equipment	142,259	278,350	291,100	250,800	(40,300)
4910 - Miscellaneous Fees & Registration	50,630	26,000	26,000	26,000	0
8050 - Equipment (under \$5,000)	932,197	1,104,324	1,416,535	1,490,470	73,935
Materials, Supplies and Services	7,364,773	7,542,290	8,672,685	8,963,904	291,219
1270 - General Plant & Equip (over \$5,000)	365,907	280,000	790,000	381,000	(409,000)
Equipment	365,907	280,000	790,000	381,000	(409,000)
Total Operations Support	9,035,528	9,308,690	11,004,385	10,966,904	(37,481)

Budget Highlights

**Board of Water Supply
Operating Budget
Fiscal Year 2024**

FIN - Finance

Division/Office's Activity

The Finance Division is responsible for controlling and directing the financial accounting activities of the department. Activities include conducting financial studies; administering long-term bonded debt programs and bond sales; assisting in controlling budgeted expenditures; and administering the general accounting systems including cost accounting, payroll, leave records, and accounts payable.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	2,132,955	2,301,600	2,335,200	2,609,900	274,700
4120 - Overtime	40,818	61,800	63,300	66,500	3,200
4130 - Miscellaneous (Payroll)	1,267	73,000	72,000	28,000	(44,000)
Personnel Services	2,175,040	2,436,400	2,470,500	2,704,400	233,900
4160 - Meals; Mileage & Uniform Allowances	1,570	5,200	5,500	2,500	(3,000)
4220 - Collection Fees	287	0	500	500	0
4250 - Other Contractual Services	12,947	16,800	10,000	15,000	5,000
4270 - Professional Services	1,408,580	1,369,600	1,021,600	957,000	(64,600)
4430 - Miscellaneous Supplies	9,389	15,000	15,000	15,000	0
4460 - Other Materials & Supplies	65	3,500	1,000	1,000	0
4500 - Education and Training	4,095	7,200	4,400	1,200	(3,200)
4720 - Conference Travel & Expenses	0	10,900	3,100	3,100	0
4815 - Repair & Maint - Equipment	6,756	9,000	9,000	6,000	(3,000)
4910 - Miscellaneous Fees & Registration	920	1,000	1,250	1,250	0
4915 - Miscellaneous Financial Expenses	1,182,410	2,084,000	2,290,000	2,370,650	80,650
8050 - Equipment (under \$5,000)	0	700	5,300	1,200	(4,100)
Materials, Supplies and Services	2,627,019	3,522,900	3,366,650	3,374,400	7,750
1270 - General Plant & Equip (over \$5,000)	0	0	65,000	36,000	(29,000)
Equipment	0	0	65,000	36,000	(29,000)
Total FIN - Finance	4,802,060	5,959,300	5,902,150	6,114,800	212,650

Notes

**Board of Water Supply
Operating Budget
Fiscal Year 2024**

FIN - Finance

5900 - Finance Administration

Section's Activity

The Finance Administration section develops, provides, and manages financial and administrative support services to all levels of the department.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	379,447	369,800	381,100	406,400	25,300
4120 - Overtime	13	200	0	0	0
4130 - Miscellaneous (Payroll)	0	0	0	1,000	1,000
Personnel Services	379,460	370,000	381,100	407,400	26,300
4160 - Meals; Mileage & Uniform Allowances	28	0	300	300	0
4250 - Other Contractual Services	2,107	5,000	5,000	5,000	0
4270 - Professional Services	482,798	336,600	308,600	213,600	(95,000)
4430 - Miscellaneous Supplies	9,389	15,000	15,000	15,000	0
4500 - Education and Training	4,095	7,200	4,400	1,200	(3,200)
4720 - Conference Travel & Expenses	0	10,900	3,100	3,100	0
4815 - Repair & Maint - Equipment	195	1,000	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	920	1,000	1,250	1,250	0
4915 - Miscellaneous Financial Expenses	7,200	0	0	0	0
Materials, Supplies and Services	506,731	376,700	338,650	240,450	(98,200)
Total Finance Administration	886,191	746,700	719,750	647,850	(71,900)

Budget Highlights

**Board of Water Supply
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FIN - Finance

5910 - Treasury

Section's Activity

The Treasury section administers and manages the long term bonded debt and federal loan programs; obtains other long term and short term financing as necessary; manages the department's cash flows; and administers and oversees the management of the department's investment program.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	85,032	100,600	103,900	173,600	69,700
4120 - Overtime	0	1,000	1,000	500	(500)
Personnel Services	85,032	101,600	104,900	174,100	69,200
4270 - Professional Services	575,460	533,000	713,000	743,400	30,400
4915 - Miscellaneous Financial Expenses	1,175,210	2,084,000	2,290,000	2,370,650	80,650
Materials, Supplies and Services	1,750,670	2,617,000	3,003,000	3,114,050	111,050
Total Treasury	1,835,702	2,718,600	3,107,900	3,288,150	180,250

Budget Highlights

**Board of Water Supply
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Fiscal Year 2024**

FIN - Finance

5915 - Rev & Cust Accounting Section

Section's Activity

The Revenue and Customer Accounting section conducts the department's billing operations and related functions which include meter reading, pre-auditing of consumer accounts, part-rate billing, maintaining consumer records; maintaining accounts receivable and keeping special fund accounts; maintaining revenue accounting and statistical reports.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	757,757	887,100	882,400	969,900	87,500
4120 - Overtime	29,367	50,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	0	2,000	2,000	2,000	0
Personnel Services	787,124	939,100	934,400	1,021,900	87,500
4160 - Meals; Mileage & Uniform Allowances	1,058	5,000	5,000	2,000	(3,000)
4250 - Other Contractual Services	10,840	11,800	5,000	10,000	5,000
4460 - Other Materials & Supplies	65	3,500	1,000	1,000	0
4815 - Repair & Maint - Equipment	6,561	8,000	8,000	5,000	(3,000)
8050 - Equipment (under \$5,000)	0	0	2,000	1,200	(800)
Materials, Supplies and Services	18,524	28,300	21,000	19,200	(1,800)
1270 - General Plant & Equip (over \$5,000)	0	0	0	36,000	36,000
Equipment	0	0	0	36,000	36,000
Total Rev	805,648	967,400	955,400	1,077,100	121,700

Budget Highlights

**Board of Water Supply
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FIN - Finance

5930 - General Accounting

Section's Activity

The General Accounting section directs and coordinates the development, functional effectiveness and maintenance of accounting systems, records, procedures, and reports to ensure the acquisition of valid and consistent data for use in planning and budgeting, performance control and evaluation, managerial decisions, and reporting requirements; prepares monthly financial and statistical reports and studies; prepares payrolls and maintains leave records; audits and processes disbursement vouchers; maintains all property records and depreciation schedules; coordinates annual physical inventory of utility plant and prepares annual listing as required by City Charter; prepares and analyzes special reports and studies.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	624,131	655,900	672,000	705,700	33,700
4120 - Overtime	10,857	7,900	9,100	12,000	2,900
4130 - Miscellaneous (Payroll)	1,267	71,000	70,000	25,000	(45,000)
Personnel Services	636,254	734,800	751,100	742,700	(8,400)
4160 - Meals; Mileage & Uniform Allowances	485	200	200	200	0
4220 - Collection Fees	287	0	500	500	0
8050 - Equipment (under \$5,000)	0	700	3,300	0	(3,300)
Materials, Supplies and Services	772	900	4,000	700	(3,300)
Total General Accounting	637,026	735,700	755,100	743,400	(11,700)

Budget Highlights

**Board of Water Supply
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Fiscal Year 2024**

FIN - Finance

5940 - Fiscal Services

Section's Activity

The Fiscal Services branch is responsible for reporting on budgetary, encumbrance, and financial activities within the department. This branch records and reconciles all contract and claims encumbrances with the City annually at fiscal year-end; controls, edits, and monitors reports on encumbrances extensions, insufficient funds, and accounts payable; maintains and coordinates an online vendor table (data file) for approximately 50,000 vendors for field and central use. This branch assigns vendor codes for all payment documents for timely and accurate payment processing and administers the purchasing card program for the procurement of goods and services. Fiscal Services designs hard-copy and electronic encumbrance liquidation and payment forms for departmental use and submittal to Accounts Payable.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	210,995	215,500	220,200	274,100	53,900
4120 - Overtime	0	0	200	500	300
Personnel Services	210,995	215,500	220,400	274,600	54,200
4270 - Professional Services	350,322	500,000	0	0	0
Materials, Supplies and Services	350,322	500,000	0	0	0
Total Fiscal Services	561,318	715,500	220,400	274,600	54,200

Budget Highlights

**Board of Water Supply
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Fiscal Year 2024**

FIN - Finance

5950 - Systems Accounting

Section's Activity

This System Accounting section is responsible for the planning, coordination, modification, and administration of the financial management system for the BWS. This section spearheads initiatives and projects to troubleshoot the organization's financial systems.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4110 - Salaries & Wages	75,593	72,700	75,600	80,200	4,600
4120 - Overtime	581	2,700	3,000	3,500	500
Personnel Services	76,175	75,400	78,600	83,700	5,100
Total Systems Accounting	76,175	75,400	78,600	83,700	5,100

Budget Highlights

**Board of Water Supply
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FC - Fixed Charges and Debt Service

Division/Office's Activity

The activity represents fixed charges and non-divisional expenditures of a general nature not related to any divisional budget.

Account	FY2022 Actual	FY2022 Adopted Budget	FY2023 Adopted Budget	FY2024 Proposed Budget	Change
4610 - Electric Power - Water Distrib Fac	25,864,768	22,000,000	26,000,000	31,200,000	5,200,000
4620 - Electricity	1,217,467	1,100,000	1,200,000	1,440,000	240,000
4660 - Wastewater Service Charges	104,595	120,000	120,000	110,000	(10,000)
5600 - Central Admin Service Exp (CASE) Fees	3,300,000	3,300,000	3,300,000	3,300,000	0
6010 - Employee Retirement Sys (ERS)	10,947,157	11,000,000	12,400,000	12,500,000	100,000
6020 - FICA Contributions	3,019,894	3,200,000	3,000,000	3,000,000	0
6100 - Health Benefits - Employees	4,036,284	4,000,000	4,300,000	4,000,000	(300,000)
6200 - Health Benefits - Retirees	6,952,012	7,280,400	7,050,000	7,040,644	(9,356)
6250 - Other Post-Emplymnt Ben (OPEB)	1,979,588	1,637,608	2,090,000	1,262,356	(827,644)
6320 - Unemployment Insurance Benefits	60,401	13,000	24,500	80,000	55,500
Departmental Fixed Charges	57,482,165	53,651,008	59,484,500	63,933,000	4,448,500
1810 - Bonds Payable	13,145,000	12,605,000	14,845,000	15,370,000	525,000
1820 - Notes Payable - State Revolving Funds (SRF)	6,783,941	6,591,000	7,094,300	10,339,000	3,244,700
7071 - Bond Interest	10,629,789	10,392,000	12,571,600	12,513,165	(58,435)
Debt Service	30,558,729	29,588,000	34,510,900	38,222,165	3,711,265
Total FC - Fixed Charges and Debt Service	88,040,895	83,239,008	93,995,400	102,155,165	8,159,765

Notes



PART II

CAPITAL IMPROVEMENT PROGRAM BUDGET

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Board of Water Supply
Capital Improvement Program
FY 2024

Summary by Categories	Operating Fund (1)	State Revolving Fund (2)	Special Expendable Fund (3)	Improvement Fund (4)	Extramural Fund (5)	Total
I. Research and Development	2,500,000	-	-	2,500,000	10,000,000	15,000,000
II. Renewal and Replacement						
A. Pumps	3,800,000	-	-	8,240,000	-	12,040,000
B. Reservoirs	-	-	-	-	-	-
C. Pipelines	450,000	5,100,000	-	8,000,000	5,100,000	18,650,000
D. Treatment	4,500,000	-	-	-	-	4,500,000
E. Facilities	9,360,000	-	-	15,500,000	-	24,860,000
Category II - sub-total	18,110,000	5,100,000	-	31,740,000	5,100,000	60,050,000
III. Capacity Expansion						
A. Pumps	-	-	-	5,100,000	-	5,100,000
B. Reservoirs	-	15,700,000	-	-	-	15,700,000
C. Pipelines	-	15,000,000	-	3,300,000	3,300,000	21,600,000
D. Treatment	-	-	-	-	-	-
E. Facilities	-	-	35,000,000	-	25,000,000	60,000,000
Category III - sub-total	-	30,700,000	35,000,000	8,400,000	28,300,000	102,400,000
Total - Categories I - III	20,610,000	35,800,000	35,000,000	42,640,000	43,400,000	177,450,000
Construction Cost Index Account	1,586,000	3,580,000	3,500,000	3,520,000	4,010,000	16,196,000
Contract Adjustment Account	12,500,000	-	2,250,000	4,250,000	-	19,000,000
Capital Improvement Program - Total	34,696,000	39,380,000	40,750,000	50,410,000	47,410,000	212,646,000

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

(2) State of Hawaii Department of Health State Revolving Fund (SRF) loan program is defined as low interest project loans from the State of Hawaii.

(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.

Board of Water Supply
Capital Improvement Program
FY 2024

				Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
<u>I. Research and Development</u>									
1. Exploratory Wells for Red Hill Contamination Response	Drill, case, install test pump and sample one exploratory well at Newtown 550' as possible replacement sources for the loss of Halawa Shaft due to the Red Hill fuel contamination.	CP-S	Const	500,000	-	-	-	3,000,000	3,500,000
2. Monitoring Wells for Red Hill Contamination Response	Drill and case up to ten (10) monitoring wells for use as "sentinel" wells to warn of the presence of an underground fuel plume from the Red Hill fuel contamination.	CP-S	Const	-	-	-	2,500,000	7,000,000	9,500,000
3. Construction Management for Various BWS Construction Projects	Provide construction management and training services for selected BWS construction projects.	CP-CM	P&E	2,000,000	-	-	-	-	2,000,000
Total Category I - Research and Development				2,500,000	-	-	2,500,000	10,000,000	15,000,000
<u>II. Renewal and Replacement</u>									
A. Pumps									
4. Waihee Tunnel and Inclined Wells Chlorinator	Renovate the existing motor control building for the inactive Waihee Wells I converting it to a chlorinator and telecommunications building.	CP-ME	Const	-	-	-	6,000,000	-	6,000,000
5. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities	CP-ME	Const	3,500,000	-	-	-	-	3,500,000
6. Kalihi Hi-Service Booster Electrical Upgrades	Install electrical upgrades.	CP-ME	P&E	-	-	-	500,000	-	500,000
7. Makakilo Booster No. 1 Electrical Upgrades and Facility Repairs	Install pump replacement, electrical upgrades, facility repairs and temporary pumping connection.	CP-ME	P&E	-	-	-	580,000	-	580,000
8. Hawaii Loa Booster No. 1 Pump and MCC Replacement	Install pump and MCC replacement.	CP-ME	P&E	-	-	-	580,000	-	580,000
9. Kaonohi Booster No. 2 MCC Replacement and Facility Repairs	Install pump and MCC replacement, and facility repairs.	CP-ME	P&E	-	-	-	580,000	-	580,000
10. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	CP-ME	P&E	300,000	-	-	-	-	300,000
Pumps Total				3,800,000	-	-	8,240,000	-	12,040,000

Board of Water Supply
Capital Improvement Program
FY 2024

				Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
B. Reservoirs									
Reservoirs Total				-	-	-	-	-	-
C. Pipelines									
11. Kahilina Place and Aiea Heights Drive 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 Aheahe Street, from Kanaloa Street to Aiea Heights Drive; and along Hakina Street, from Kanaloa Street to Kaulainaahee Place - approx. 4,070 lin. ft.	CP-D	Const	-	5,100,000	-	-	5,100,000	10,200,000
12. 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-D	Const	-	-	-	3,000,000	-	3,000,000
13. Halupa Street Water System Improvements	Install 12-inch mains and appurtenances along Halupa Street, from Punihi Street to Haloa Drive - approx. 2,000 lin. ft.	CP-D	Const	-	-	-	3,000,000	-	3,000,000
14. Service Lateral Replacement at Various Locations	Install and replace service laterals at various locations.	CP-S	Const	-	-	-	1,000,000	-	1,000,000
15. Water Main Installation and Replacement	Install and replace water mains at various locations.	CP	Const	100,000	-	-	-	-	100,000
16. Water System Improvements at Various Locations	Install mains and appurtenance to replace high risk water mains at various locations throughout the island.	CP-D	P&E	-	-	-	1,000,000	-	1,000,000
17. Service Laterals of Unknown Materials Replacement	Replace service laterals of unknown materials at various locations.	WQ	P&E	100,000	-	-	-	-	100,000
18. Service Lateral Replacement at Various Locations	Topographic Survey for the service lateral replacement at various locations.	CP-S	P&E	150,000	-	-	-	-	150,000
19. Water Main Installation & Replacement	Install and replace water mains at various locations.	CP	P&E	100,000	-	-	-	-	100,000
Pipelines Total				450,000	5,100,000	-	8,000,000	5,100,000	18,650,000

Board of Water Supply
Capital Improvement Program
FY 2024

					Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
D. Treatment										
20. 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	2,500,000	-	-	-	-	-	2,500,000
21. Mililani Wells I - GAC Replacement	Replace piping and valves, replace backwash filter tanks with stainless steel filters, provide new platform at backwash filters.	CP	Const	2,000,000	-	-	-	-	-	2,000,000
Treatment Total					4,500,000	-	-	-	-	4,500,000
E. Facilities										
22. Nuuanu Reservoir No. 1 Dam Improvements	Rehabilitate dam, spillway and outlet works; install remote water level monitoring equipment.	CP-S	Const	-	-	-	5,200,000	-	-	5,200,000
23. Nanakuli 242 Altitude Valve	Install altitude valve and appurtenances in the vicinity of the Nanakuli Booster.	CP-ME	Const	-	-	-	1,500,000	-	-	1,500,000
24. Honouliuli Water Recycling Facility Reroofing	Reroofing of the Honouliuli Water Recycling Facility Buildings.	WR	Const	260,000	-	-	-	-	-	260,000
25. 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	-	-	-	1,000,000	-	-	1,000,000
26. 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	2,000,000	-	-	-	-	-	2,000,000
27. Makaha Shaft Tunnel Rehabilitation	Replacement of all MCC, SCADA system, and all electrical components and appurtenances; replacement of pump units and associated piping, valves and appurtenances; replacement of ventilation system, plumbing system, and inclined elevator; replacement of 8-inch waterline and appurtenances; rehabilitation and expansion of the portal building; and replacement of the perimeter fencing.	CP-S	Const	-	-	-	7,500,000	-	-	7,500,000
28. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	CP-S	Const	5,000,000	-	-	-	-	-	5,000,000

Board of Water Supply
Capital Improvement Program
FY 2024

				Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
29. 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	P&E	-	-	-	300,000	-	300,000
30. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	CP-S	P&E	1,500,000	-	-	-	-	1,500,000
31. Professional Services for BWS Projects	Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	CP	P&E	300,000	-	-	-	-	300,000
32. Pump Station Assessment and Operations/Repairs	Update pump station condition assessments and operations database.	WSO	P&E	300,000	-	-	-	-	300,000
Facilities Total				9,360,000	-	-	15,500,000	-	24,860,000
Total Category II - Renewal and Replacement				18,110,000	5,100,000	-	31,740,000	5,100,000	60,050,000
III. Capacity Expansion									
A. Pumps									
33. Maakua Well Unit No. 2	Install new pump no. 2 in existing well including piping, valves, instrumentation, MCC, mute building, and retaining wall.(TMK: 5-4-005:001).	CP	Const	-	-	-	4,500,000	-	4,500,000
34. Red Hill Contamination Response Production Well - Aiea 497'	Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for the Red Hill contamination response production well at Aiea 497'.	WR	P&E	-	-	-	300,000	-	300,000
35. Waialae Nui Well	Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for one (1) production well at the existing Waialae Nui Well site (Well 3-1747-003).	WR	P&E	-	-	-	300,000	-	300,000
Pumps Total				-	-	-	5,100,000	-	5,100,000

Board of Water Supply
Capital Improvement Program
FY 2024

					Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
B. Reservoirs										
36. East Kapolei 215 R-1 3.0 MG Reservoir	Install 3.0 MG R-1 reservoir and appurtenances (TMK: 9-1-018:008). Install 16-inch main and appurtenances along the access road, from the reservoir to Farrington Highway - approx. 2,300 lin. ft.	CP-D	Const	-	15,700,000	-	-	-	-	15,700,000
Reservoirs Total					-	15,700,000	-	-	-	15,700,000
C. Pipelines										
37. Kualakai Parkway 16-Inch Recycled Water Main	Install 16-inch transmission main and appurtenances along Farrington Highway, from the access road to East Kapolei 215 recycled water reservoir to Kualakai Parkway; and along Kualakai Parkway, from Farrington Highway to Kapolei Parkway - approx. 12,000 lin. ft.	CP-S	Const	-	15,000,000	-	-	-	-	15,000,000
38. Honolulu District 42-Inch Mains - Liliha to Moiliili	Phase I - Install 42-inch mains and appurtenances along North King Street, from Dillingham Boulevard to North Beretania Street; and along North Beretania Street, from North King Street to Nuuanu Avenue - approx. 2,830 lin. ft.	CP	P&E	-	-	-	3,000,000	3,000,000	-	6,000,000
39. Honolulu District 42-Inch Mains - Liliha to Moiliili AIS	Prepare and submit an archaeological inventory survey (AIS) plan, and conduct and complete an AIS for the Honolulu District 42-Inch Mains - Liliha to Moiliili.	WR	P&E	-	-	-	300,000	300,000	-	600,000
Pipelines Total					-	15,000,000	-	3,300,000	3,300,000	21,600,000
D. Treatment										
Treatment Total					-	-	-	-	-	-

Board of Water Supply
Capital Improvement Program
FY 2024

		Operating Fund	State Revolving Fund	Special Expendable Fund	Improvement Funds	Extramural Fund	Total		
E. Facilities									
40. 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	-	-	35,000,000	-	25,000,000	60,000,000
Facilities Total		-	-	35,000,000	-	25,000,000	60,000,000		
Total Category III - Capacity Expansion		-	30,700,000	35,000,000	8,400,000	28,300,000	102,400,000		
Total Categories I - III		20,610,000	35,800,000	35,000,000	42,640,000	43,400,000	177,450,000		
Construction Cost Index Adjustment		1,586,000	3,580,000	3,500,000	3,520,000	4,010,000	16,196,000		
Contract Adjustment Account		12,500,000	-	2,250,000	4,250,000	-	19,000,000		
FY23 Capital Improvement Program Total		34,696,000	39,380,000	40,750,000	50,410,000	47,410,000	212,646,000		

REGULAR MEETING

"May 22, 2023

ADOPTION OF
RESOLUTION
NO. 966, 2023,
ADOPTING THE
OPERATING AND
CAPITAL
IMPROVEMENT
PROGRAM

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

Chair and Members:

Subject: Adoption of Resolution No. 966, 2023, Adopting the
Operating and Capital Improvement Program Budget for
the Fiscal Year 2023-2024 and Appropriating Funds
Therefor

We recommend adoption of the proposed Operating and Capital Improvement Program Budget for the fiscal year beginning July 1, 2023, and ending June 30, 2024.

A Public Hearing to consider the proposed budget, as required by the City Charter, was held on May 22, 2023. The affidavit attesting to the publication of the Public Hearing Notice is attached.

We further recommend the adoption of the attached Resolution No. 966, 2023, appropriating funds for the Operating and Capital Improvement Program Budget for the Fiscal Year 2023-2024, as follows:

1. The sum of \$241,683,964 from the Operating Fund for Operating Budget expenditures.
2. The sums of \$34,696,000 from the Operating Fund, \$39,380,000 from the State Revolving Loan Fund, \$50,410,000 from the Improvement Fund, \$40,750,000 from the Special Expendable Fund, and \$47,410,000 from the Extramural Fund, for a total of \$212,646,000 for Capital Improvement Program Budget expenditures.

Respectfully Submitted,

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

Attachment"

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

Chair Andaya asked how the BWS's Bond Ratings would be affected if its working capital, or cash on hand, fell below the minimum of 60 days.

Manager Lau stated that the BWS considers the working capital, cash on hand, as unencumbered cash which can be used for emergencies. He deferred to Mr. Joseph Cooper, Waterworks Controller, to explain the bond rating agency's views.

Chair Andaya commented that the BWS adopted the financial standard not to go below 60 days of working capital, which helped the BWS receive its current bond rating. However, Chair recognized that there is a possibility that the BWS may go below the minimum of 60 days of working capital.

Manager Lau explained that if the BWS's 60 days of working capital is used for an emergency, the BWS will work to rebuild its working capital balance in the future to meet the required minimum.

At 3:00 PM, Mr. Joseph Cooper, Waterworks Controller, Finance Division, joined the meeting via Zoom.

Chair Andaya repeated his question regarding how the BWS's bond rating(s) would be affected if the BWS's working capital fell below the minimum of 60 working days.

Mr. Cooper replied that the factors the bond rating agency look at are: being able to maintain a working capital, the management of the fund, and the ability to adjust its rates.

Board Member Max Sword asked if the minimum number of days required for working capital was higher in the past.

Mr. Cooper responded before 2018, the minimum number of days in working capital was 45 days. However, the BWS adopted a new financial policy increasing the minimum number of days of cash on hand to 60 days.

Manager Lau commented that the financial policy is to have 60 to 180 days of working capital on hand.

Mr. Cooper mentioned that the BWS has other financial tools to alleviate any cash shortages in an emergency.

Chair Andaya stated there would be no rate increase this year while the BWS is undergoing a rate study. The rate study will consider all expenses, including fuel and electricity surcharges, to better manage the BWS's budget and operations cost.

Board Member Sword inquired if there is a way to balance the power cost instead of the rate increase.

Manager Lau stated that the BWS has an existing rate structure tool that may be used: the power cost adjustment. He explained that the BWS

would come before the Board for guidance on a proposed update on its rate schedule at the next Board meeting.

Board Member Anthony commented that it is important to note that the BWS had to adjust its CIP to focus on the impacts of Red Hill, which came at the cost of reducing the pipeline replacement projects; instead of working towards reaching 21 miles of pipeline replacement each year, the BWS has only 1.5 miles of pipeline replacement planned for Fiscal Year 2024. However, with the help of Federal funding, these diversions of focus can ease the cost impacts on ratepayers.

Manager Lau stated it is a challenge. The BWS must ensure that there is enough source capacity to provide the pipelines with sufficient water supply to accommodate growth; then, the BWS can continue replacing pipelines. He agreed with Board Member Anthony and shared that the BWS will continue seeking external sources of funds that don't affect ratepayers.

**MOTION
TO APPROVE**

Max Sword and Jonathan Kaneshiro motioned and seconded, respectively, to approve the Adoption of Resolution No. 966, 2023, Adopting the Operating and Capital Improvement Program Budget for the Fiscal Year 2023-2024 and Appropriating Funds Therefor

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

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

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

ADOPTION OF RESOLUTION NO. 966, 2023, ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET FOR THE FISCAL YEAR 2023-2024 AND APPROPRIATING FUNDS THEREFOR WAS ADOPTED ON MAY 22, 2023			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT			ABSENT
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		
WARREN K. MAMIZUKA	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 966, 2023

RESOLUTION ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET FOR FISCAL YEAR 2024 AND APPROPRIATING FUNDS THEREFOR

BE IT RESOLVED by the Board of Water Supply, City and County of Honolulu, State of Hawaii, that in accordance with the provisions of Article VII of the Revised Charter of the City and County of Honolulu, the sum of TWO HUNDRED FORTY-ONE MILLION SIX HUNDRED EIGHTY-THREE THOUSAND NINE HUNDRED AND SIXTY-FOUR DOLLARS (\$241,683,964) be and the same is hereby appropriated out of all monies placed to the credit of the Operating Fund for expenditures of the Board of Water Supply Operating Budget for the fiscal year beginning July 1, 2023 and ending June 30, 2024 as follows:

OPERATING BUDGET

OPERATING FUND.....\$241,683,964

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

BE IT FURTHER RESOLVED that the Manager and Chief Engineer, at his discretion, shall have the authority to increase said Operating Fund appropriation

provided that the total consolidated appropriation of Operating Funds within the Operating Budget and Capital Improvement Program Budget remains the same; and

BE IT FURTHER RESOLVED that the sum of THIRTY-FOUR MILLION SIX HUNDRED NINTY-SIX THOUSAND DOLLARS (\$34,696,000) be and the same is hereby appropriated out of all monies placed to the credit of the Operating Fund, the sum of THIRTY-NINE MILLION THREE HUNDRED EIGHTY THOUSAND DOLLARS (\$39,380,000) be and the same is hereby appropriated out of all monies placed to the credit of the State Revolving Fund, the sum of FIFTY MILLION FOUR HUNDRED TEN THOUSAND DOLLARS (\$50,410,000) be and the same is hereby appropriated out of all monies placed to the credit of the Improvement Fund, the sum of FORTY MILLION SEVEN HUNDRED FIFTY THOUSAND DOLLARS (\$40,750,000) be and the same is hereby appropriated out of all monies placed to the credit of the Special Expendable Fund, and the sum of FORTY-SEVEN MILLION FOUR HUNDRED TEN THOUSAND DOLLARS (\$47,410,000) be and the same is hereby appropriated out of all monies placed to the credit of the Extramural Fund, for a total of TWO HUNDRED TWELVE MILLION SIX HUNDRED FORTY-SIX THOUSAND DOLLARS (\$212,646,000) for expenditures of the Board of Water Supply Capital Improvement Program Budget for the fiscal year beginning July 1, 2023 and ending June 30, 2024, as follows:

CAPITAL IMPROVEMENT PROGRAM BUDGET

OPERATING FUND.....	\$ 34,696,000
STATE REVOLVING FUND.....	\$ 39,380,000
IMPROVEMENT FUND.....	\$ 50,410,000
SPECIAL EXPENDABLE FUND.....	\$ 40,750,000

EXTRAMURAL FUND.....	\$ 47,410,000
TOTAL.....	\$ 212,646,000

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 amounts appropriated out of the Operating Fund, Improvement Fund, Special Expendable Fund, and/or 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 may 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

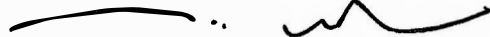
the Manager and Chief Engineer deemed authorized to receive and expend the funds provided as provided by law; and

BE IT FURTHER RESOLVED that the Board of Water Supply acknowledges that these budgets, as appropriated, may result in temporary deviation from the financial policies adopted by Resolution 873, 2017, namely to establish a target requirement to never have less than 60 days of working capital. As the Board of Water Supply contends with inflationary pressures that have outpaced revenue growth, these Budgets reflect the possibility of having less than the minimum 60 days of working capital cash on hand. The Board of Water Supply recognizes that the reserve of working capital was designated for the purpose of addressing economic and revenue downturns and emergency situations, such that the reserve of working capital could be accessed when required to ensure continued operations and capital expenditures; 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
May 22, 2023

ADOPTION OF RESOLUTION NO. 966, 2023, ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET FOR THE FISCAL YEAR 2023-2024 AND APPROPRIATING FUNDS THEREFOR WAS ADOPTED ON MAY 22, 2023			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT			ABSENT
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		
WARREN K. MAMIZUKA	X		

APPROVAL OF MINUTES

Approval of the Minutes of the Public Hearing and Regular Meeting Held on April 24, 2023.

MOTION TO APPROVE

Max Sword and Na'alehu Anthony motioned and seconded, respectively, to approve the Minutes of the Public Hearing and Regular Meeting Held on April 24, 2023.

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

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

**APPROVAL OF
MINUTES**

**Approval of the Minutes of the Budget Workshop Held on May 15,
2023.**

**MOTION
TO APPROVE**

**There was no motion. Chair Andaya deferred the Approval of the Minutes
of the Budget Workshop Held on May 15, 2023, to the next meeting.**

"May 22, 2023

ADOPTION OF
RESOLUTION NO.
965, 2023,
ACCEPTANCE
OF GIFT TO THE
BOARD OF
WATER SUPPLY
FROM
HAWAIIAN EARTH
PRODUCTS,
IN SUPPORT OF
THE 2023
ANNUAL
HALAWA
XERISCAPE
GARDEN OPEN
HOUSE AND
UNTHIRSTY
PLANT SALE

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

Chair and Members:

Subject: Adoption of Resolution No. 965, 2023, Acceptance of Gift to the Board of Water Supply from Hawaiian Earth Products, in Support of the 2023 Annual Halawa Xeriscape Garden Open House and Unthirsty Plant Sale

We recommend the adoption of the attached Resolution No. 965, 2023, that accepts the proposed gift to the Board of Water Supply (BWS), City and County of Honolulu, from Hawaiian Earth Products, in support of our 2023 Annual Halawa Xeriscape Garden Open House and Unthirsty Plant Sale. The donor's total value of this gift is \$1,350.00.

The BWS's Annual Halawa Xeriscape Garden Open House and Unthirsty Plant Sale is a well-established, successful public outreach program. It educates Oahu residents about the importance of outdoor water conservation and sustainable gardens. Studies show that more than 30 percent of residential water use occurs outdoors, so it makes sense for the BWS to promote water-saving methods in this area, which in turn can reduce the customer's combined water and wastewater bill.

This donation from Hawaiian Earth Products allows the BWS to give free compost to Plant Sale visitors and encourage them to incorporate into their own home gardens some of the techniques they learn at the event.

We deeply appreciate the continued support of this Board for this very valuable and worthwhile public outreach program. Plant Sale attendees are encouraged to use the information we provide at the event to become better stewards of our precious water resource.

Respectfully Submitted,

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

Attachment"

DISCUSSION: Kathleen Elliott-Pahinui, Information Officer, Communications Office, gave the report.

Manager Lau expressed his appreciation for the generous donation from Hawaiian Earth Products to the BWS. He stated that it has been three years since the last in-person plant sale.

Chair Andaya asked when is the Xeriscape Plant Sale.

Ms. Kathleen Elliott-Pahinui shared that the Xeriscape Plant Sale is on Saturday, August 5, 2023.

**MOTION
TO APPROVE**

Na'alehu Anthony and Max Sword motioned and seconded, respectively, to approve the Adoption of Resolution No. 965, 2023, Acceptance of Gift to the Board of Water Supply from Hawaiian Earth Products, in Support of the 2023 Annual Halawa Xeriscape Garden Open House and Unthirsty Plant Sale

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

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

Ms. Cruz-Achui announced that the motion passed with five ayes and one abstention.

ADOPTION OF RESOLUTION NO. 965, 2023, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM HAWAIIAN EARTH PRODUCTS, IN SUPPORT OF THE 2023 ANNUAL HALAWA XERISCAPE GARDEN OPEN HOUSE AND UNTHIRSTY PLANT SALE WAS ADOPTED ON MAY 22, 2023			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT			ABSENT
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO			ABSTAIN
EDWIN H. SNIFFEN	X		
WARREN K. MAMIZUKA	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 965, 2023

ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY
FROM HAWAIIAN EARTH PRODUCTS
IN SUPPORT OF THE
2023 ANNUAL HALAWA XERISCAPE GARDEN OPEN HOUSE
AND UNTHIRSTY PLANT SALE

WHEREAS, the Board of Water Supply's (BWS) Annual Halawa Xeriscape Garden Open House and Unthirsty Plant Sale is an annual public outreach activity that educates Oahu water users about incorporating drought-tolerant plants, earth-friendly planting and maintenance techniques, and water conservation methods in their landscapes and gardens to promote efficient outdoor water use; and


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

WHEREAS, Hawaiian Earth Products is offering a gift of 25 cubic yards of Compost, totaling \$1,350.00, for the BWS to distribute to the public at the 2023 Annual Halawa Xeriscape Garden Open House and Unthirsty Plant Sale; and

WHEREAS, the gift to the BWS is beneficial because using compost improves the soil's ability to retain water and reduces irrigation needs of landscapes or gardens that use it, further promoting outdoor water use efficiency; now, therefore

BE IT RESOLVED that the Board of Water Supply hereby accepts the gift valued at \$1,350.00 and directs the Manager and Chief Engineer, or his delegate, to accept and thank the donor for this gift.

ADOPTED:


BRYAN P. ANDAYA
Chair

Honolulu, Hawaii
May 22, 2023

ADOPTION OF RESOLUTION NO. 965, 2023, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM HAWAIIAN EARTH PRODUCTS, IN SUPPORT OF THE 2023 ANNUAL HALAWA XERISCAPE GARDEN OPEN HOUSE AND UNTHIRSTY PLANT SALE WAS ADOPTED ON MAY 22, 2023			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT			ABSENT
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO			ABSTAIN
EDWIN H. SNIFFEN	X		
WARREN K. MAMIZUKA	X		

ITEM FOR INFORMATION NO. 1

“May 22, 2023

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

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

Chair and Members:

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

Joyce Lin, Civil Engineer IV, Office of the Manager and Chief Engineer, will give an Update on Board of Water Supply’s Response to the Potential Impacts of the Red Hill Fuel Contamination.

Respectfully Submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION:

Joyce Lin, Civil Engineer IV, Office of the Manager and Chief Engineer, gave the report.

There was one in-person testifier:

Susan Pcola-Davis	<i>Commented regarding the Defueling Plan Supplement 2 review of May 15, 2023. She also provided a 10-page attachment.</i>
--------------------------	--

Board Member Sword inquired if there are any plans for the Navy to remove the tanks once defueled.

Ms. Joyce Lin replied that removing the tanks would be part of the closure plan, which currently has four options the Navy is deciding on. Option four, which is to remove the steel liner and fill, is the closest to what Board Member Sword described..

Manager Lau mentioned that no details were included when the Defueling Plan Supplement 2 was released to the BWS. Therefore, the BWS has requested copies from the Assistant Secretary of the Navy and has been in touch with Vice Admiral John Wade regarding the enclosures. He also mentioned that he has a meeting with Brigadier General Michelle Link.



MAY 2023 RED HILL UPDATES

May 22, 2023
boardofwatersupply.com

RECENT EVENTS

APRIL 25 –Assistant Secretary Of Navy: Meredith Berger

MAY 2 –University of Hawaii Collaboration Across Sectors

MAY 5 –EPA Groundwater Sampling Mapping Application

- Joint Task Force Released AFFF Investigation Finding and Video

<https://www.pacom.mil/Portals/55/JTF-RH...PDF/AFFF%20Investigation%20Documents.pdf>

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

MAY 9 –State of Hawaii Unified Statement on Red Hill

- U.S. Army Garrison Commander: Colonel Steve McGunagle

MAY 11 –Groundwater Subject Matter Expert Meeting

MAY 12 –Cape Fear Public Utility: Executive Director Kenneth Waldroup, PE, MPA

MAY 17 –Defueling Information Sharing Forum



DEFUELING

Defueling Plan Supplement 2

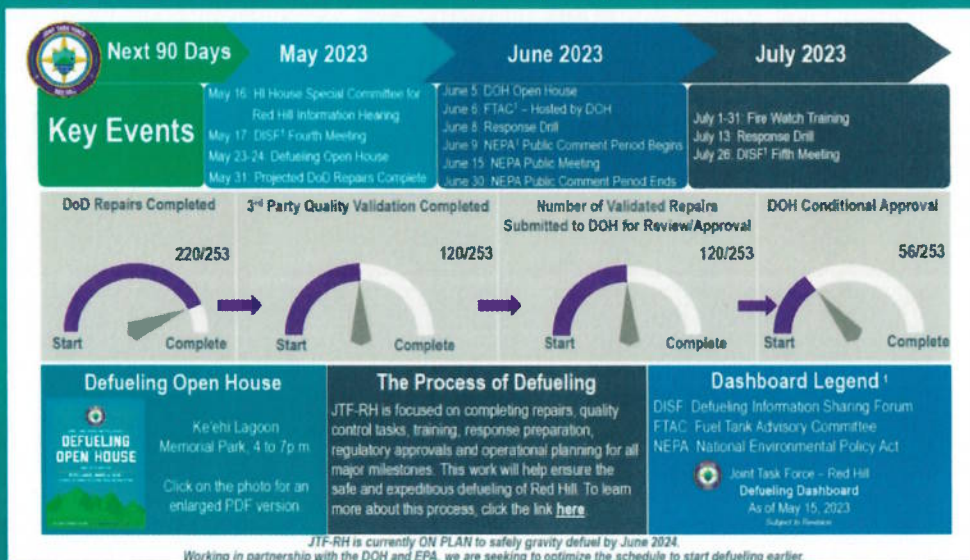
- Defueling Timeline: October 16, 2023 – January 19, 2024

“DoD acknowledges the probability that a substantial amount of fuel (between 100,000 and 400,000 gallons) will remain in RHBFSF at the conclusion of this stage of defueling. DoD will provide additional supplements to comprehensively address all additional actions necessary to ensure removal of all fuel from RHBFSF.” –Joint Task Force-Red Hill, May 16, 2023.



Red Hill Bulk Fuel Storage Facility,
Oahu, Hawaii
Defueling Plan Supplement 2 – May 15, 2023

Department of Defense Red Hill Defueling Plan
Supplement 2 (May 15, 2023) – 1



JTF-RH is currently ON PLAN to safely gravity defuel by June 2024. Working in partnership with the DOH and EPA, we are seeking to optimize the schedule to start defueling earlier.

Dashboard as of May 15, 2023

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



CLOSURE of Red Hill Bulk Fuel Storage Facility

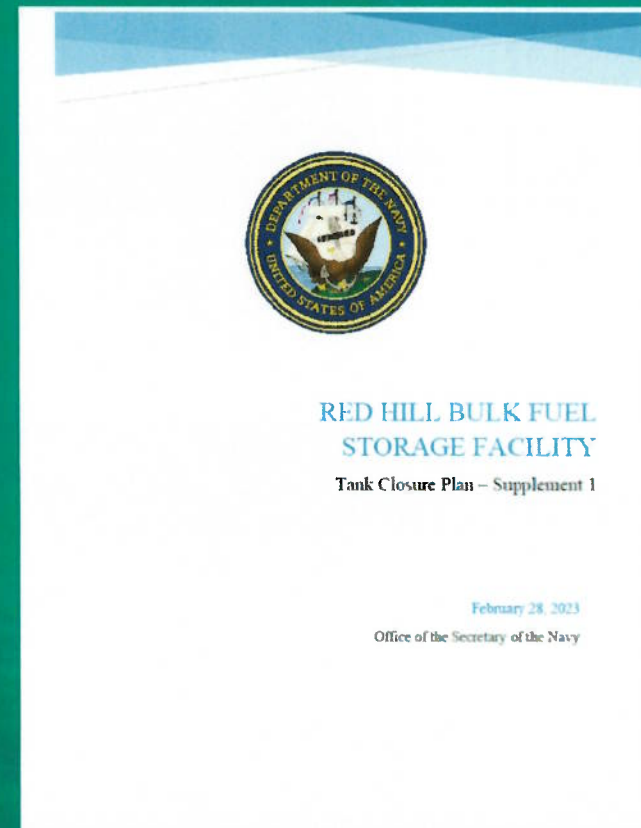
Updates on Closure Plan by end of
May 2023

Nakupuna Companies

Qualitative and Quantitative Survey on
non-fuel reuse of tanks

<https://www.redhillrepurposing.com/>

Tank Closure: August 2027



PFAS UPDATES

Compound	Proposed MCLG	Proposed MCL (enforceable levels)
PFOA	Zero	4.0 parts per trillion (also expressed as ng/L)
PFOS	Zero	4.0 ppt
PFNA	1.0 (unitless)	1.0 (unitless)
PFHxS		
PFBS	Hazard index	Hazard index
HFPO-DA (commonly referred to as GenX Chemicals)		

Hazard Index Calculation:

$$\text{Hazard Index} = \frac{\text{GenXwater}}{10 \text{ ppt}} + \frac{\text{PFBSwater}}{2000 \text{ ppt}} + \frac{\text{PFNAwater}}{10 \text{ ppt}} + \frac{\text{PFHxSwater}}{9.8 \text{ ppt}} = 0.00085 = < 1.0 \text{ and in compliance}$$

EPA Proposed Drinking Water Regulations on PFAS

- Public comment period ends May 30, 2023
- <https://www.regulations.gov/docket/EPA-HQ-OW-2022-0114/document>

Site Investigation at Waiawa Gulch Training Site and Unit Training Equipment Site Finalized

- https://dod.hawaii.gov/env/files/2023/05/Final_SI_Report_Waiawa_UTES.pdf

PFAS Detection at BWS Kaamilo Wells

- Department of Health and the public were notified
- Detection levels were below the EPA's proposed MCLs

Honolulu Board of Water Supply Media Advisory

Contact: Kathleen Elliott-Pelham
Telephone: (808) 548-5119

April 26, 2023

BOARD OF WATER SUPPLY CONFIRMS LOW LEVEL DETECTION OF PFAS AT KAAMILO WELLS PUMPING STATION

The Board of Water Supply (BWS) has confirmed the low-level detection of various perfluoroalkyl substances (PFAS) at its Kaamilo Wells Pumping Station. The type of PFAS chemicals and the levels detected are shown in the table below. The BWS reported the findings to the Hawaii Department of Health (DOH) in accordance with Hawaii State Law.

Location	Analyte	Sample date			EPA Test Method
		3/29/23	4/4/23	4/10/23	
Kaamilo Wells	Perfluorohexanoic acid (PFHxA)	2.1	2.2	2.3	533
	Perfluorooctanoic acid (PFCA)	2.6	2.5	2.8	533
	Perfluorobutanesulfonic acid (PFBS)	ND	ND	ND	533
	Perfluorohexanesulfonic acid (PFHxS)	2.3	2.6	2.6	533
	Perfluorooctanesulfonic acid (PFOS)	2.9	2.9	2.9	533
	Perfluoropentanoic acid (PFPA)	2.2	2.2	2.4	533
	Perfluorodecanoic acid (PFDA)	2.6	2.5	2.6	537.1
	Perfluorooctanoic acid (PFCA)	2.8	2.8	2.7	537.1
	Perfluorobutanesulfonic acid (PFBS)	2.1	ND	2.1	537.1
	Perfluorohexanesulfonic acid (PFHxS)	3.0	1.9	3.1	537.1
	Perfluorooctanesulfonic acid (PFOS)	3.0	2.9	3.0	537.1

Abbreviations:
ND = not detected



PFAS CONTINUES

Solicitation of Professional Services on Environmental Investigation of Emerging Contaminants Impacting Oahu' Aquifer

<https://www.boardofwatersupply.com/procurement/login?returnurl=%2fprocurement%2fprofessional-services%2fprojects%2fproject-category-23-10wr-environmental-investigati>

Deadline for Submittals: May 26, 2023

Review Full Notice Here:

<https://www.boardofwatersupply.com/procurement/professional-services/projects/project-category-23-10wr-environmental-investigati>

NOTICE TO PROVIDERS OF PROFESSIONAL SERVICES BOARD OF WATER SUPPLY CITY AND COUNTY OF HONOLULU

The Board of Water Supply (BWS), City and County of Honolulu, anticipates the multi-year need for professional planning, environmental, engineering, geoscientific and water quality analysis services to assess and monitor the potential impacts of emerging contaminants including but not limited to per- and polyfluorinated alkyl substances (PFAS) releases from military, non-military and other facilities on Oahu's drinking water aquifers.

All qualified professional service providers are invited to respond to this notice by submitting a completed statement of qualifications. Submittals that indicate the vendor is currently providing services in conflict with the services being solicited under this notice may be disqualified.

Interested parties (Providers) shall submit qualifications through the Board of Water Supply Professional Service Consultant Portal (Portal) at <https://pscportal.boardofwatersupply.com>.

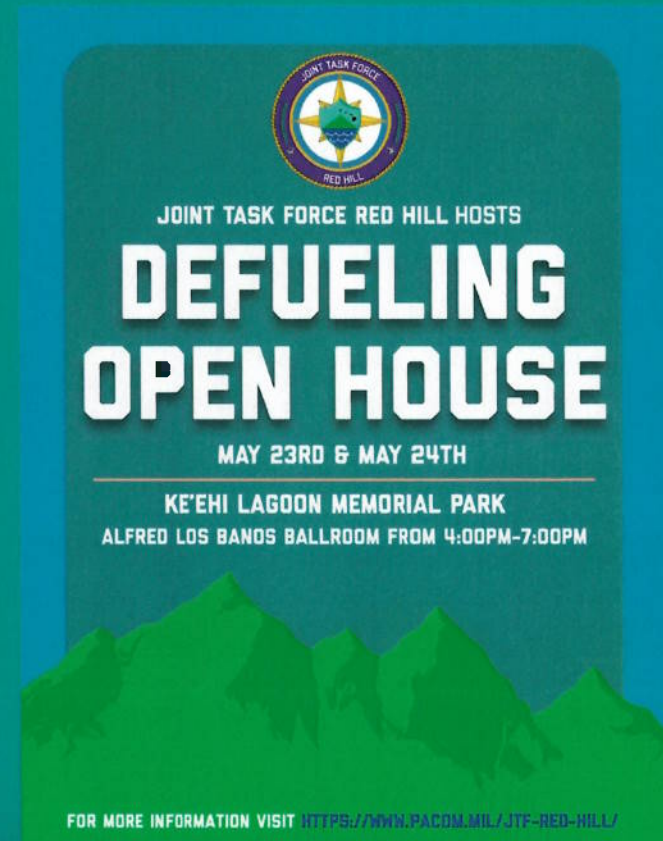
PROJECT CATEGORY 23-10WR ENVIRONMENTAL INVESTIGATION OF EMERGING CONTAMINANTS IMPACTING OAHU'S AQUIFERS AND RELATED TECHNICAL SERVICES.

1. Assess and quantify the impact and threats to underground sources of drinking water from emerging contaminants such as, but not limited to, per- and polyfluorinated alkyl substances (PFAS) releases and presence on Oahu's underground sources of drinking water.
2. Conduct environmental, engineering and hydrology-geology examinations, research, evaluations and examinations, including but not limited to risk analysis and mitigation, contaminant fate and transport in groundwater and environment, toxicological assessments and public health effects of PFAS chemical, compliance with all applicable regulatory requirements; groundwater monitoring and exploratory well siting, design, permitting, construction, sampling, reporting and the development of community outreach programs.
3. Conduct water supply treatment studies including but not limited to small scale bench tests, pilot scale, full scale finished water treatment system design construction plans, specifications and bid documents, conduct performance testing and provide design support during construction, prepare capital and O&M cost evaluations and estimates to design, permit and construct treatment facilities and improvements to the existing water system based on those treatment studies; determine the operating and maintenance frequency and costs; evaluate and develop the proper disposal of treatment process residuals and waste products.
4. Collect and analyze hydrologic data, design and implement soil and groundwater investigations and remedial actions and oversee construction of remediation systems to address affected soil and groundwater, and conduct hydrogeologic characterization and analyses through the performance of site assessments &



UPCOMING EVENTS

- Joint Task Force Open House
 - May 23rd and May 24th , 2023
 - Keehi Lagoon Memorial Park
- Fuel Tank Advisory Committee Meeting (FTAC)
 - Monday, June 5, 2023, Open House at Moanalua HS Cafeteria, 3-7pm
 - Tuesday, June 6, 2023, FTAC Meeting at Moanalua HS
- Meeting with Navy Admirals –June 23, 2023





MAHALO!

MAY 2023 Red Hill Updates

MAY 22, 2023

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

From: contactus=notify2.boardofwatersupply.com@mg.boardofwatersupply.com on behalf of contactus@notify2.boardofwatersupply.com
To: Stella Bernardo: Board of Water Supply Board of Directors
Subject: Board Meeting Testimony Submittal or Request - Monday, May 22, 2023 - Susan Pcola-Davis
Date: Monday, May 22, 2023 10:59:30 AM
Attachments: [Defueling_BWS_FTAC 2.docx](#)

CAUTION: This email originated from outside of the organization. Do not follow guidance, click links, or open attachments unless you recognize the sender and know the content is safe.

BWS TESTIMONY SUBMITTAL / REQUEST TO TESTIFY FORM

Form Submitted on: 5/22/2023 10:57:47 AM

Meeting Date: Monday, May 22, 2023

I wish to provide Written testimony + request to give in-person oral testimony at 630 S. Beretania Street

TESTIFIER INFORMATION

Full Name Susan Pcola-Davis

Email Supcola@hawaii.rr.com

Phone (optional) (808) 387-3061

TESTIMONY DETAILS

Agenda Item Info #1: Update on the BWS Response to the Potential Impacts of the Red Hill Fuel Contamination

Your Position on Matter I wish to comment

Representing Self

I wish to provide Written testimony + request to give in-person oral testimony at 630 S. Beretania Street

**Written
Testimony
(if entered on
the online
form;
otherwise
see attached)**

ACKNOWLEDGEMENTS

**Terms and
Agreement
Check Box**

I UNDERSTAND and ACCEPT that all public meeting transcripts and testimony are public documents. Therefore, any testimony that is submitted orally or in writing, electronically or in person, for use in the meeting process is public information.

www.boardofwatersupply.com/boardmeetings

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**Board of Water Supply
May 22, 2023 Meeting
Susan A. Pcola-Davis
Testimony**

Items for Information

1. Update Red Hill

This is my review of Defueling Plan Supplement 2 of May 15, 2023.

Issue: Additional supplements for a variety of upcoming actions:

- 1. Pg.6: The Defueling Fire Protection Plan was submitted to DOH and EPA for review and concurrence on April 14, 2023 (see Encl. (1)). Encl 1 is blank.**
- 2. Pg. 7: On December 19, 2022, Navy provided EPA and DOH the revised draft SPCC Plan for review and comment. JTF-RH received feedback from EPA and DOH on April 28, 2023 and will provide a response by June 30, 2023.**
- 3. Pg.7: On January 26, 2023, JTF-RH established an Interagency Spill Response Planning Team (ISRPT). The ISRPT has collaboratively identified seven potential defueling spill scenarios and developed corresponding responses for each scenario. These spill scenarios and responses will be incorporated into the final SPCC Plan. JTF-RH expects to submit its proposed final SPCC Plan to EPA and DOH on August 1, 2023. [Spill Prevention Control and Countermeasures (SPCC)]**
- 4. Pgs. 7-11 will explain the 7 potential defueling fuel spill scenarios.**
- 5. Pg. 15: Phase 4 Update-Final Preparations for Defueling. October 16, 2023.**
- 6. Pg. 16: Repacking Lines. The repacking operation order (OPORD) brief to regulators occurred on April 28, 2023. JTF-RH will commence repacking in August or September 2023.**
- 7. Pg. 17: Safety Measures for Repacking. JTF-RH conducted a Process Hazard Analysis (PHA) in February 2023, to identify, rank, and establish mitigations for risks associated with repacking operations. JTF-RH identified 13 recommendations to mitigate risk (1 critical, 1 serious, 7 moderate, 1 minor, 1 negligible, and 2 administrative) for repacking**

operations and incorporated them while developing the repacking CONOP. [13 recommendation not identified].

8. Pg. 17: Phase 5 Update-Defuel and Relocate Fuel. Phase 5 constitutes the physical defueling of RHBFSF (20 underground fuel storage tanks, 4 surge tanks, and associated pipelines). DoD acknowledges the probability that a substantial amount of fuel (between 100,000 and 400,000 gallons) will remain in RHBFSF at the conclusion of this stage of defueling. DoD will provide DOH and EPA with additional supplements as needed to comprehensively address all additional actions necessary to ensure removal of all fuel from RHBFSF.
9. Pg. 20: Safety Measures for Tank Mains Defueling. JTF-RH's February 2023 PHA yielded 23 recommendations (2 critical, 13 serious, 1 moderate, 1 negligible, and 6 administrative) for tank main defueling operations and each were incorporated in the development of the tank main defueling CONOP. [23 recommendations not identified].
10. Pg. 20: Flowable Tank Bottoms. The flowable tank bottoms defueling CONOP and OPORD briefs to regulators are planned to be conducted in conjunction with the tank mains defueling brief the week of May 18, 2023, and June 8, 2023, respectively. The flowable tank bottoms defueling will take place upon completion of the tank mains defueling.
11. Pg. 22: Safety Measures for Flowable Tank Bottoms Defueling. The PHA generated four recommendations (2 serious, 1 minor, and 1 administrative) for flowable tank bottoms defueling operations, and JTF-RH incorporated each recommendation in the development of the CONOP. [4 recommendations not identified].
12. Pg. 22: Unpacking Lines. JTF-RH will brief the Unpacking CONOP to DOH and EPA during the week of July 6, 2023, and will brief the OPORD during the week of July 27, 2023.
13. Pg. 23: Safety Measures for Unpacking Lines. The PHA generated one administrative recommendation for unpacking lines. The PHA generated one administrative recommendation for unpacking lines. [1 recommendation not identified].

Things to be aware of AKA what's missing in this supplement.

To avoid any confusion or ambiguity and in the spirit of transparency, DoD acknowledges the probability that a substantial amount of fuel between 100,000 and 400,000 gallons) will remain in RHBFSF at the conclusion of this stage of defueling. DoD will provide DOH and EPA with additional supplements as needed to comprehensively address all additional actions necessary to ensure removal of all fuel from RHBFSF.

- a. 95% of the fuel will be removed leaving between 100,000-400,000 remaining. This is a significant range.**

Updates

This Supplement provides key updates on plans and timelines for JTF-RH's remaining work to prepare the RHBFSF for safe defueling and to defuel and relocate the vast majority of fuel in the facility, thus bringing DoD closer to the requirement to set the conditions for facility closure by the Navy.

- It provides Phase 3 updates for fire and spill response and infrastructure repairs and enhancements.**
- It will also preview the forthcoming Environmental Assessment (EA) and Overseas Environmental Assessment (OEA) for the decision-making on distribution of the fuel, after JTF-RH has removed it from the facility.**
- Supplement 2 Phase 4 updates include a listing of all required approvals from DOH and EPA before JTF-RH can commence defueling operations and outlines the repacking of fuel lines concept of operations (CONOP), which is a required preparatory step to defuel.**
- Finally, Supplement 2 Phase 5 updates include:**
 - Updated plans for gravity-based removal,**
 - Fuel oil recovery (FOR) draining, and removal of all fuel in the four surge tanks,**
 - The analysis on pace for gravity-based defueling,**
 - Defueling CONOPs (Concept of Operations), and**
 - A list of upcoming JTF-RH deliverables to DOH and EPA.**

JTF-RH projects that, subject to any unforeseen circumstances, it will begin gravity defueling by October 2023 and complete the Supplement 2 defueling—removal of fuel from UST tank mains and flowable tank bottoms, unpacking lines, and removal of fuel from surge tanks—by January 19, 2024.

Milestone:

Completion of 214 Of 253 SGH recommended repairs and projects completing them all by May 31, 2023 (39 remaining).

- 9 days away

Fire and Spill Response Update:

a. Fire Suppression Update

The AFFF fire suppression system: remains inactive. JTF-RH and Federal Fire Department (FedFire), have implemented appropriate fire risk mitigations while repairs, enhancements and modifications for defueling are in progress.

Plan: Appropriately balances

- fire suppression,
- personnel safety, and
- environmental concerns.

This plan uses:

- dry chemical (sodium bicarbonate) fire extinguishers,
- the existing water sprinkler system and
- Federal Fire to respond to a fire event in the vicinity of the USTs.

The Defueling Fire Protection Plan was submitted to DOH and EPA for review and concurrence on April 14, 2023 (see Encl. (1)).

b. Spill Response:

DoD facilitated a Spill Prevention Control and Countermeasures (SPCC) inspection and briefed the results on March 4, 2022. The DOH/EPA inspection raised issues and concerns that were addressed as follows:

- On July 6, 2022, an update was requested for the SPCC Plan to address all EPA/DOH comments.
- On September 8, 2022, Navy provided the draft SPCC Plan to DOH and EPA.
- On December 19, 2022, Navy provided EPA and DOH the revised draft SPCC Plan for review and comment.
 - The revision addressed the piping in the Underground Pump House (UGPH) for JP-5, F-24, and F-76 that hold over 1 million gallons of fuel during fueling operations and are considered to be underground storage.
- On April 28, 2023, JTF-RH received feedback from EPA and DOH and will provide a response by June 30, 2023.

Interagency Spill Response Planning Team (ISRPT):

On January 26, 2023, JTF-RH established an Interagency Spill Response Planning Team (ISRPT),

- Has identified seven potential defueling spill scenarios and developed corresponding responses for each scenario.
 - (i) Release in Tank Gallery; **Most Likely**
 - (ii) Release in Lower Access Tunnel (LAT) (Packing); **Most likely**
 - (iii) Hotel Pier Pipe Rupture;
 - (iv) Hotel Pier Overfill of Tanker;
 - (v) **Most Dangerous Release (Defuel)**;
 - (vi) Dewatering; and
 - (vii) Fire Response.
- These spill scenarios and responses will be incorporated into the final SPCC Plan.
- JTF-RH expects to submit its proposed final SPCC Plan to EPA and DOH on August 1, 2023.

i. **Most Likely Release in the Tank Gallery – Defueling:**

- (1) a pipe rupture;**
- (2) a failed repair; or**
- (3) failure of a valve in the tank gallery along a length of pipe downstream of tank skin-valves (double-block and bleed valves).**

Based on this assessment, JTF-RH has developed a plan to utilize the AFFF retention pumps to recover up to 20K gallons of released fuel within approximately seven minutes (rated at 1,000 gallons per minute using a maximum of three pumps active at one time - for a total of 3,000 gallons per minute pumping capacity).

This solution comports with DOH’s January 13, 2023, recommendation to evaluate the AFFF retention line pumps for rapid removal of fuel. Likewise, if a release were to occur during defueling the tank bottoms, the AFFF retention pumps would be the most advantageous means of removing the released fuel.

May 31, 2023, JTF-RH projects that AFFF retention line repairs will be complete.

ii. **Most Likely Release in LAT Piping – Re-Packing/Un-Packing:**

JTF-RH assessed that, if a release were to occur in the LAT Piping during Repacking or unpacking, it likely would result from one or more of the following events:

- (1) a pipe rupture;**
- (2) a failed repair; or**
- (3) failure of a valve.**

If a rupture were to occur in the LAT, the fuel would be directed away from Adit 3 “Wye” (protecting direct pathways to the aquifer) and down the HT by the pre-positioned rigid flood barriers, which is the mitigation measure utilized to prevent the fuel from flowing to the HT.

In this scenario, the released fuel would collect at the UGPH and pump out to surge tank B-2, which has a 385K gallon capacity.

iii. **Most Likely Release Harbor Tunnel (HT) Piping – Re-Packing/Un-Packing:**

JTF assessed that, if a release were to occur in the Harbor Tunnel, during repacking or unpacking, it likely would result from one or more of the following events occurring:

- (1) a pipe rupture;
- (2) a failed repair; or
- (3) failure of a valve.

If a rupture were to occur in the LAT, the fuel would be directed away from Adit 3 “Wye” (protecting direct pathways to the aquifer) and down the HT by the pre-positioned rigid flood barriers, which is the mitigation measure utilized to prevent the fuel from flowing to the HT.

In this scenario, the released fuel will collect at the UGPH and pump out to surge tank B-2, which has a 385K gallon capacity.

iv. **Tanker Overfill**

In this scenario, a potential release could occur during tanker fill when the product is reaching tank capacity on the receiving tanker.

A tank overfill could spill fuel onto the deck and into the water surrounding the vessel. Based on data provided by the Maersk Peary, the probability of overfilling a tanker is 0.4%. *(Historical data identified overflow amounts as less than 264 gallons.)*

v. **Most Dangerous Release – Defueling**

In this scenario, a possible release could occur if a fuel hammer, or vacuum condition, causes a fracture to a section of piping just north of a double blocking blow valve.

The released fuel would flow from the tank gallery into the LAT. JTF-RH estimates that after approximately 18 minutes, the released fuel would reach the Adit 3 "Wye," where the pre-installed rigid flood barriers would redirect the fuel from north of the aquifer to the HT.

JTF-RH further estimates that, in this worst-case scenario, 4.3 M gallons of fuel would be discharged over 30 hours.

[DISCHARGED WHERE?]

This scenario would be an escalating situation - which is initially handled via the response for the Most Likely Release in the tank gallery - utilizing the AFFF retention sump pumps.

The escalation occurs when the spill ultimately exceeds the capacity of the AFFF retention sump pumps and begins to flow down the LAT all the way to the HT reaching the UGPH.

The modeled flow rate would be approximately 13,800 gallons/minute (gpm), which would overwhelm the pumps and exceed B-2's surge tank capacity of 385K gallons.

To prepare for this worst-case scenario, JTF-RH has developed a plan to leverage its oil spill response organizations to augment the UGPH pumps.

The response plan will utilize supplemental pumps (4 x 2,200 gpm = 8,800gpm) installed by SUPSALV (NAVSEA contract) on 1 July 2023 prior to the Defueling Exercise scheduled for 13 July 2023 to move fuel to tankers at Hotel Pier.

Additionally, the sides of the ramp will be lined with sandbags or other barricades that direct any oil that exits Adit 1 into the lower yard tunnel.

This fuel will be recovered by the SUPSALV pumps. This response action will minimize environmental impacts in the event of a spill.

Vi. Fire Suppression

In order for a fire to occur there must be a fuel release and an ignition source.

NAVFAC Fire Engineer analysis estimated the probability of fuel release coupled with an ignition event that would result in a fire is 1 in 856 million (see Encl. (1)). JTF-RH has implemented the following mitigation measures to reduce the potential for a fire:

- **joint wrapping,**
- **eliminating**
- **combustible materials,**
- **procurement of dry chemical extinguishers,**
- **installation of tank**
- **equalization lines,**
- **pipe repairs,**
- **fire watch, and**
- **updated operations plans.**

JTF-RH in coordination with NAVFAC Fire Engineers and the FedFire conducted fire suppression course of action analysis for alternatives to the disabled AFFF system.

JTF-RH determined the chosen course of action in an effort to reduce risk to both the environment and personnel:

Consists of a layered approach using

- **a manned fire watch in conjunction with**
- **the existing fire water sprinklers and**
- **Fed Fire emergency response.**

The plan requires eight fire watch teams, each consisting of two trained and qualified personnel who will be positioned between two 150lb dry chemical fire extinguishers.

Table 2- JTF-RH Spill Response Exercises

JTF-RH Spill Response Exercises		
SCENARIO	RESPONSE EXERCISE	DATE
1. Most Likely Release in the Tank Gallery	Defueling Spill Drill Exercise	July 13, 2023
2-3. Most Likely Release in LAT or HT Piping	Repacking Spill Drill Exercise	June 8, 2023
4. Tanker Overfill	JTF-RH Spill Exercise	August 2023
5. Most Dangerous Release – Defueling	Defueling Spill Drill Exercise	July 13, 2023
6. Dewatering	TTX & Conditions Walk through	April 12 & 14, 2023
7. Fire Suppression	FED Fire Exercise	TBD

The locations provide complete coverage throughout the entire tank gallery.

MISSING:

(vi) Dewatering; and (vii) Fire Response.

ITEM FOR INFORMATION NO. 2

“May 22, 2023

CAPITAL
IMPROVEMENT
PROGRAM
QUARTERLY
UPDATE

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

Chair and Members:

Subject: Capital Improvement Program Quarterly Update

Jadine Urasaki, Acting Program Administrator, Capital Projects Division,
will provide an update on the Capital Improvement Program.

Respectfully Submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION:

Jadine Urasaki, Acting Program Administrator, Capital Projects Division,
gave the report.

Chair Andaya referred back to Fiscal Year 2022 and stated that the BWS
executed 65% of its projects. He asked Ms. Urasaki to refresh the Board
on the remaining 35% of the projects.

Ms. Urasaki responded that the Fiscal Year 2022 pipeline projects were
deferred to Fiscal Year 2023. She explained that most deferred pipeline
projects are included in the Fiscal Year 2023 third-quarter report.

Chair Andaya inquired if Fiscal Year 2023 and Fiscal Year 2022 projects
are all completed; the BWS would have over 100% project executions.

Ms. Urasaki replied that since a pipeline project was canceled and
deferred to a future fiscal year, the BWS would not exceed 100%
execution.

Board Member Kaneshiro asked why some projects have such a
significant gap in the budget and the awarded amount.

Ms. Urasaki responded the dynamics of the post-pandemic era affected
the material costs and supply shortages.

Board Member Anthony inquired about how the BWS would be affected if
the cost of supplies continued to rise.

Ms. Urasaki replied that the contractor would be responsible for securing and covering the materials' cost.

Manager Lau also added that the contractors can order specialty/long lead materials in advance; however, they would be responsible for storing and maintaining the material's quality.

Quarterly Capital Improvement Program Status Report
All Divisions
as of March 31, 2023

Quarter Awarded	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Awarded to Date	Total Budgeted
Design Contracts Awarded (#/\$)	0	\$0.00	1	\$300,000.00	0	\$0.00	0	\$0.00	\$300,000.00	\$23,554,000.00
Construction Contracts Awarded (#/\$)	2	937,349.00	2	295,912.00	6	37,159,249.00	0	0.00	38,392,510.00	120,845,500.00
Land Purchases (#/\$)	0	0.00	0	0.00	0	0.00	0	0.00	0.00	100,000.00
Project Totals	2	\$937,349.00	3	\$595,912.00	6	\$37,159,249.00	0	\$0.00	\$38,692,510.00	\$144,499,500.00

Quarter Completed	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Totals
Design Contracts Completed (#/\$)	0	\$0.00	6	\$1,148,091.61	0	\$0.00	0	\$0.00	\$1,148,091.61
Construction Contracts Completed (#/\$)	1	1,467,700.00	7	3,162,978.29	0	0.00	0	0.00	4,630,678.29
Totals	1	\$1,467,700.00	13	\$4,311,069.90	0	\$0.00	0	\$0.00	\$5,778,769.90

Ongoing Projects	
Ongoing Design Projects (#)	242
Ongoing Design Projects (\$)	\$106,457,305.50
Ongoing Construction Projects (#)	155
Ongoing Construction Projects (\$)	\$386,165,806.40



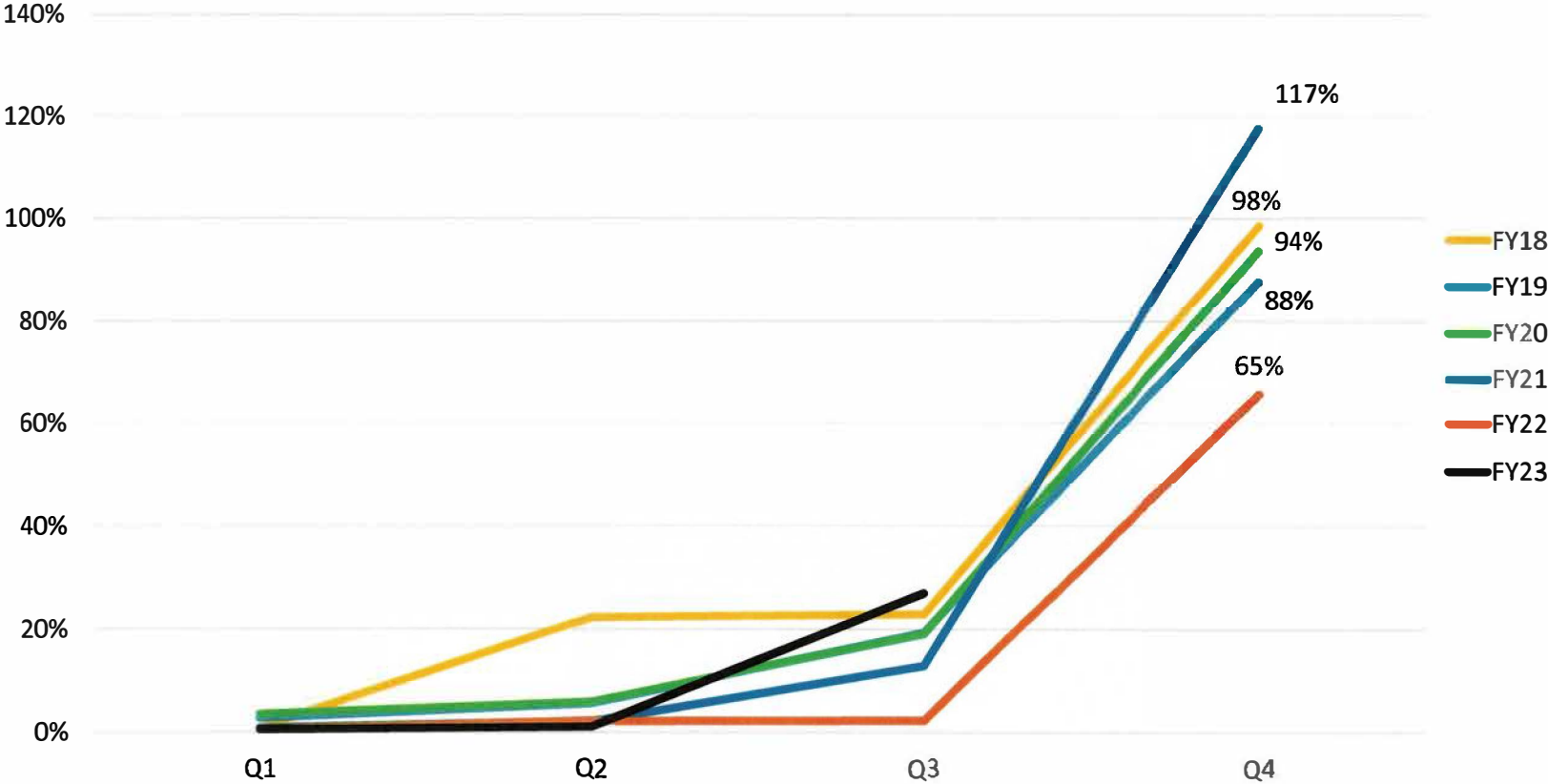
Quarterly Capital Improvement Program Status Report
All Divisions

DESIGN AND CONSTRUCTION PROJECTS AWARDED - THIRD QUARTER FY 2023

Item #	Project Title	Expend Type	Budget Amount	Awarded
23-002A	Aiea 497' Exploratory Wells	CONST		3,296,252.00
22-010J	Punaluu Wells III Pump 1 Brush and Bail	CONST	16,300.00	16,300.00
23-018A	Kalama Valley WSI Part II	CONST	11,200,000.00	11,714,674.00
23-019A	Palolo WSI Part III	CONST	10,500,000.00	17,005,695.00
23-020A	Puiwa Road 12-Inch and Dowsett Avenue 8-Inch Main	CONST	2,000,000.00	4,217,371.00
23-021A	Waiomao Homestead Road 8-Inch Main	CONST	1,300,000.00	908,957.00
	3rd Quarter totals		\$25,016,300.00	\$37,159,249.00



Cummulative % Budget execution by quarter



ITEM FOR INFORMATION NO. 3

"May 22, 2023

STATUS
UPDATE OF
GROUNDWATER
LEVELS AT
ALL INDEX
STATIONS

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

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

Four aquifer index stations were in low groundwater condition for the production month of April 2023. Kaimuki, Pearl City, and Punaluu are in Caution Status. Waialua is in Alert Status. The monthly production average for April 2023 was 125.05 million gallons per day.

The Board of Water Supply rainfall index for the month of April 2023 was 150 percent of normal, with a 5-month moving average of 111 percent. As of May 2, 2023, the Hawaii Drought Monitor shows zero drought conditions across Oahu. The National Weather Service is forecasting below-normal precipitation between July and November 2023.

Most monitoring wells exhibited relatively stable head levels for the month of April 2023, likely reflecting the lower overall groundwater production and recent increased rainfall. Average monthly production for April 2023 was lower than in April 2022 and lower than the 5-year monthly average.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

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

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

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.00
WAILUPE	0.08
AINA KOA	0.00
AINA KOA II	0.33
MANOA II	0.92
PALOLO	1.05
KAIMUKI HIGH	1.84
KAIMUKI LOW	1.17
WILDER	8.93
BERETANIA HIGH	2.37
BERETANIA LOW	1.37
KALIHI HIGH	0.00
KALIHI LOW	5.00
KAPALAMA	1.36
KALIHI SHAFT	7.87
MOANALUA	0.74
HALAWA SHAFT	0.00
KAAMILO	0.57
KALAUAO	9.06
PUNANANI	12.18
KAAHUMANU	0.28
HECO WAIU	0.00
MANANA	0.28
WAIALAE IKI	0.19
WELLS SUBTOTAL:	55.61
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTTL:	0.17
HONOLULU SUBTTL:	55.78

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.13
WAIMANALO III	0.00
KUOU I	0.09
KUOU II	0.56
KUOU III	0.62
LULUKU	0.84
HAIKU	0.35
IOLEKAA	0.00
KAHALUU	0.69
KAHANA	0.98
PUNALUU I	0.00
PUNALUU II	1.92
PUNALUU III	0.00
KALUANUI	1.87
MAAKUA	0.25
HAUULA	0.26
WELLS SUBTOTAL:	8.55
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.66
WAIHEE TUNNEL	3.83
LULUKU TUNNEL	0.15
HAIKU TUNNEL	0.36
KAHALUU TUNNEL	1.59
GRAVITY SUBTOTAL:	6.77
WIND. SUBTOTAL:	15.32

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.34
OPANA	0.96
WAIALEE I	0.16
WAIALEE II	0.05
HALEIWA	0.00
WAIALUA	1.62
N.SHORE SUBTOTAL:	3.12

MILILANI (4)	
MILILANI I	1.24
MILILANI II	0.00
MILILANI III	0.60
MILILANI IV	1.85
MILILANI SUBTOTAL:	3.70

WAHIAWA (5)	
WAHIAWA	1.14
WAHIAWA II	1.46
WAHIAWA SUBTOTAL:	2.60

PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	0.00
AIEA GULCH 550	0.23
KAONOHI I	1.65
WAIMALU I	0.00
NEWTOWN	1.63
WAIU	1.64
PEARL CITY I	0.83
PEARL CITY II	0.99
PEARL CITY III	0.24
PEARL CITY SHAFT	0.91
PEARL CITY-HALAWA SUBTOTAL:	8.11

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	1.27
WAIPIO HTS. I	0.00
WAIPIO HTS. II	0.19
WAIPIO HTS. III	1.32
WAIPAHU	6.72
WAIPAHU II	1.91
WAIPAHU III	4.08
WAIPAHU IV	2.90
KUNIA I	2.53
KUNIA II	1.68
KUNIA III	0.00
HOAEAE	6.98
HONOULIULI I	0.00
HONOULIULI II	2.93
MAKAKILO	0.09
WAIPAHU-EWA SUBTOTAL:	32.61

WAIANAE (8)	
MAKAHA I	0.66
MAKAHA II	0.00
MAKAHA III	0.11
MAKAHA V	0.05
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.03
WAIANAE I	0.29
WAIANAE II	0.00
WAIANAE III	0.99
WELLS SUBTOTAL:	2.12
WAI. C&C TUNNEL	1.40
WAI. PLANT. TUNNELS	0.29
GRAVITY SUBTOTAL:	1.69
WAIANAE SUBTOTAL:	3.81

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.54
BARBERS POINT WELL	1.16
GLOVER TUNNEL NP	0.29
NONPOTABLE TOTAL:	1.99

RECYCLED WATER (MARCH 2023)

RECYCLED WATER	MGD
HONOULIULI WRF R-1	5.06
HONOULIULI WRF RO	1.39
RECYCLED TOTAL:	6.45

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

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	116.42
GRAVITY	8.64
POTABLE TOTAL:	125.05
NONPOTABLE	1.99
RECYCLED WATER	6.45
TOTAL WATER:	133.50

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE/ BWS YLDS	APR 2022	DIFF. A-B
1	HONOLULU	83.32	55.61	27.71
2	WINDWARD	25.02	15.32	9.70
3	NORTH SHORE	4.70	3.12	1.57
4	MILILANI	7.53	3.70	3.83
5	WAHIAWA	4.27	2.60	1.67
6	PEARL CITY-HALAWA	12.25	8.11	4.14
7	WAIPAHU-EWA	50.63	32.61	18.02
8	WAIANAE	4.34	3.81	0.53
TOTAL:		192.06	124.88	67.17

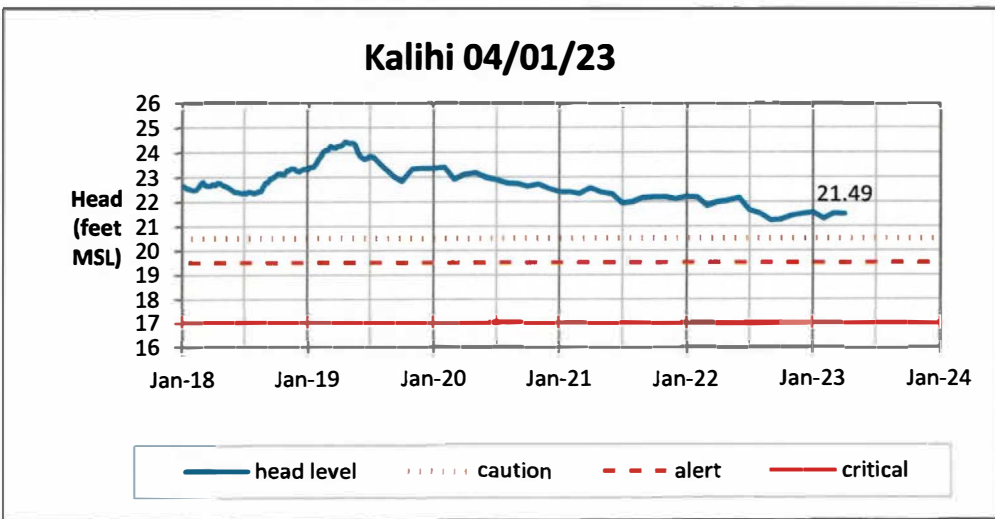
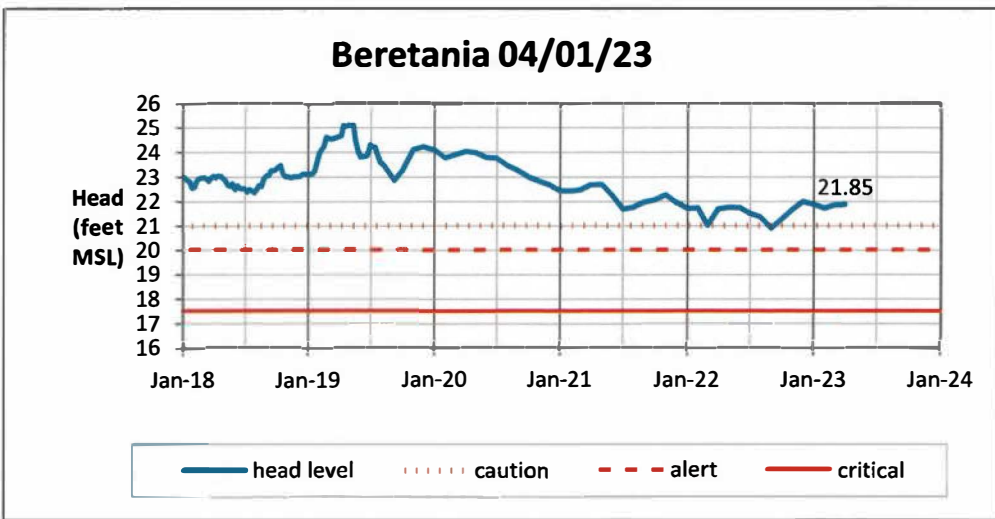
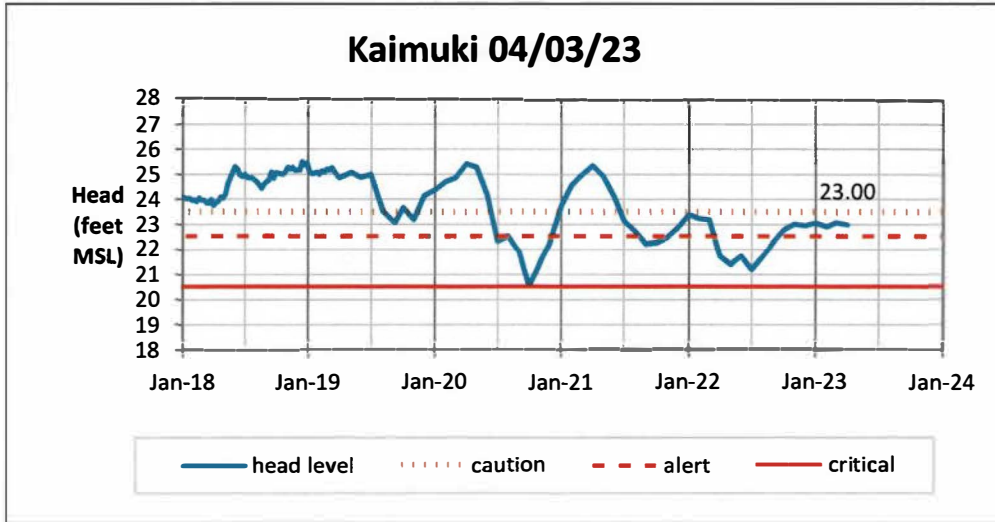
CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE	APR 2022	DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.16	-0.16
TOTAL:		1.00	1.16	-0.16

EFFECTIVE WATER DEMAND PER DISTRICT

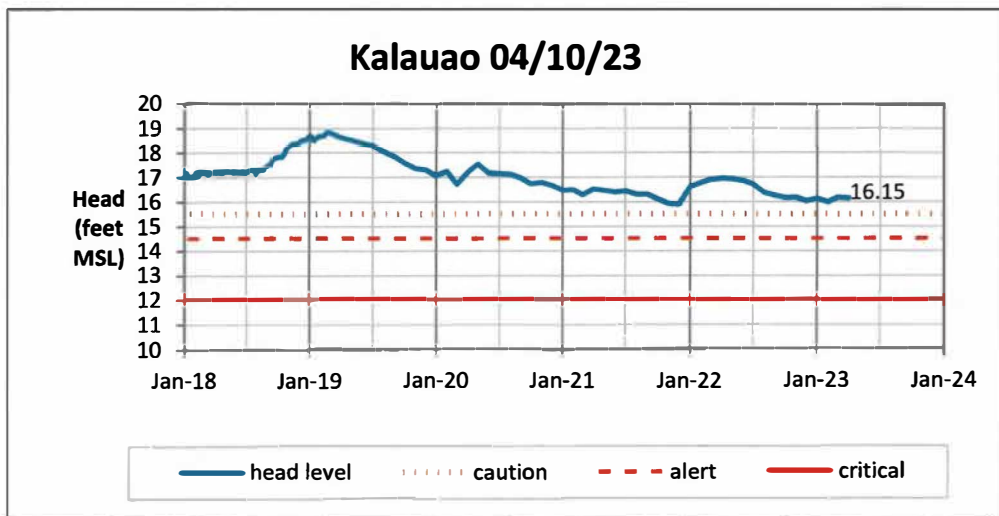
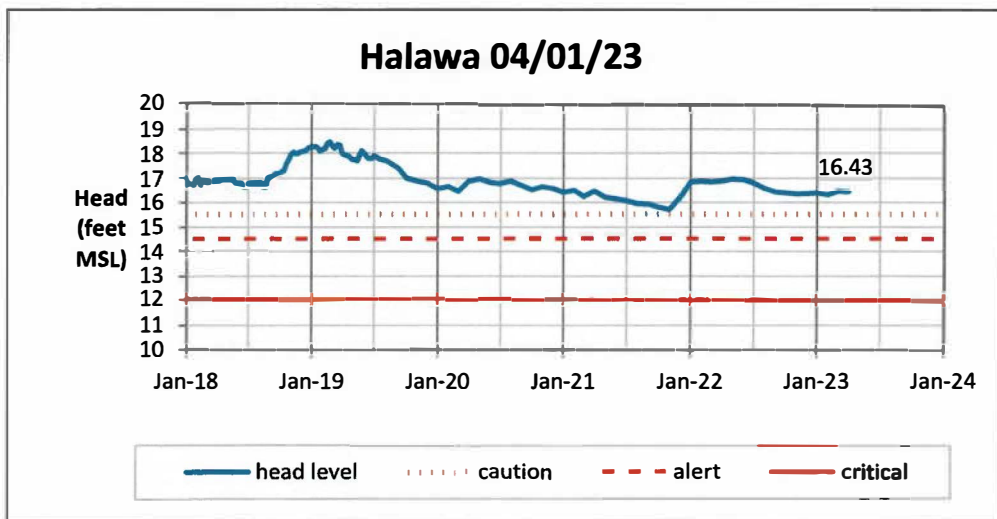
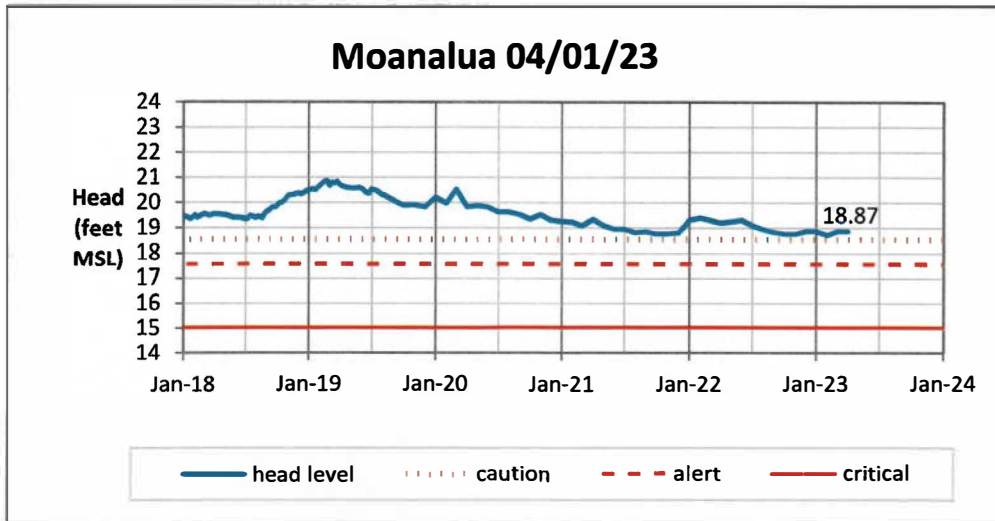
IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.02
7	8	BARBERS PT LB	4.97

WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	55.78	0.02	-	55.80
2	WINDWARD	15.32	-	0.02	15.30
3	NORTH SHORE	3.12	-	-	3.12
4	MILILANI	3.70	-	-	3.70
5	WAHIAWA	2.60	-	-	2.60
6	PEARL CITY-HALAWA	8.11	-	-	8.11
7	WAIPAHU-EWA	32.61	-	4.97	27.63
8	WAIANAE	3.81	4.97	-	8.79
TOTAL:		125.05	4.99	4.99	125.05

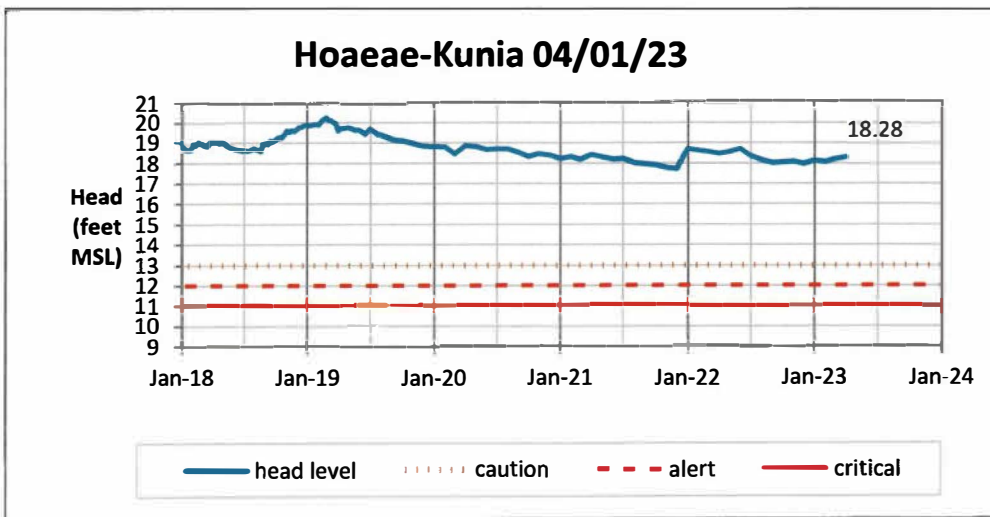
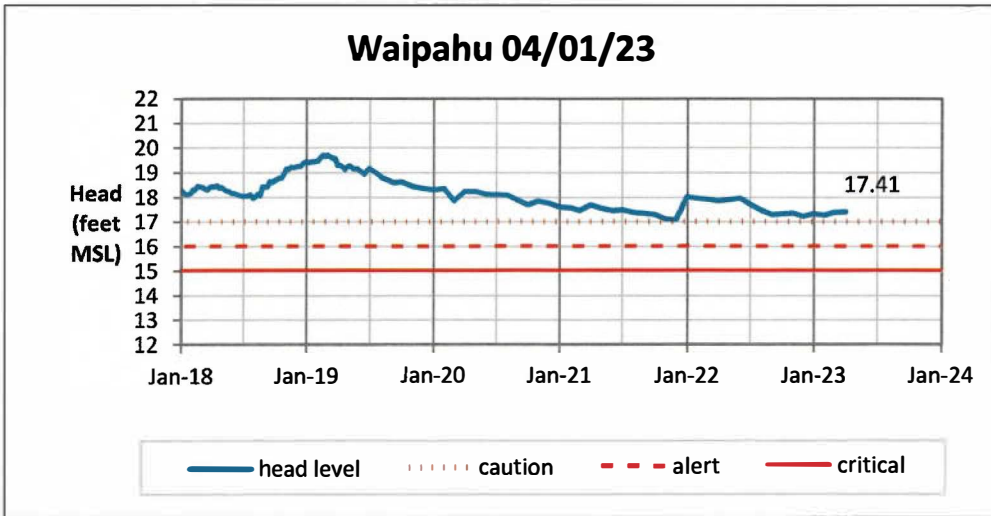
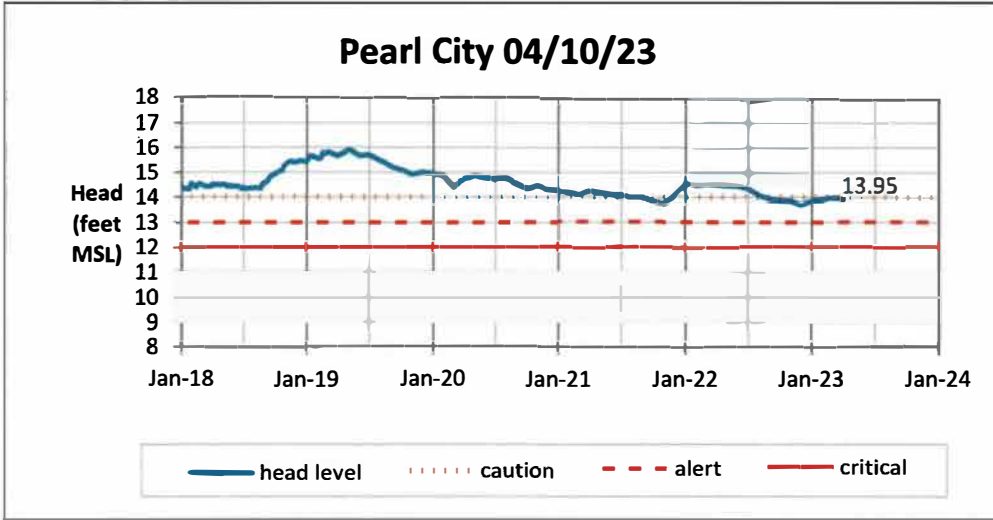
Head Report



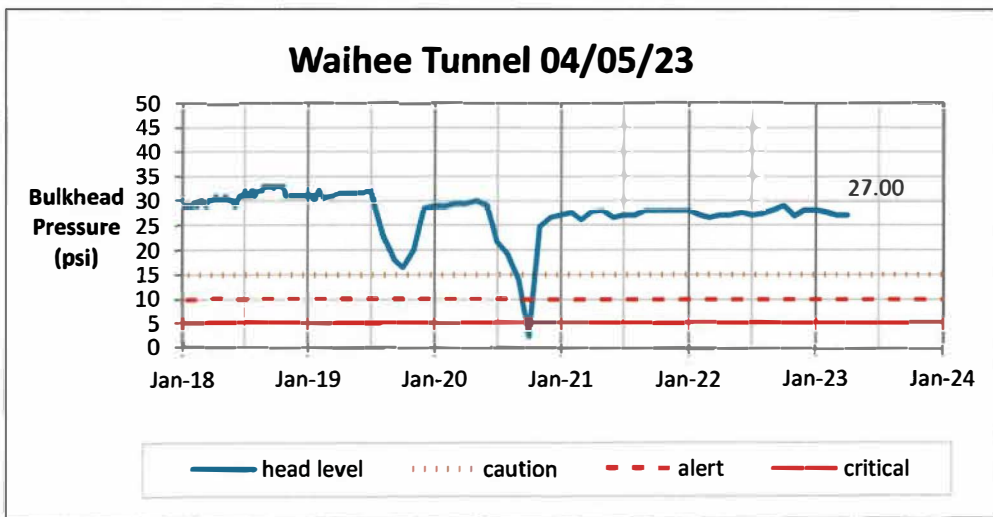
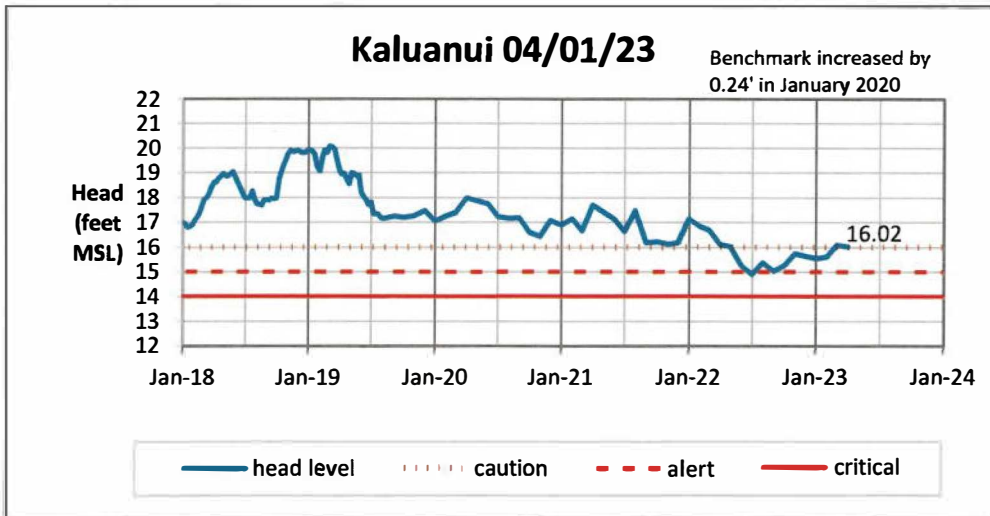
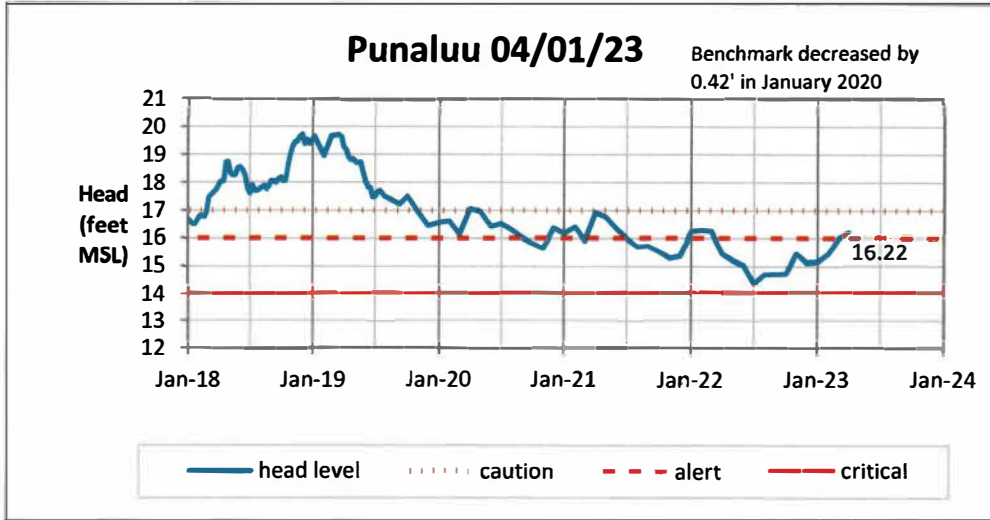
Head Report



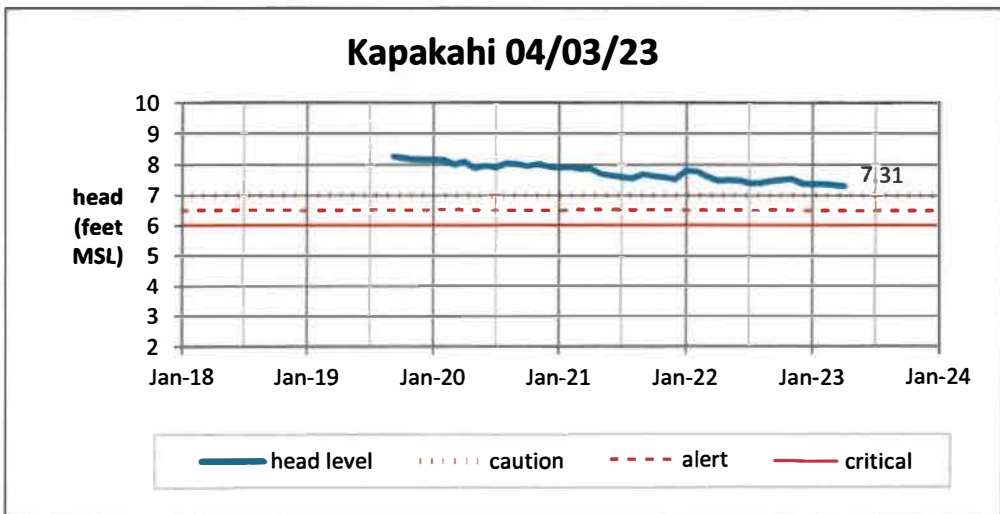
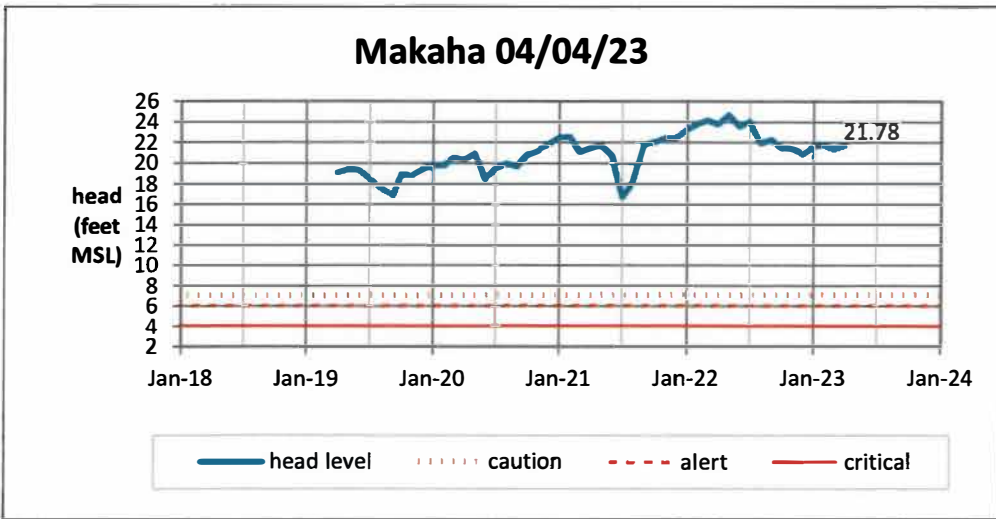
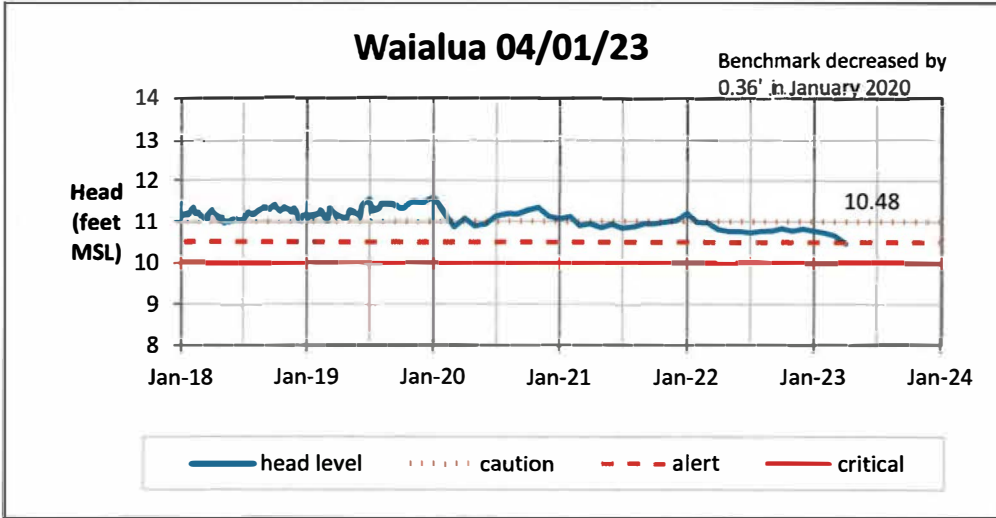
Head Report

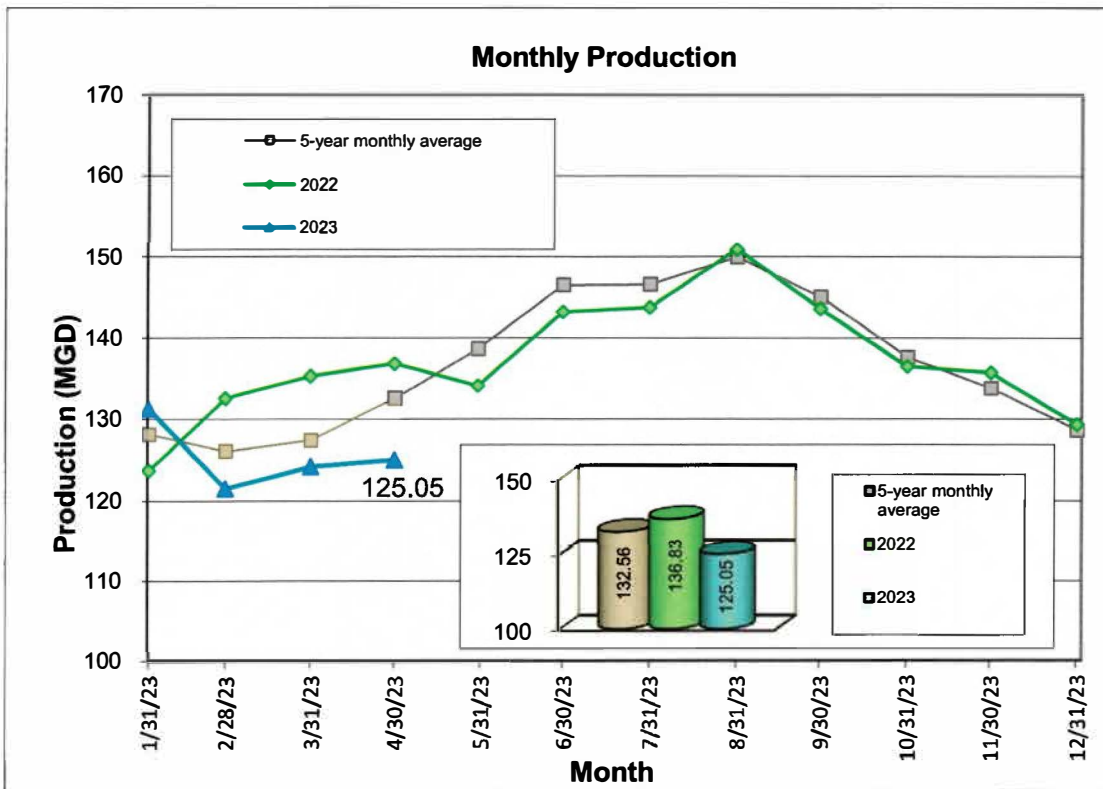
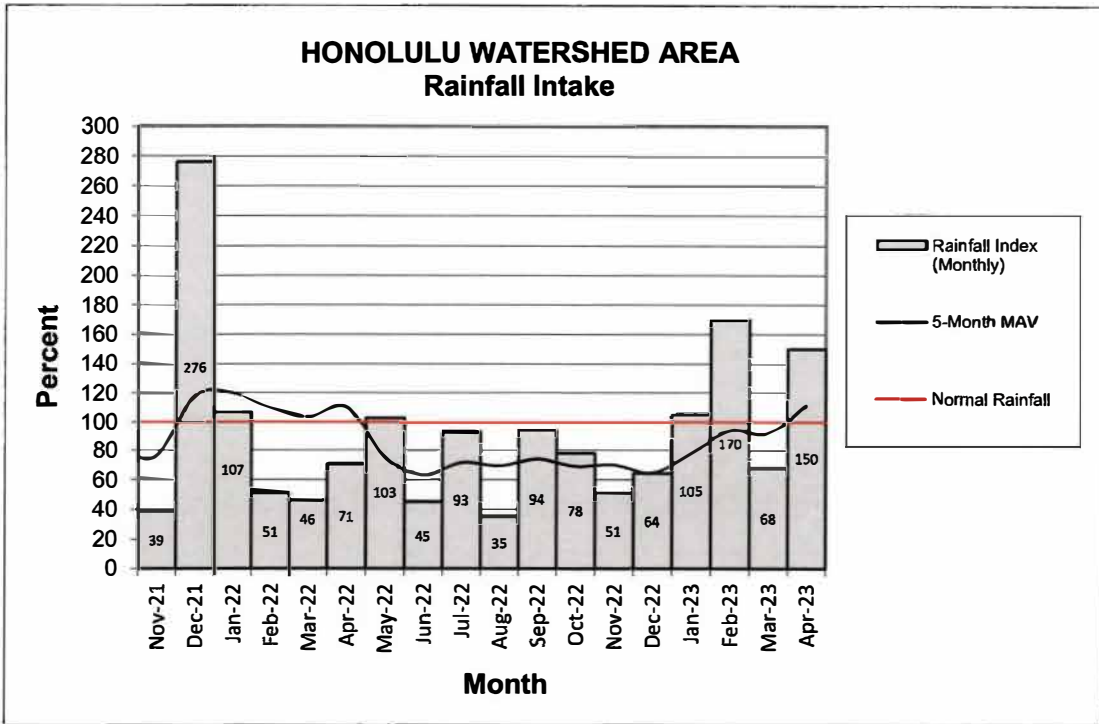


Head Report



Head Report





ITEM FOR INFORMATION NO. 4

"May 22, 2023

WATER MAIN
REPAIR
REPORT FOR
APRIL 2023

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

Chair and Members:

Subject: Water Main Repair Report for April 2023

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

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

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

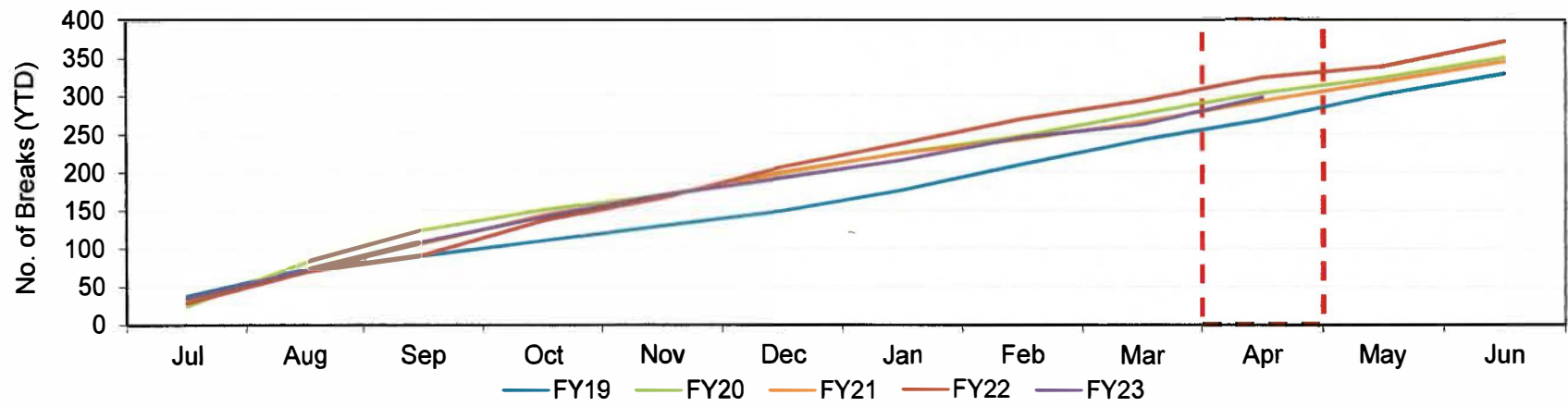
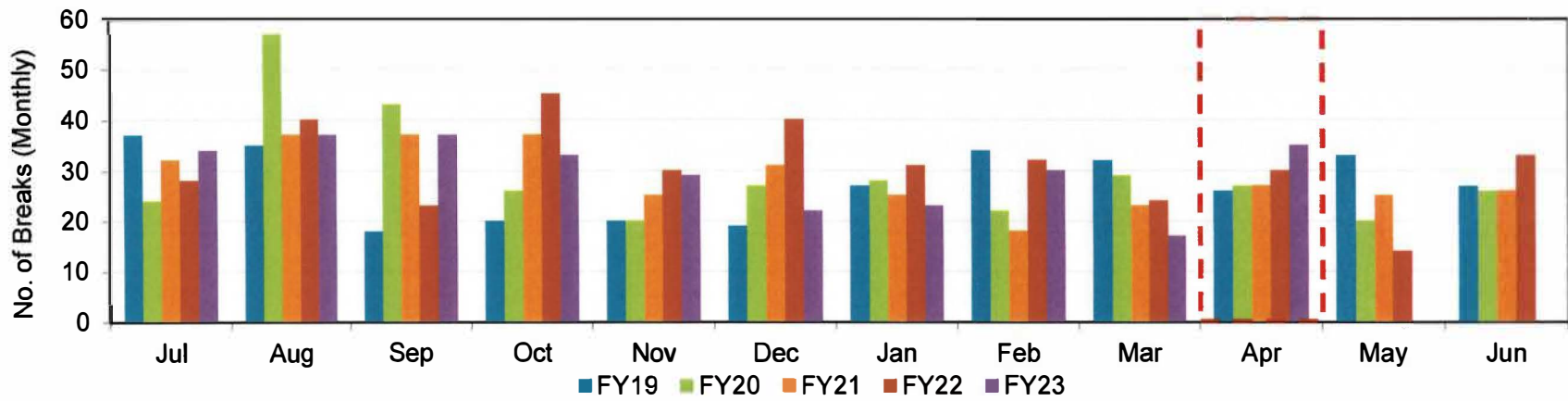
Chair Andaya inquired if there were any vacancies in the Leak Detection Team.

Mr. Jason Nikaido replied that there were no vacancies; however, the Field Operations Division is working on adding two additional positions to the Leak Detection Team, as mentioned by Ms. Nakabayashi previously. He explained that adding two other positions and updating the satellite detection contract would help locate more potential leaks.

WATER MAIN REPAIR REPORT
for April 2023

Monthly Main Breaks

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2023	34	37	37	33	29	22	23	30	17	35			297
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

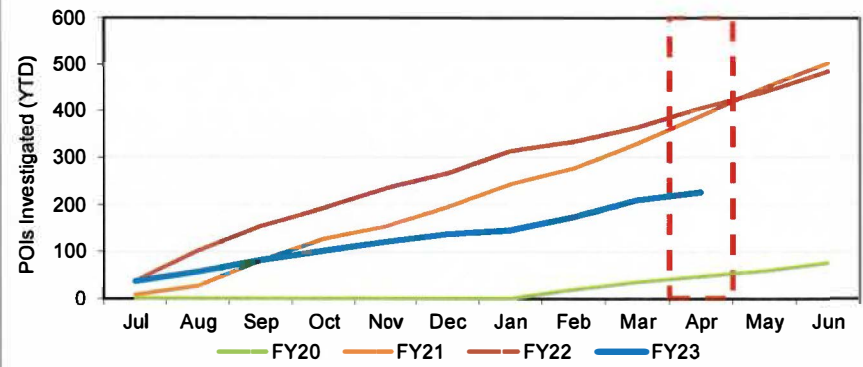
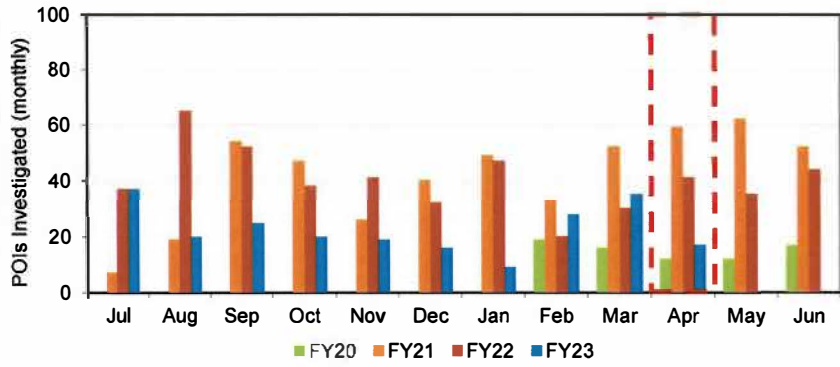


Date	Address	Size (In)	Pipe Type	Date	Address	Size (In)	Pipe Type
4/3/2023	1025 McCandless Ln, Honolulu	6	DI	4/26/2023	392 N Vineyard Blvd, Honolulu	12	CI
4/3/2023	66-948 Kiekonea Way, Waialua	6	CI	4/27/2023	87-186 Manuulaula St, Waianae	8	CI
4/4/2023	53-797 Kamehameha Hwy, Hauula	12	CI	4/27/2023	2040 Kalakaua Ave, Honolulu	12	CI
4/4/2023	8751-9057 Kalaniana'ole Hwy, Kaneohe	16	CI	4/28/2023	2450 Pauoa Rd, Honolulu	6	CI
4/5/2023	2429 Kini Pl, Honolulu	6	CI	4/29/2023	1629 Ala Lani St, Honolulu	8	PVC
4/5/2023	240 Iliwai Dr, Wahiawa	6	CI				
4/6/2023	787 Kamehameha Hwy, Pearl City	8	CI				
4/8/2023	50 Dowsett Ave, Honolulu	8	PVC				
4/8/2023	680 Wanaao Rd, Kailua	12	AC				
4/8/2023	99-753 Pohue St, Halawa Heights	8	CI				
4/10/2023	3454 McCorriston St, Honolulu	8	CI				
4/10/2023	1801 Beckley St, Honolulu	6	CI				
4/10/2023	1019 McCandless Ln, Honolulu	8	DI				
4/10/2023	3871 Old Pali Rd, Honolulu	6	CI				
4/12/2023	2920 S King St, Honolulu	8	CI				
4/13/2023	3624 Manoa Rd, Honolulu	12	CI				
4/14/2023	2252 Hulali Pl, Honolulu	6	CI				
4/14/2023	2252 Hulali Pl, Honolulu	6	CI				
4/14/2023	4775 Kahala Ave, Honolulu	8	CI				
4/14/2023	3202 Noela Dr, Honolulu	6	CI				
4/14/2023	67-124 Kuhi St, Waialua	8	CI				
4/15/2023	94-837 Waipahu St, Waipahu	12	CI				
4/16/2023	306 N Kainalu Dr, Kailua	8	CI				
4/16/2023	94-947 Awamoku Pl, Waipahu	6	CI				
4/19/2023	1437 Akiikii Pl, Kailua	8	CI				
4/20/2023	94-1274 Peke Pl, Waipahu	4	CI				
4/21/2023	1367 Akahai St, Kailua	8	CI				
4/21/2023	87-890 Farrington Hwy, Waianae	8	CI				
4/22/2023	593 Kailua Rd, Kailua	16	AC				
4/23/2023	538 Holokahana Ln, Honolulu	6	CI				

**LEAK DETECTION
for April 2023**

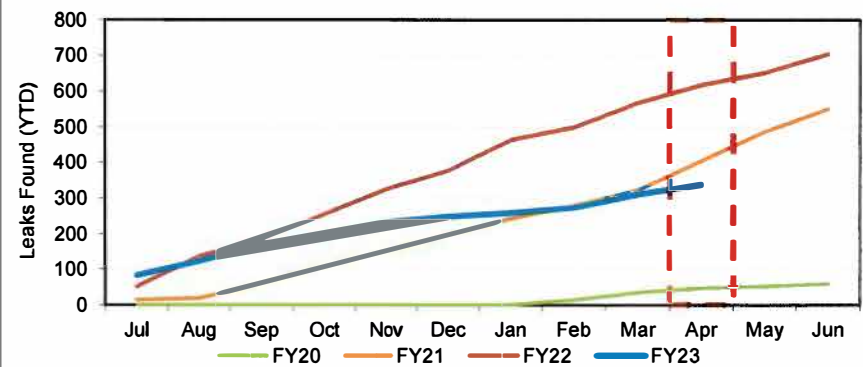
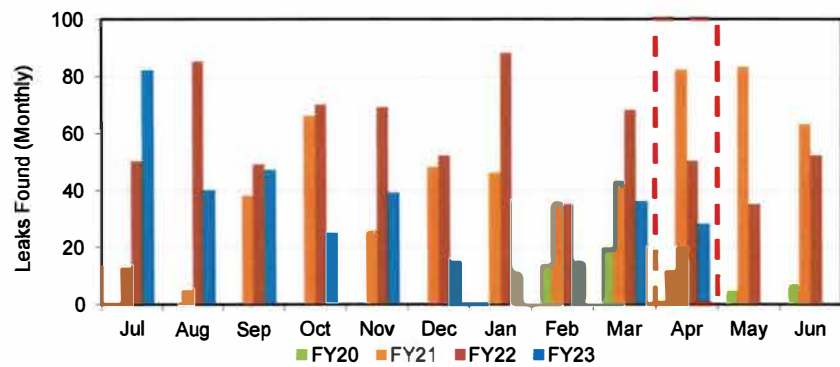
POIs Investigated

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2023	37	20	25	20	19	16	9	28	35	17			226
2022	37	65	52	38	41	32	47	20	30	41	35	44	482
2021	7	19	54	47	26	40	49	33	52	59	62	52	500
2020								19	16	12	12	17	76



Leaks Found

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2023	82	40	47	25	39	15	11	15	36	28			338
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 3:38 PM called for a motion to adjourn the Open Session. Na'alehu Anthony so moved; seconded by Max Sword and unanimously carried.

Upon unanimous approved motion, the Board recessed into Executive Session Pursuant to [HRS § 92-5 (a)(4)] at 3:38 PM to Consider Issues Pertaining to Matters Posted for Discussion at an Executive Session.

OPEN SESSION

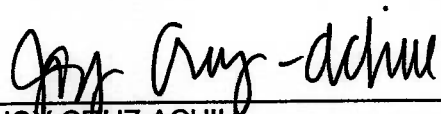
The Board reconvened in Open Session at 4:40 PM.

MOTION TO ADJOURN


There being no further business Chair Andaya at 4:41 PM, called for a motion to adjourn the Regular Session. Jonathan Kaneshiro so moved, seconded by Na'alehu Anthony, and unanimously carried.

The minutes of the Regular Meeting held on May 22, 2023, are respectfully submitted,

THE MINUTES OF THE PUBLIC HEARING AND REGULAR MEETING HELD ON MAY 22, 2023 WERE APPROVED AT THE JUNE 26, 2023 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT			ABSTAIN
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		
WARREN K. MAMIZUKA	X		


 JOY CRUZ-ACHUI

APPROVED:


 BRYAN P. ANDAYA
 Chair of the Board
JUN 26 2023

Date _____