

## MINUTES

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

May 26, 2020

The Public Hearing was held in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, to Consider (1) Proposed Fiscal Year 2020-2021 Operating and Capital Improvement Program Budget for the Board of Water Supply.

Present: Bryan P. Andaya, Chair  
Kapua Sproat, Vice Chair *via* WebEx  
Kay C. Matsui *via* WebEx  
Max J. Sword  
Ray C. Soon  
Ross S. Sasamura *via* WebEx  
Jade T. Butay *via* WebEx

Also Present: Ernest Lau, Manager and Chief Engineer  
Ellen Kitamura, Deputy Manager and Chief Engineer  
*via* WebEx  
Mike Fuke, Program Administrator,  
Field Operations Division  
Jason Takaki, Program Administrator,  
Capital Projects Division  
Barry Usagawa, Program Administrator  
Water Resources Division  
Michele Thomas, Executive Assistant,  
Human Resources Office  
Raelynn Nakabayashi, Executive Assistant,  
Executive Support Office  
Deanna Thyssen, Private Secretary,  
Office of the Manager and  
Chief Engineer  
Steven Norstrom, Information Specialist II  
Communications

Others Present: Jeff Lau, Deputy Corporation Counsel  
*via* Conference Call  
Moana Yost, Deputy Corporation Counsel  
*via* Conference Call

Absent:

## PUBLIC HEARING

At 2:03 PM, Chair Bryan Andaya called to order the Public Hearing. Chair Andaya announced that a Public Hearing will be held first. After the Public Hearing, the Regular Meeting of the Honolulu Board of Water Supply (BWS) will commence.

Chair Andaya began by giving his opening remarks. He stated that the notice of the Public Hearing appeared in the May 15th, 2020 Honolulu Star-Advertiser newspaper. Chair Andaya stated that the BWS is dedicated to the provision of a safe, dependable, and affordable supply of water to our customers. One of the best ways we can ensure that this occurs is to thoughtfully plan and fund a regular program of water facility replacement and improvement, as reflected in the annual Operating and Capital Improvement Program (CIP) Budget we are considering today. The Purpose of the Public Hearing is to allow public testimony on the proposed budget.

Chair Andaya introduced the Board Members by roll call and requested that each Board Member respond verbally and say "aye" when their name is called. Board Member Jade Butay, aye; Board Member Kay Matsui, aye; Board Member Ross Sasamura, aye; Board Member Ray Soon, aye; Board Member Max Sword, aye; Vice Chair Kapua Sproat, aye. Chair Andaya noted that Vice Chair Sproat, Board Members Butay, Matsui, and Sasamura and Deputy Manager Ellen Kitamura were participating in the meeting via webex. Chair Andaya also noted that present in the Board Room were Board Members Soon and Sword, Manager and Chief Engineer, Ernest Lau, Private Secretary Deanna Thyssen, and Information Specialist, Steven Norstrom. Joining by telephone were Jeff Lau and Moana Yost from the Corporation Counsel.

Chair Andaya reported that an informational Budget Workshop Meeting was held on May 11, 2020. The workshop outlined the Department's goals and objectives and the proposed Operating and the CIP Budget for the Fiscal Year 2020-2021.

Chair Andaya introduced Manager and Chief Engineer Ernest Lau to give a brief overview of the budget that will be presented today.

Manager Lau thanked Chair Andaya and introduced Ms. Raelynn Nakabayashi, Executive Assistant, Executive Support Office, to provide a short presentation on the overall budget. Following Ms. Nakabayashi will be Mr. Jason Takaki, Program Administrator, Capital Projects Division, to present a summary of the CIP Budget.

Ms. Nakabayashi proceeded to present the proposed Operating Budget for Fiscal Year 2020-2021. She explained that with our economic situation the budget was carefully put together, and The CIP program is in line with the 30-Year BWS Water Master Plan and Long-Range Financial Plan.

The Operating Budget for Fiscal Year 2020-2021 increased by 1.7% over the prior Fiscal Year 2020. The CIP Budget increased by \$3.5 million or 2.3% over Fiscal Year 2020.

Ms. Nakabayashi presented the highlights of her presentation as follows:

1. The BWS Long-Range Financial Plan assumed a 3.5% annual increase in operating costs. This Fiscal Year 2020-2021 budget reflects only a 1.7% increase in the Operating Budget, which is less than half of the annual increase projected.
2. With the uncertainty of economic impact due to the pandemic, the BWS took a conservative approach in the development of the proposed Operating Budget for

Fiscal Year 2020-2021. A combination of fund sources will be used in Fiscal Year 2020-2021: cash, state revolving fund loans, and bonds.

3. The bond issue is anticipated to be \$72.9 million in the next fiscal year.

Ms. Nakabayashi discussed comparisons between the Fiscal Year 2021 and 2020 budgets. The Operating expenditures are budgeted to increase by 1.7%; mainly due to costs drivers outside of our control and new initiatives. Operating Fund resources are forecasted to be \$295 million for Fiscal Year 2020-2021. The BWS has maintained a balance between keeping sufficient financial reserves while keeping rates affordable. This has been achieved through the reduction of the amount of fund carryover at the end of each fiscal year.

Ms. Nakabayashi explained carryover is the un-budgeted and unreserved cash amount remaining at the end of each year. In Fiscal 2020-2021 this is projected to be 41 days. This number can be mitigated with federal stimulus funds, which the BWS is actively seeking. She further noted that the debt service coverage of 1.6 times in Fiscal Year 2020-2021 complies with the Board adopted BWS financial policies.

Ms. Nakabayashi stated the total Operating Fund budget for Fiscal Year 2020-2021 is \$271.5 million, which consist of the following: personnel services is \$51.1 million; materials, supplies, and services are \$72.1 million; equipment is \$6.6 million; debt service is \$24.2 million; fixed charges are \$53.9 million, and CIP is \$63.6 million. Excluding the Operating Funds attributable to the Capital Improvement Program, there is a \$3.3 million increase in Operating Budget expenditures in Fiscal Year 2021.

Ms. Nakabayashi stated the largest increase in cost, year over year, is in fixed charges at \$2.8 million. This is followed by increases in personnel services at \$1.9 million, and debt services at \$1.8 million. The largest drivers of cost increases, fixed charges, and debt service, are non-discretionary cost items the BWS must bear to operate. Personnel services is expected to increase due to negotiated and mandated collective bargaining agreement adjustments.

Ms. Nakabayashi shared the comparisons between Fiscal Year 2020-2021 proposed budget to four years prior.

In an effort to right-size the budget, the BWS actually decreased its Operating Fund expenditures from Fiscal Year 2017 through 2019. However, this decreasing trend was not sustainable due to rising costs, collective bargaining agreements, and the BWS 30-Year Water Master Plan goal to replace 21 miles of pipeline in 10 years. The BWS requires people and resources to reach that goal.

Ms. Nakabayashi reported the following highlights of the Operating Expenses: No net increase in full-time equivalent employee count; it remains at 741 employees. There is an increase of \$1.8 million in salaries or 3.6% due to collective bargaining agreements. Materials, services, and supplies decreased \$2.3 million from Fiscal Year 2020 due to decreases in funding for emergency and contracted road repairs, Automatic Meter Reading (AMR) materials and supplies, drinking water system risk assessment study, and document management contract. This was offset by an increase in funding for sanitary service inspection services and the Beretania Redevelopment Project. Equipment funding decreased by \$682 thousand.

Fixed charges increased due to an increase in Employee Union Trust Fund (EUTF) and Other Post-Employment Benefits contributions of \$725,000. Additionally, \$2 million more is budgeted for electricity expenses.

Ms. Nakabayashi discussed the breakdown of the revenue projections for Fiscal Year 2021. Metered sales of potable and non-potable water is projected to decrease by 0.5 percent while there will be slight increase in metered sales of recycled water of 1.4 percent. Other revenues decreased by 2 percent, primarily due to a decrease in interest income.

The Operating Budget is very lean for Fiscal Year 2020-2021.

Board Member Ray Soon inquired if the Department has seen any loss in revenue due to non-payment of water bills.

Manager Ernest Lau responded that the Department is currently closely monitoring multiple aspects: production levels, consumption levels, and any changes in delinquencies, that may all lead to loss of revenue. Though early, at this time, BWS has not noticed significant changes in these numbers.

Ms. Nakabayashi commented, since the March stay-at-home order went into effect, we began closely monitoring the aspects of our business Manager Lau mentioned. We have also been monitoring the number of ratepayers requesting payment arrangements. With the limited data we have been able to collect since March, we projected the pandemic will affect our Fiscal Year 2019-2020 fourth-quarter revenues as well as the first and second-quarter revenues of Fiscal Year 2020-2021. Though a rate increase is scheduled for July 1, 2020, revenue projections for the entire Fiscal Year 2021 were held essentially flat. Ms. Nakabayashi indicated that the updated Long-Range Financial Plan will take the various data previously mentioned to help forecast future trends.

Board Member Soon requested to include the worst-case scenarios in the updated Long-Range Financial Plan.

Manager Lau stated as part of our Long-Range Financial Plan, the BWS will develop and explore the worst-case, and various different stress scenarios.

Chair Andaya introduced Mr. Jason Takaki, Program Administrator, Capital Projects Division, to present the CIP Budget for Fiscal Year 2020-2021.

Mr. Takaki presented the highlights of the proposed Fiscal Year 2020-2021 Capital Improvement Program Budget. The CIP is aligned with the Water Master Plan and Strategic Plan, the Divisions' goals and objectives in support of the Plans and the Long-Range Capital Improvement Program.

The CIP carefully balances the needs of the water system with cost-effective management of assets and funding. The total CIP Budget for Fiscal Year 2020-2021 is \$170,127,500 and is comprised of three project categories.

1. Research and Development – \$2,660,000
2. Renewal and Replacement - \$105,725,000
3. Capacity Expansion - \$34,250,000



Category 1 includes the use of professional construction management services and a number of exploratory well projects to investigate the feasibility of future source development.

Category 2 includes major renovations at Waihee Line Booster, Mariner's Ridge Booster No. 2, and Kunia Wells III. Renewals and Replacements also includes the replacement of a failing water reservoir in Kailua and water main replacements. In Fiscal Year 2021, 10.4 miles of water main will be replaced in areas ranging from Wahiawa to Kailua. Main replacement design projects will be initiated around the island, from Kaimuki to Ewa. A total of 8.3 miles of main replacement design projects are planned.

Mr. Takaki shared that other projects in Renewal and Replacement include corrosion control measures for our water treatment facilities, accessibility upgrades at the BWS educational showcase, Halawa Xeriscape garden, and repairs at the Keanu and Fort Ruger pipeline tunnels. The BWS will continue to maintain reservoirs and other structures around the island, upgrade security at BWS facilities, and make improvements to the Public Service Building at the Beretania Complex.

The total for the Capacity Expansion category is \$34.25 million. This includes funding for the Kalawahine 180 reservoir in Papakolea, in addition to two joint projects, one with the City and County of Honolulu and the other with the State Department of Transportation. These projects will up-size mains on a portion of Salt Lake Boulevard and crossing the Honolulu Harbor to Sand Island, respectively.

Mr. Takaki ended reporting Capacity Expansion for Fiscal Year 2020-2021 includes funding for the design-build construction of the first phase of a new Kapolei base yard.

Board Member Max Sword inquired about the renovations on the windows of the engineering building.

Manager Lau replied the Engineering building was built in the 1930s. This project is to replace all the windows. The building is still in use.

Board Member Soon inquired if there was a study performed on the impact of sea-level rise and climate change on our water systems, pipeline and pumping station, and reservoirs.

Mr. Barry Usagawa, Program Administrator, Water Resources Division, replied the BWS has partnered with the Water Research Foundation on a climate change vulnerability assessment on water supply and coastal infrastructure from sea-level rise. With three feet of sea-level rise, approximately 20 miles of pipelines will be exposed to more corrosion. The BWS will replace these pipes with corrosion-resistant materials such as PVC and epoxy-bonded coated ductile iron, with the intent to increase the design life to one hundred years.

Mr. Usagawa mentioned that in coastal areas, pipes hung under low lying bridges could be damaged from erosion from storm surge undermining the bridge supports.

Mr. Usagawa shared that the study also looked at a drought scenario impacting source yields. Should we be faced with this scenario, there are several strategies we can pursue, such as water conservation, diversifying water supplies like recycled water and desalination, and stormwater capture.

Board Member Soon inquired if the information presented went into any adjustments to the CIP.

Mr. Takaki replied there are no specific projects in the upcoming Fiscal Year 2020-2021 CIP. However, in accordance with the directive from the Mayor, climate change and sea-level rise are a consideration in BWS design projects. Changes were also made to the BWS planning and design standards.

Mr. Usagawa shared that climate change and sea-level rise adaptation are integrated in our Long-Range Plans.

Mr. Mike Fuke, Program Administrator, Field Operations Division, mentioned that sea-level rise will cause maintenance issues.

Mr. Usagawa shared that the plans evaluated sea-level rise and pipeline maintenance. There were five main breaks in low lying streets where pipe repair crews had to wait for low tide to pump the water out of the trench, extending the time for repairs.

Mr. Usagawa states as sea level continues to rise over time; it will be increasingly challenging to repair water main breaks.

Chair Andaya requested another roll call and asked each Board Member to respond verbally and say "aye" when their name is called. Vice Chair Kapua Sproat, aye; Board Member Jade Butay, aye; Board Member Kay Matsui, aye; Board Member Ross Sasamura, aye; Board Member Ray Soon, aye; Board Member Max Sword, aye.

Chair Andaya inquired if any emails or written testimonies were received on the proposed budget. Ms. Deanna Thyssen, Private Secretary, Office of the Manager and Chief Engineer, responded that no written testimonies or emails were submitted. Chair Andaya stated to let the record reflect that no email or written testimonies were submitted.

Chair Andaya inquired if the Board Meeting is being streamed on Facebook Live. Manager Lau confirmed that the Board Meeting is currently being streamed on Facebook Live as well as Vimeo on the BWS webpage.

Chair Andaya announced that the phone lines are open for public testimony, and the testimonies are limited to two minutes. Steven Norstrom, Information Specialist, Communications Office, indicated that the phone lines were opened at 2:00 PM, and no calls were waiting in the queue. Chair Andaya confirmed that no callers were waiting to testify.

Chair Andaya closed the Public Hearing at 2:43 PM and continued with the Regular Board Meeting.

## REGULAR MEETING

Chair Andaya requested another roll call for the Regular Meeting and asked each Board Member to respond verbally and say "aye" when their name is called. Vice Chair Kapua Sproat, aye; Board Member Jade Butay, aye; Board Member Kay Matsui, aye; Board Member Ross Sasamura, aye; Board Member Ray Soon, aye; Board Member Max Sword, aye.

Chair Andaya called the Regular Meeting to order at 2:45 PM.

### APPROVAL OF MEETING

Approval of the Minutes of the Haiku Stairs Public Hearing and Regular Meeting held on April 27, 2020.

### MOTION TO APPROVE

Ray Soon and Max Sword motioned and seconded, respectively, to approve the Minutes of the Haiku Stairs Public Hearing and Regular Meeting of April 27, 2020. The motion was unanimously carried.

THE MINUTES OF THE HAIKU STAIR PUBLIC HEARING AND REGULAR MEETING HELD ON APRIL 27, 2020, WERE APPROVED AT THE MAY 26, 2020 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
KAY C. MATSUI	X		
RAY C. SOON	X		
MAX J. SWORD	X		
ROSS S. SASAMURA	X		
JADE T. BUTAY	X		

**APPROVAL OF  
MINUTES**

Approval of the Minutes of the Budget Workshop Meeting held on May 11, 2020.

**MOTION  
TO APPROVE**

Ray Soon and Max Sword motioned and seconded, respectively, to approve the Minutes of the Budget Workshop Meeting of May 11, 2020. The motion was unanimously carried.

THE MINUTES OF THE BUDGET WORKSHOP MEETING HELD ON MAY 11, 2020, WERE APPROVED AT THE MAY 26, 2020 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
KAY C. MATSUI	X		
RAY C. SOON	X		
MAX J. SWORD	X		
ROSS S. SASAMURA	X		
JADE T. BUTAY	X		

"May 26, 2020

ADOPTION OF  
RESOLUTION  
NO. 910, 2020  
ADOPTING THE  
OPERATING  
AND CAPITAL  
IMPROVEMENT  
BUDGET FOR  
THE FISCAL  
YEAR 2020  
2021 AND  
APPROPRIATING  
FUNDS  
THEREFOR

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

Chair and Members:

Subject: Adoption of Resolution No. 910, 2020, Adopting the  
Operating and Capital Improvement Program for the Fiscal  
Year 2020-2021 and Appropriating Funds Therefor

We recommend adoption of the proposed Operating and Capital  
Improvement Program Budget for the fiscal year beginning July 1, 2020  
and ending June 30, 2021.

A Public Hearing to consider the proposed Budget, as required by the City  
Charter, was held on May 26, 2020. The affidavit attesting to the  
publication of the Public Hearing notice is attached.

We further recommend adoption of the attached Resolution No. 910, 2020,  
Adopting the Operating and Capital Improvement Program Budget for the  
Fiscal Year 2020-2021, and Appropriating Funds Therefor follows:

1. The sum of \$207,848,937 from the Operating Fund for the  
Operating Budget expenditures.
2. The sum of \$63,627,500 from the Operating Fund, \$72,980,000  
from the Improvement Fund, and \$33,520,000 from the Special  
Expendable Fund for Capital Improvement Program Budget  
expenditures.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

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

Chair Andaya announced that there were no public testimony received on  
this resolution.

Board Member Sword inquired if there was a real-time sense of the  
reduction in water use and lost revenue. Manager Lau responded that  
there is a lag since we bill on a monthly basis. The water bills are

processed based on the monthly meter reads, then mailed out to the customers. Then there needs to be an analysis on the amount revenue received from the bills and any delinquencies.

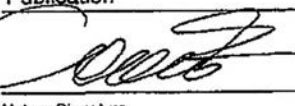
Board Member Sword commented that it would be interested to see the impact on the budget because there is a lag.

Manager Lau offered to update the Board quarterly on the delinquencies.

# AFFIDAVIT OF PUBLICATION

## IN THE MATTER OF NOTICE OF PUBLIC HEARING

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

Doc. Date:	MAY 15 2020	# Pages:	1
Notary Name:	COLLEEN E. SORANAKA	First Judicial Circuit	
Doc. Description:	Affidavit of Publication		
Notary Signature	 MAY 15 2020		
Date			

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

Honolulu Star-Advertiser 1 times on:

05/15/2020

MidWeek 0 times on:

The Garden Island 0 times on:

Hawaii Tribune-Herald 0 times on:

West Hawaii Today 0 times on:

Other Publications: 0 times on:

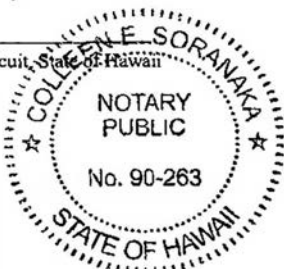
And that affiant is not a party to or in any way interested in the above entitled matter.

  
Lisa Sakakida

sworn before me this 15 day of May A.D. 2020

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

Ad # 0001279009



### NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the BOARD OF WATER SUPPLY, CITY AND COUNTY OF HONOLULU, will hold a PUBLIC HEARING in the Board Room, Public Service Building, 630 South Beretania Street, on Tuesday, May 26, 2020, at 2:00 p.m. or soon thereafter, where all interested persons shall be afforded the opportunity of being heard, while complying with all directives from the Governor of the State of Hawaii and the Mayor of the City and County of Honolulu, on the adoption of the Proposed Fiscal Year (FY) 2020-2021 Operating and Capital Improvement Program Budget of the Board of Water Supply for the fiscal year beginning July 1, 2020 and ending June 30, 2021.

Information to be discussed at this public hearing will be made available online at [www.boardofwatersupply.com](http://www.boardofwatersupply.com). All comments on or suggested changes to the proposed FY 2020-2021 Operating and Capital Improvement Program Budget of the Board of Water Supply should be filed in writing before the date of the public hearing or presented in person at the time of the hearing, via technically feasible methods complying with all directives from the Governor of the State of Hawaii and the Mayor of the City and County of Honolulu. Persons wishing to present oral testimony are requested to register by 1:00 p.m. on May 22, 2020, with Luella Paekukui, 748-5176, by providing your name, phone number, and subject matter of testimony. Testimony is limited to three minutes and shall be presented by the registered speaker only. Any person requiring special assistance who plans to attend the public hearing, may contact Luella Paekukui at 748-5176, no later than May 19, 2020, so that appropriate accommodations can be provided.

BOARD OF WATER SUPPLY  
CITY AND COUNTY OF HONOLULU

(SA1279009 5/15/20)

ICSP NO.: \_\_\_\_\_

BOARD OF WATER SUPPLY  
CITY AND COUNTY OF HONOLULU

1.     RESOLUTION NO. 910, 2020

**RESOLUTION ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT  
PROGRAM BUDGET FOR FISCAL YEAR 2021 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 SEVEN MILLION EIGHT HUNDRED FORTY EIGHT THOUSAND NINE HUNDRED AND THIRTY-SEVEN DOLLARS (\$207,848,937) 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, 2020 and ending June 30, 2021 as follows:

2.     OPERATING BUDGET

OPERATING FUND.....\$207,848,937

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 sum of SIXTY-THREE MILLION SIX HUNDRED AND TWENTY-SEVEN THOUSAND AND FIVE HUNDRED DOLLARS (\$63,627,500) be and the same is hereby appropriated out of all monies placed to the credit of the Operating Fund, the sum of SEVENTY-TWO MILLION NINE HUNDRED EIGHTY THOUSAND DOLLARS (\$72,980,000) be and the same is hereby appropriated out of all monies placed to the credit of the Improvement Fund and the sum of THIRTY-THREE MILLION FIVE HUNDRED TWENTY THOUSAND DOLLARS (\$33,520,000) be and the same is hereby appropriated out of all monies placed to the credit of the Special Expendable Fund, for a total of ONE HUNDRED SEVENTY MILLION ONE HUNDRED TWENTY-SEVEN THOUSAND FIVE HUNDRED DOLLARS (\$170,127,500) for expenditures of the Board of Water Supply Capital Improvement Program Budget for the fiscal year beginning July 1, 2020 and ending June 30, 2021, as follows:

3. CAPITAL IMPROVEMENT PROGRAM BUDGET

OPERATING FUND.....	\$ 63,627,500
IMPROVEMENT FUND	\$ 72,980,000
SPECIAL EXPENDABLE FUND.....	\$ 33,520,000
TOTAL.....	\$170,127,500

BE IT FURTHER RESOLVED that the Manager and Chief Engineer, at his discretion, shall have the authority to adjust the method of funding the Capital Improvement Program Budget and that the Manager and Chief Engineer may increase or decrease the amount appropriated out of the Operating Fund, Improvement Fund, and Special Expendable 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 FINALLY RESOLVED that revenue bonds of the Board of Water Supply, City and County of Honolulu 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 determine the form, date, amount, denomination, and maturity of the bonds herein authorized.

ADOPTED:



BRYAN P. ANDAYA  
Chair

Honolulu, Hawaii  
May 26, 2020

RESOLUTION NO. 910, 2020, ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT PROGRAM FOR THE FISCAL YEAR 2020-2021 AND APPROPRIATING FUNDS THEREFOR, ADOPTED ON MAY 26, 2020			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
KAY C. MATSUI	X		
RAY C. SOON	X		
MAX J. SWORD	X		
ROSS S. SASAMURA	X		
JADE T. BUTAY	X		

**WATER FOR LIFE**

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



Board of Water Supply  
City and County of Honolulu



# **FY 2021 Budget Presentation**

**Board of Water Supply**

**May 26, 2020**



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**Board of Water Supply**  
City and County of Honolulu

# **FY 2021 Operating Budget and Capital Improvement Program Budget**





## FY 2021 Operating and Capital Improvement Program Budget Summary

	<b>FY 2020 – Adopted</b>	<b>FY 2021 – Proposed</b>	<b>\$ Change</b>	<b>% Change</b>
Operating Budget	\$204,460,138	\$207,848,937	\$3,388,799	1.7%
Capital Improvement Program Budget	\$166,305,000	\$170,127,500	\$3,822,500	2.3%
Total	\$370,765,138	\$377,976,437	\$7,211,299	1.9%







## FY 2021 Budget

- Operating Budget increases by \$3.5 million or 1.7% over FY 2020.
- Capital Improvement Program Budget increases by \$3.8 million or 2.3% over FY 2020.
- Consistent with the long-range financial plan, BWS intends to issue revenue bonds in the second half of FY 2021.
- The bond issue is anticipated to be \$72.9 million in the next fiscal year.



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**Board of Water Supply**  
City and County of Honolulu

## **Operating Fund Revenue Expenditure Summary**

**(millions of dollars)**

	<b>FY 2020</b>	<b>FY 2021</b>	<b>Change</b>	
	<b>Adopted</b>	<b>Proposed</b>	<b>\$ Mil.</b>	<b>%</b>
Revenues	\$246.2	\$245.1	\$-1.1	-0.5%
Total Operating Expenditures	\$204.5	\$207.8	\$3.3	1.7%



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Board of Water Supply  
City and County of Honolulu

## Operating Fund Resources and Expenditures

(millions of dollars)

	FY 2019	FY 2020	FY 2021
	Actual	Estimated Actual	Budget
<b>Beginning Balance</b>	<b>\$ 87.7</b>	<b>\$ 51.8</b>	<b>\$ 49.9</b>
Revenues	235.7	240.7	245.1
Lapses/ Adjustments	4.9	2.5	-
<b>Total Resources</b>	<b>328.3</b>	<b>295.0</b>	<b>295.0</b>
Operating Expenditures	169.4	177.8	207.8
Capital Improvement Program	107.1	67.3	63.6
Special Ex. Fund reimbursement (Affordable & Homeless Housing Waiver Program)		---	---
<b>Total Expenditures</b>	<b>276.5</b>	<b>259.2</b>	<b>271.4</b>
<b>Ending Balance</b>	<b>\$ 51.8</b>	<b>\$ 49.9</b>	<b>\$ 23.6</b>



## **Board Adopted Financial Policies**

### **4.4.2 Debt Service Coverage – FY 21 1.6x**

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 Working Capital – FY21 41 Days**

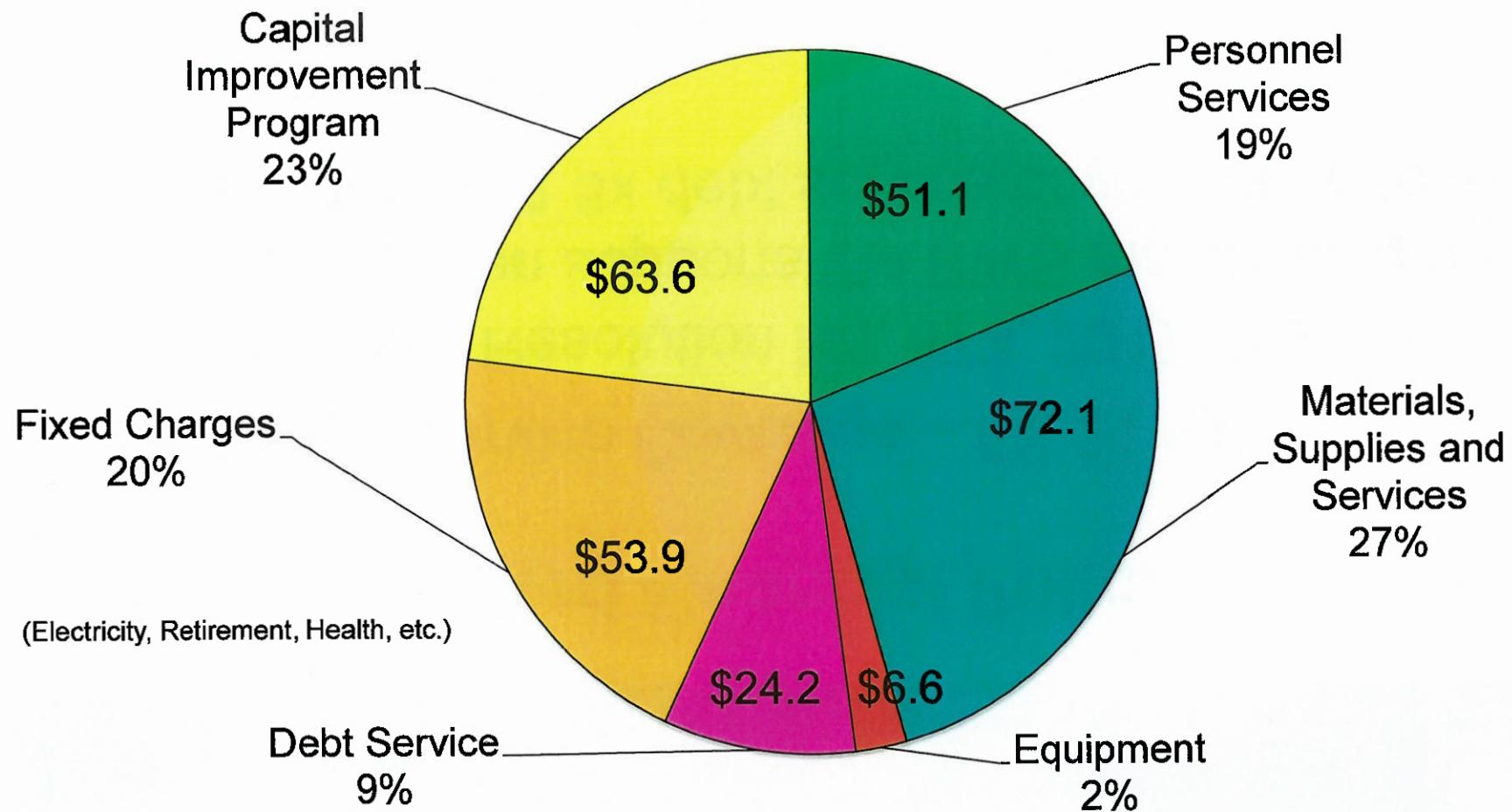
Revenue requirements include targeting 180 days of unencumbered working capital while never having less than 60 days.





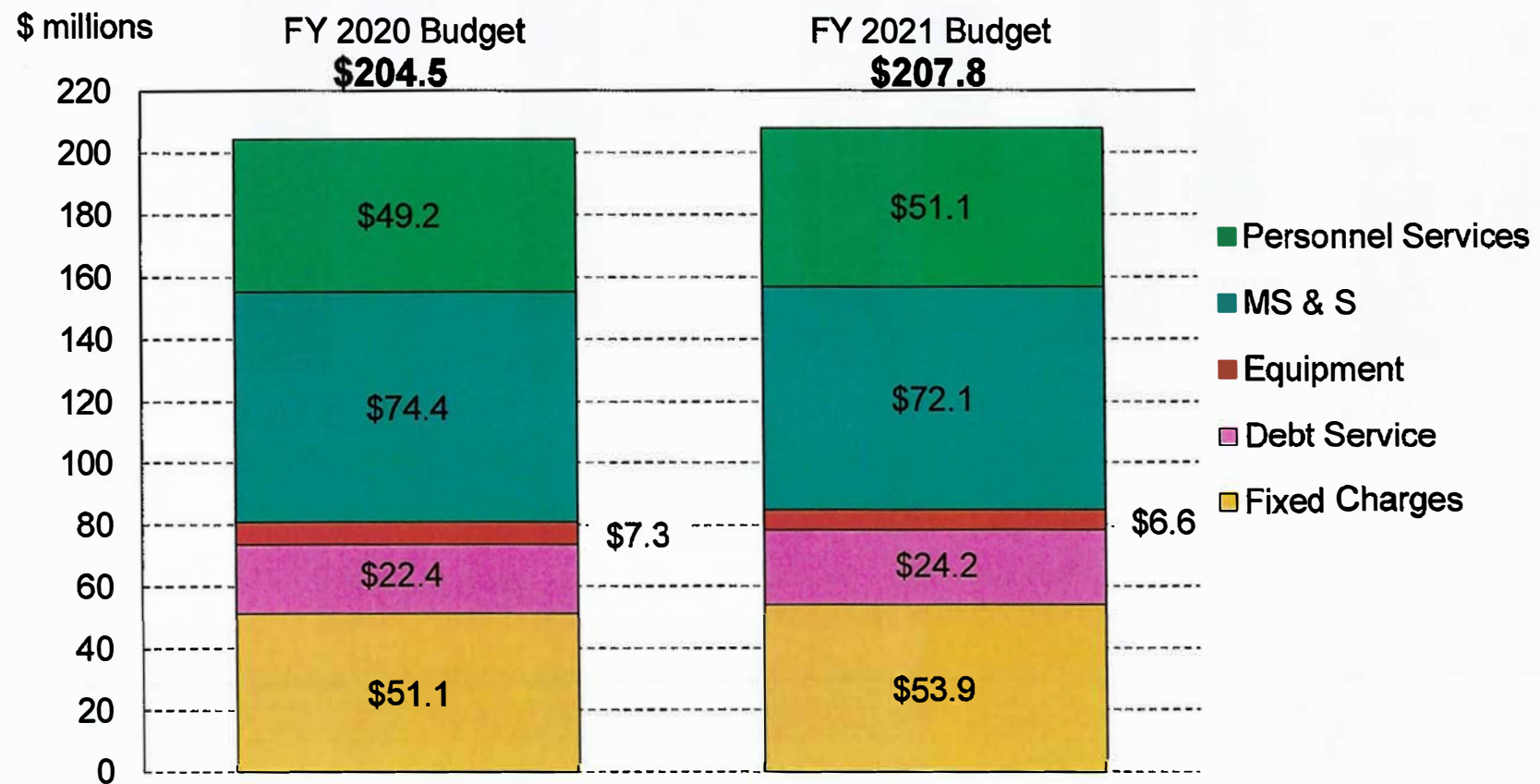
## Operating Fund Expenditures for FY 2021

**\$271.5 million**





## Operating Budget Expenditures Excluding CIP





**WATER FOR LIFE**

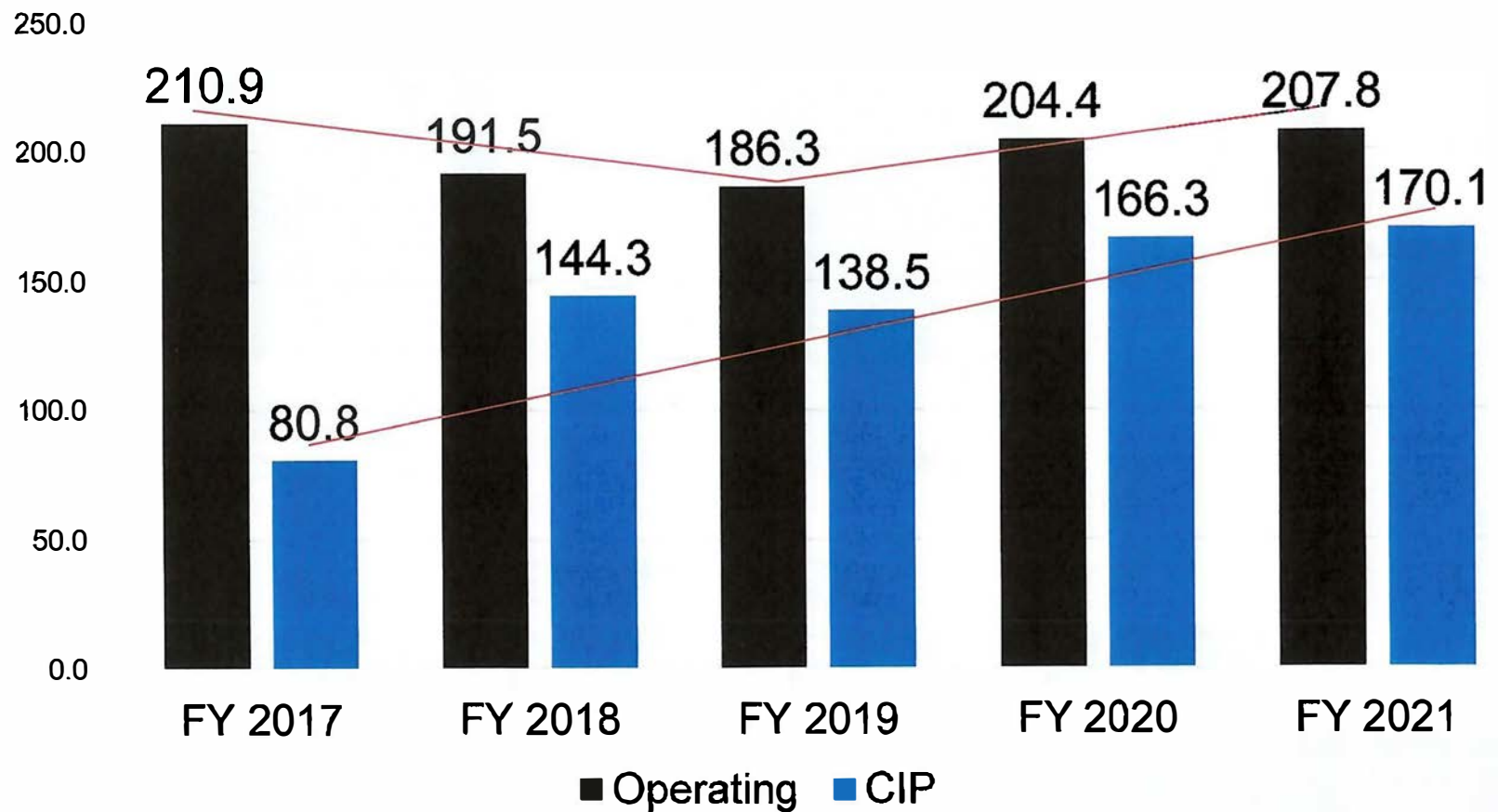
*Safe, dependable, and affordable water now and into the future*



Board of Water Supply  
City and County of Honolulu

## Operating & CIP Budget

(millions of dollars)





## Highlights of the Operating Budget

### Operating Expenses:

#### Salaries

- No net increase in FTE. Remains at 741 FTE.
- \$1.8 million increase in salaries or +3.6%

### Human Resources Initiatives:

- Optimize available staffing and create efficiencies through reorganization of functions
- Expand operational capacity through the leveraging of technology





## Highlights of the Operating Budget

### Operating Expenses (cont.):

#### Materials, Services & Supplies:

- **\$2.3 million decrease from the FY 2020 budget.**
  - Decreased funding for emergency and contracted road repairs (- \$1.7 million)
  - Less funding for AMR materials and supplies (- \$1.5 million)
  - Decreased funding for a drinking water system risk assessment study (- \$1.0 million)





## Highlights of the Operating Budget

### **Operating Expenses (cont.):**

#### **Materials, Services & Supplies:**

- And a reduction in funding for a document management system (- \$390 thousand).
- The decreases were offset by an increase in funding for sanitary survey inspection services of \$1 million and an increase of \$1.2 million for the Beretania Redevelopment Project.







## Highlights of the Operating Budget

### Operating Expenses (cont.):

#### Equipment

- \$682 thousand less for new and replacement vehicles.

#### Fixed Charges

- \$725 thousand increase in EUTF and OPEB contributions
- \$2.0 million more for electricity expenses





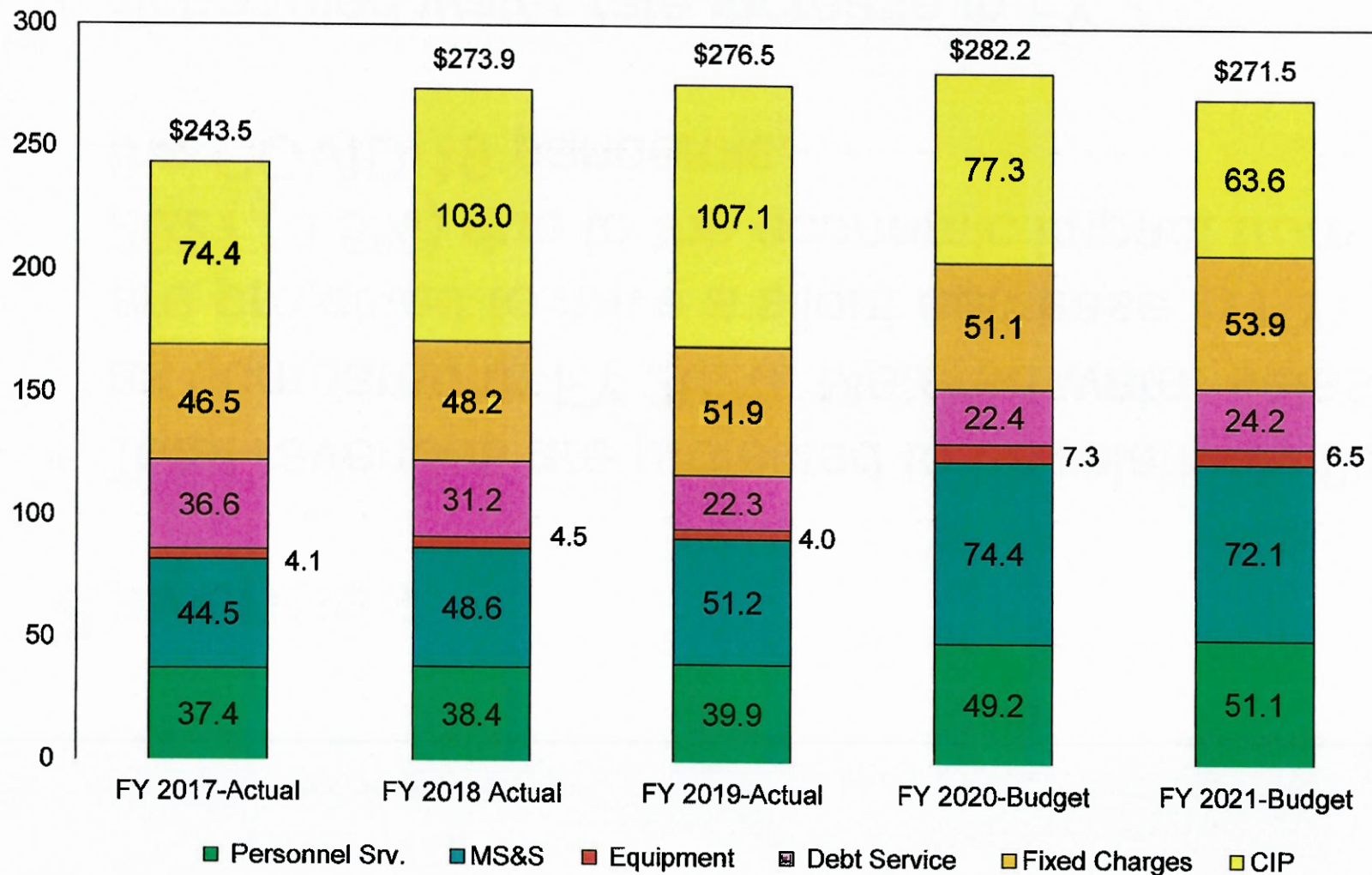
# WATER FOR LIFE

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Board of Water Supply  
City and County of Honolulu

## Operating Fund Expenditures in millions





## Revenues

- Total revenues are projected to be relatively flat as compared to FY 2020. Metered water sales are projected to have a slight decrease in FY 2021 (0.5%) due to the economic impact from the COVID 19 pandemic.
- Scheduled water rate increase in FY 2021



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Board of Water Supply  
City and County of Honolulu

# Revenue Projections FY 2021

Revenue Sources	FY 2019 Actual	FY 2020 Budget	FY 2021 Budget	% Change
Metered Sales				
Potable & Non-Potable Water	\$220,236,905	\$231,056,500	\$230,000,000	-0.5%
Recycled Water	\$6,645,794	\$6,275,300	\$6,361,000	1.4%
Other Revenues	\$8,681,331	\$8,905,100	\$8,728,300	-2.0%
<b>TOTAL REVENUES</b>	<b>\$235,564,030</b>	<b>\$246,236,900</b>	<b>\$245,089,300</b>	<b>-0.5%</b>





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Board of Water Supply  
City and County of Honolulu

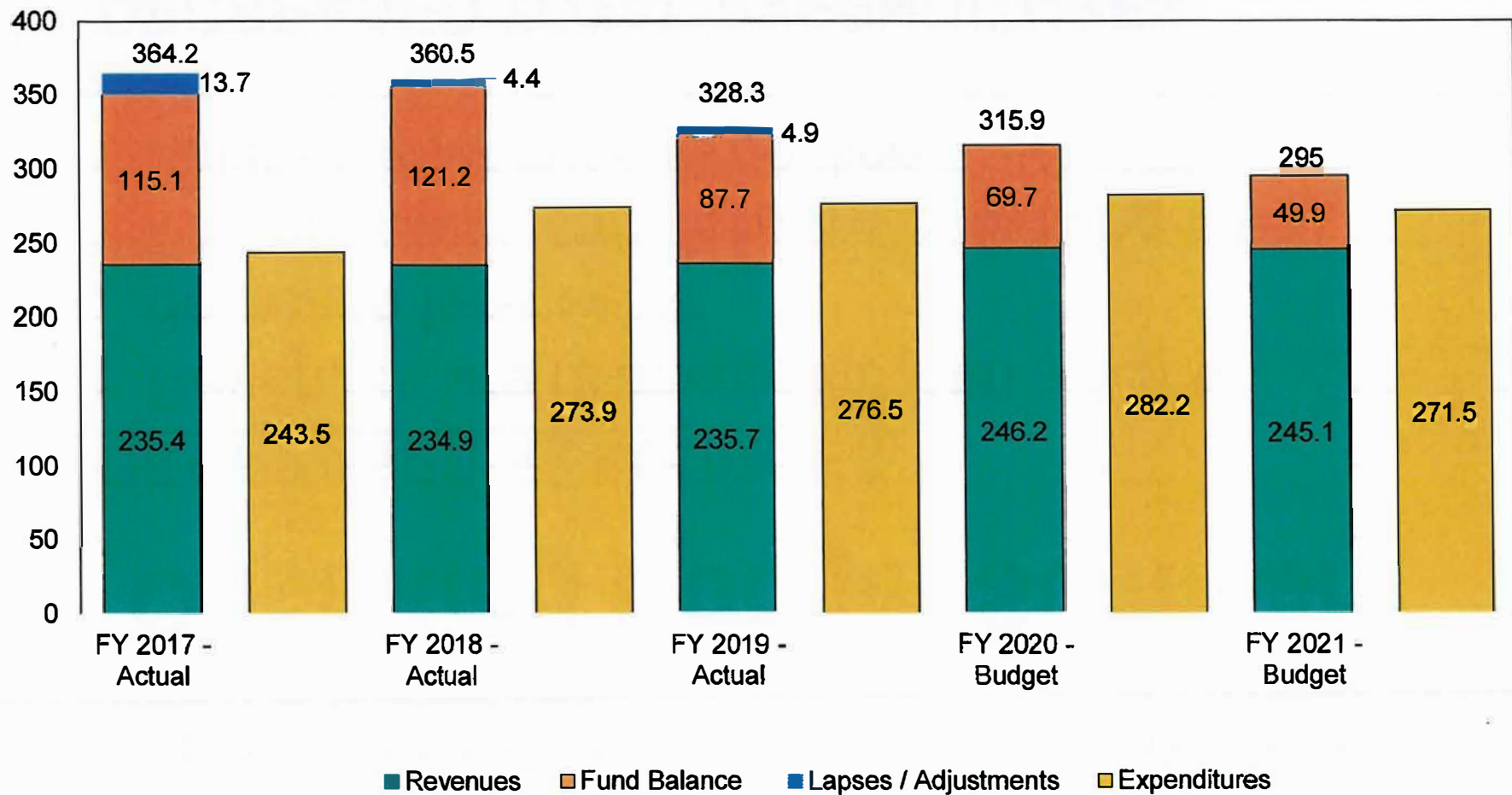
# Ten Largest Users as of June 30, 2019

Ten Largest Users of System (As of June 30, 2019)				
Name	Estimated Revenues	Percentage of Total Revenue	Annual Water Sales (Thous. Gal)	Percentage of Total Sales
State of Hawaii	\$13,989,289	6.1%	2,881,813	6.1%
City & County of Honolulu	12,132,543	5.3%	3,459,473	7.3%
United States Government	5,991,267	2.6%	1,206,734	2.5%
Hilton Hotels Corporation	1,683,031	0.7%	336,950	0.7%
Island Energy Services, LLC	1,067,172	0.5%	215,053	0.5%
Marriott Resorts & Spas	930,053	0.4%	198,863	0.4%
GGP Ala Moana LLC (Ala Moana Shopping Center)	884,369	0.4%	178,000	0.4%
Tesoro Hawaii Corp (Par Petroleum)	797,449	0.3%	133,000	0.3%
Kalaeloa Partners LP	768,508	0.3%	141,625	0.3%
Sheraton Hotels Hawaii	706,004	0.3%	142,244	0.3%
<b>Total</b>	<b>\$38,949,686</b>	<b>17.1%</b>	<b>8,893,755</b>	<b>18.7%</b>



## Total Resources vs. Total Expenditures

in millions





# Operating Budget Summary

## **DECREASED RESOURCES**

- Revenues are relatively flat with a 0.5% decrease forecasted
- The projected carryforward/beginning fund balance continues to decline

## **DECREASED TOTAL EXPENDITURES**

- Annual operating expenditures were held almost flat with only a 1.7% increase
- Operating Funded CIP projects decreased





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**Board of Water Supply**  
City and County of Honolulu

A large, semi-transparent image of a modern water treatment facility with large glass windows and a pool of water in the foreground. The text is overlaid on this image.

# **FY 2021 Capital Improvement Program Budget**





## FY 2021 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, Division Goals and Objectives, and the Six-Year Capital Improvement Program





# WATER FOR LIFE

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Board of Water Supply  
City and County of Honolulu

Water Service  
Adequacy & Dependability

Infrastructure Costs  
Rate Affordability



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**Board of Water Supply**  
City and County of Honolulu

## **Project Categories**

Research and Development

Renewal and Replacement

Capacity Expansion





# WATER FOR LIFE

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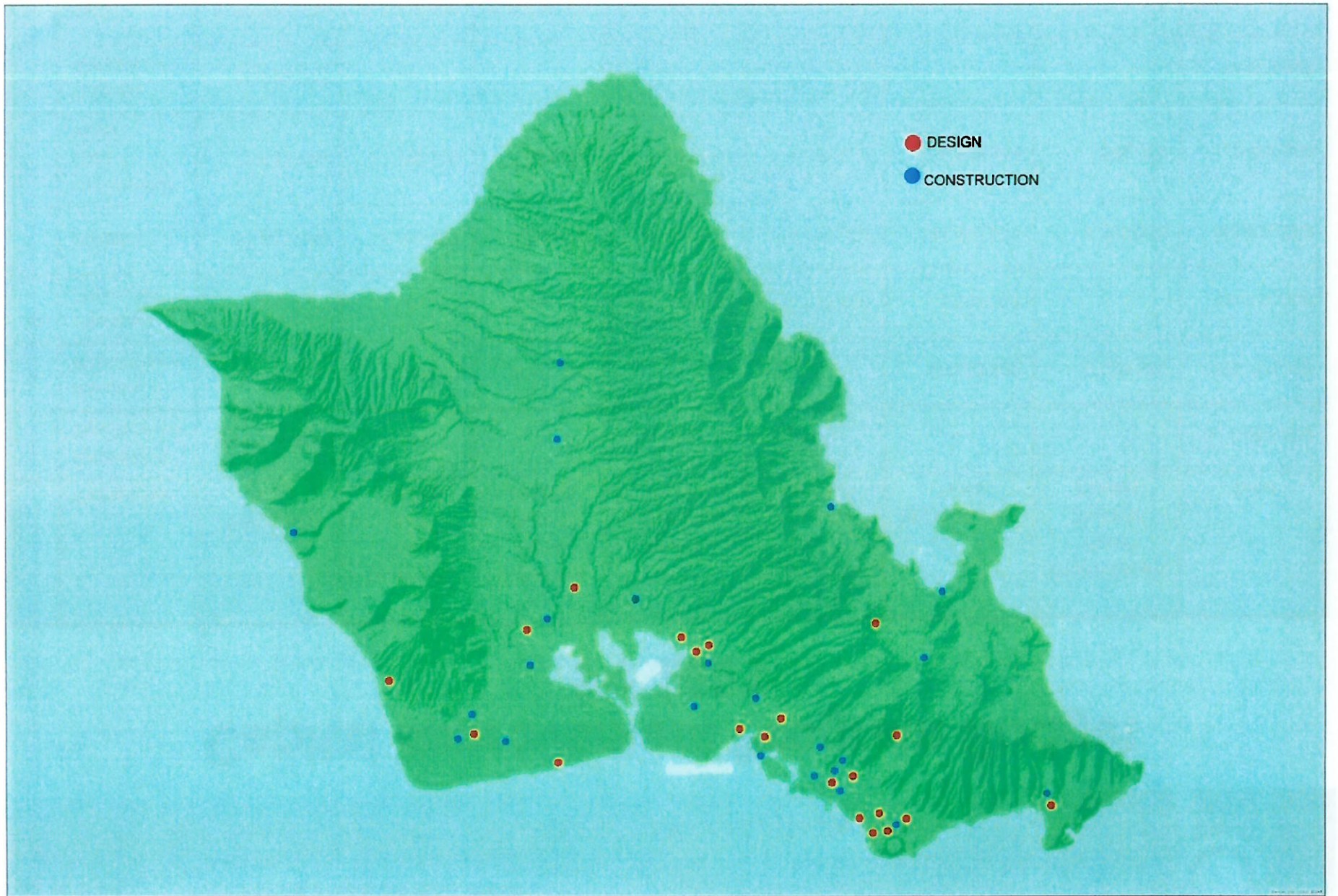


Board of Water Supply  
City and County of Honolulu

## Capital Improvement Program Budget FY 2021

	Categories	Operating Fund	Operating Fund (SRF Eligible)	Operating Fund (Federal Funds)	Special Expendable Fund	Special Expendable Fund (Federal Funds)	Improvement Fund	Improvement Fund (Federal Funds)	Total
I.	Research & Development	\$ 2,660,000	---		---		---		\$ 2,660,000
II.	Renewal & Replacement	32,975,000	3,100,000	6,300,000	---		60,850,000	2,500,000	105,725,000
III.	Capacity Expansion	---	---	---	20,050,000	10,700,000	3,500,000		34,250,000
	Subtotal	35,635,000	3,100,000	6,300,000	20,050,000	10,700,000	64,350,000	2,500,000	142,635,000
	Construction Cost Index	2,652,500	310,000	630,000	1,700,000	1,070,000	5,880,000	250,000	12,492,500
	Contract Adjustment	15,000,000	---		---		---		15,000,000
	Total	\$ 53,287,500	\$ 3,410,000	\$ 6,930,000	\$ 21,750,000	\$ 11,770,000	\$ 70,230,000	\$ 2,750,000	\$ 170,127,500









## Project Category Highlights

### **Research and Development (\$2.66 million)**

- Construction Management for Various BWS Construction Projects
- Kunia Wells IV Exploratory Wells
- Manoa Well II Exploratory Well
- Waikele Gulch Exploratory Well Environmental Assessment





## Project Category Highlights

### Renewal and Replacement (\$105.73 million)

- Waihee Line Booster: Replace Pumping Units
- Mariner's Ridge Booster No. 2 Renovation
- Kunia Wells III Renovation
- Kapaa 272 Reservoir Replacement

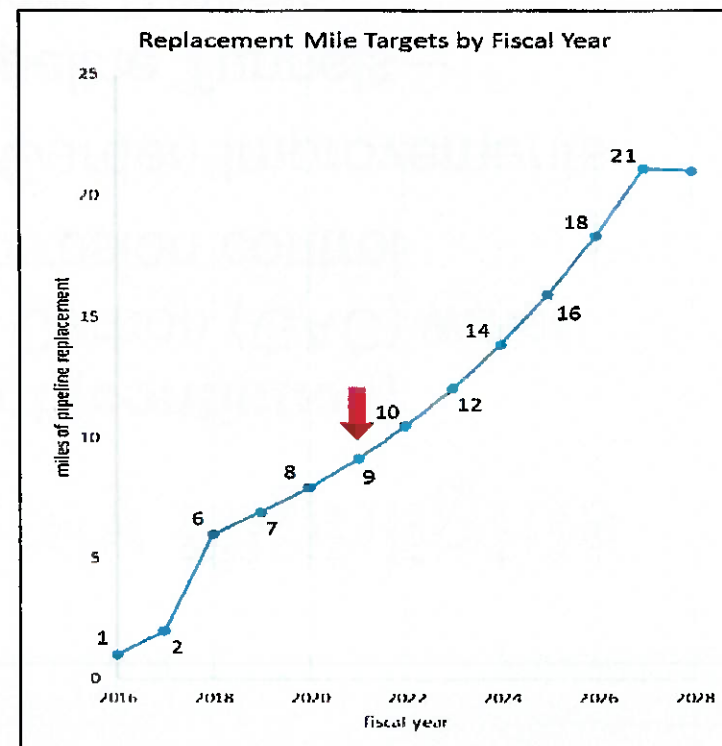




## Project Category Highlights

### Renewal and Replacement (continued)

- Main replacement construction in Wahiawa, Pearl City, Waianae and Kailua – **10.4 miles**
- Main replacement design in various locations including Kaimuki, Kapahulu, Hawaii Kai, and Ewa – **8.3 miles**







## Project Category Highlights

### Renewal and Replacement (continued)

- Granular Activated Carbon (GAC) water treatment facility corrosion control
- Halawa Xeriscape Garden Improvements
- Rehabilitation of Pipeline Tunnels – Keanu and Fort Ruger Tunnels







## Project Category Highlights

### Renewal and Replacement (continued)



- Facility Reroofing, Repair and Renovations
- Security Improvements at Various Locations
- Beretania Public Service Building Exterior Improvements







## Project Category Highlights

### Capacity Expansion (\$34.25 million)

- Kalawahine 180 2.0 MG Reservoir
- Water main upsizing in collaboration with City and State in Salt Lake and Sand Island
- Kapolei Base Yard Facility



**WATER FOR LIFE**

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**Board of Water Supply**  
City and County of Honolulu

**Questions?**



# **BOARD OF WATER SUPPLY**

City and County of Honolulu  
Honolulu, Hawaii



## **2021 BUDGET**

For the Fiscal Year Beginning July 1, 2020 and  
Ending June 30, 2021

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

**OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET  
For the Fiscal Year Beginning July 1, 2020 and Ending June 30, 2021**

**BOARD MEMBERS**

Bryan P. Andaya, Chair

Kapua Sproat, Vice-Chair

Kay C. Matsui, Member

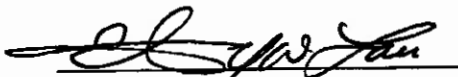
Ray C. Soon, Member

Max J. Sword, Member

Ross S. Sasamura, Ex-Officio

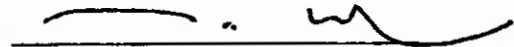
Jade T. Butay, Ex-Officio

SUBMITTED BY:



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

APPROVED:



BRYAN P. ANDAYA, Chair  
May 26, 2020



May 26, 2020

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, 2020 to June 30, 2021.

### **FINANCIAL PLAN**

The proposed Operating Budget for FY 2021 is based upon total operating fund resources of \$295 million, to be derived from operating revenues of \$245.1 million and an estimated carryover balance from FY 2020 of \$49.9 million. The carryover balance results from the estimated operating fund balance that is unappropriated

The proposed operating fund expenditure allocations are \$207.8 million for operating expenses and \$63.6 million for the Capital Improvement Program (CIP) budget. A projected ending balance of \$23.6 million will be unappropriated.

The proposed CIP budget totals \$170.1 million and is funded by \$63.6 million from the Operating Fund<sup>1</sup>; \$73 million from the Improvement Fund<sup>2</sup> and \$33.5 million from the Special Expendable Fund<sup>3</sup>. Of the \$63.6 million in Operating Funds proposed for the CIP, \$3.4 million is eligible for participation in the State of Hawaii, Department of Health State Revolving Fund (SRF) loan program and \$6.9 million is eligible for participation in Federal funding<sup>4</sup>. Of the \$73 million in CIP projects that will be funded through the Improvement Fund<sup>2</sup>, \$2.7 million is eligible for participation in Federal funding<sup>4</sup> and of the \$33.5 million in Special Expendable Funds<sup>3</sup> proposed for the CIP, \$11.8 million is eligible for participation in Federal funding<sup>4</sup>.

<sup>1</sup>"Operating Fund" is defined as rate revenue or cash

<sup>2</sup>"Improvement Fund" is defined as the proceeds of Water System Revenue Bonds

<sup>3</sup>"Special Expendable Fund" is a restricted fund in which water system facilities charges are deposited and the funding reserved for water system expansion projects.

<sup>4</sup>"Federal funding" is defined as potential federal stimulus funds that may be released to stimulate the economy as it is impacted by the COVID-19 global health pandemic.

## **PART I. OPERATING BUDGET**

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

### **A. REVENUES**

For FY 2021, we are projecting total revenues of \$245.1 million; which is \$1.1 million or 0.5 percent less than total revenues budgeted for FY 2020.

Revenue Sources	FY 2019 Actual	FY 2020 Budget	FY 2021 Budget	Percent Change FY 2021 over FY 2020
Metered Sales				
Portable and Non-Potable Water	220,236,905	231,056,500	230,000,000	-0.5%
Recycled Water	6,645,794	6,275,300	6,361,000	1.4%
Other Revenues	8,681,331	8,905,100	8,728,300	-2.0%
Total Revenues	<u>235,564,030</u>	<u>246,236,900</u>	<u>245,089,300</u>	<u>-0.5%</u>

### **Metered Sales – Potable Water and Non-Potable**

Potable and non-potable water sales are projected to decrease by \$1.1 million or 0.5 percent less than the FY 2020 budget amount of \$231.1 million. This decrease is primarily due to the economic impacts from the COVID-19 pandemic.

**Metered Sales – Recycled Water**

Recycled water sales at \$6.4 million are projected to increase by 1.4 percent when compared to the FY 2020 budget. This increase is due to a scheduled rate adjustment in FY 2021 and an expected increase in consumption due to additional customers.

**Other Revenues**

Other Revenues of \$8.7 million will be \$0.2 million lower than the FY 2020 budget amount due to an anticipated decrease in interest income of \$176 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 fund expenditures for FY 2021 are budgeted at \$271.5 million. This represents a decrease of \$10.8 million, or 3.8 percent less than the amount budgeted for the current fiscal year. This change is attributable to a decrease in cash funding the Capital Improvement Program of \$13.7 million and a decrease in funding for materials, supplies and services of \$2.4 million. These decreases are offset primarily by an increase in funding the departments fixed charges of \$2.8 million; an increase in funding for debt service of \$1.8 million and an increase in funding the departments personnel services of \$1.8 million.

Highlights of the proposed Operating Budget for FY 2021 are presented following the next table.

**Summary of Proposed Operating Budget, by Major Cost Categories**

<u>Major Cost Category</u>	<u>FY 2019 Actual</u>	<u>FY 2020 Budget</u>	<u>FY 2021 Budget</u>	<u>FY 2021 over FY 2020 Amount</u>	<u>Percent</u>
Personnel Services	39,905,890	49,266,363	51,061,230	1,794,867	3.6%
Materials, Supplies & Services	51,196,320	74,442,975	72,085,907	-2,357,068	-3.2%
Equipment	4,014,558	7,260,800	6,578,800	-682,000	-9.4%
Debt Service	22,340,818	22,382,000	24,214,000	1,832,000	8.2%
Fixed Charges	51,974,491	51,108,000	53,909,000	2,801,000	5.5%
Total Operating Expenditures	169,432,077	204,460,138	207,848,937	3,388,799	1.7%
Transfer to the Special Expendable Fund - Affordable & Homeless Housing Waiver Program*	-	500,000	-	(500,000)	-100.0%
Transfer to the CIP Program	107,076,772	77,355,000	63,627,500	(13,727,500)	-17.7%
Total Expenditures	276,508,849	282,315,138	271,476,437	(10,838,701)	-3.8%

\*Note: The \$500,000 transfer from the Operating Fund to the Special Expendable Fund was an estimated figure and does not represent the cost of the Affordable & Homeless Housing Waiver Program.

In FY2019, \$103,432.03 of Fees to the Special Expendable Fund were waived and \$55,632.00 of meter installation fees were waived by the Operating Fund and not recovered.

In FY2020 (to date), \$489,770.41 of Fees to the Special Expendable Fund were waived and \$56,808.00 of meter installation fees were waived by the Operating Fund and not recovered.

### **Personnel Services**

The proposed personnel services budget of \$51.1 million is \$1.8 million or 3.6 percent more than personnel services budgeted for the current year. The proposed operating budget includes the creation of one (1) position that is needed to undertake new initiatives. This new position is being offset by the abolishment of an existing position, which is no longer needed. The departmental staffing levels remains at 741 authorized positions. The one new position proposed is a:

(1) Microbiologist I

The one position to be abolished is a:

(1) Senior Clerk-Typist

### **Materials, Supplies and Services (MS&S)**

The proposed MS&S budget of \$72.1 million is \$2.4 million or 3.2 percent less than the expenditures budgeted for the current year. This is primarily due to a decrease in funding for emergency and contracted road repairs of \$1.7 million; a decrease in funding for AMR (Automated Meter Reading) materials and supplies of \$1.5 million; a decrease in funding for a drinking water system risk assessment study of \$1 million; a decrease in funding for CIS consulting services of \$325 thousand; a decrease in funding for a document management system of \$390 thousand; a reduction in funding for contractual services for the maintenance of the wireless system and reduced funding for the electronic security systems of \$230 thousand. These decreases were offset by an increase in funding for sanitary survey inspection services of \$1 million and an increase in funding for the Beretania Redevelopment Project of \$1.2 million.



### **Equipment**

The proposed equipment budget of \$6.6 million is \$682 thousand or 9.4 percent less than the amount budgeted in FY 2020. This change is due to the deferred purchase of some replacement and new vehicles and equipment.

### **Debt Service**

The total debt service requirement for FY 2021 is \$24.2 million, which is \$1.8 million or 8.2 percent more than the amount budgeted in FY 2020. In FY 2021, payments to the State of Hawaii/Department of Health State Revolving Fund (SRF) loan program is scheduled to increase by \$1.5 million.

### **Fixed Charges**

The proposed fixed charges budget of \$53.9 million is \$2.8 million, or 5.5 percent more than the amount budgeted for FY 2020. This increase of \$2.8 million is due to an increase of \$2.1 million for electricity costs to power the department's pumping stations, reservoirs and facilities; and an increase in funding of \$660 thousand to the State Employer-Union Trust Fund (EUTF) and Other Post-Employment Benefits (OPEB) plan.

## **PART II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET**

A CIP budget of \$170.1 million is proposed for FY 2021 to be funded as follows: Operating Fund<sup>1</sup> -- \$63.6 million; Improvement Fund<sup>2</sup> -- \$73 million and the Special Expendable Fund<sup>3</sup> -- \$33.5 million. Of the \$63.6 million in CIP projects that will be funded through the Operating Fund<sup>1</sup>; \$3.4 million is eligible for participation in the State Department of Health's State Revolving Fund (SRF) loan program and \$6.9 million is eligible for participation for Federal funding<sup>4</sup>. Of the \$73 million in CIP projects that will be funded through the Improvement Fund<sup>2</sup>, \$2.7 million is eligible for Federal funding<sup>4</sup>. Of the \$33.5 million in Special Expendable Funds<sup>3</sup> proposed for the CIP, \$11.8 million is eligible for participation in Federal funding<sup>4</sup>.

<sup>1</sup>"Operating Fund" is defined as rate revenue or cash

<sup>2</sup>"Improvement Fund" is defined as the proceeds of Water System Revenue Bonds

<sup>3</sup>"Special Expendable Fund" is a restricted fund in which water system facilities charges are deposited and the funding reserved for water system expansion projects.

<sup>4</sup>"Federal funding" is defined as potential federal stimulus funds that may be released to stimulate the economy as it is impacted by the COVID-19 global health pandemic.

Highlights of the proposed CIP for next year includes \$2.7 million for research and development, \$105.7 million for the renewal and replacement of various BWS pipelines, facilities and pumping stations, and \$34.3 million for capacity expansion. The CIP cost categories and project descriptions are summarized starting on page CIP-SUMM.

**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 at June 30, 2019 was \$100,302,557. The Special Expendable fund is being used to fund \$23.7 million of CIP expansion projects in FY 2020 and \$33.5 million of CIP expansion projects in FY 2021. The following table represents the deposits to the Special Expendable fund in Fiscal Years 2018 and 2019:

**Breakdown of Water System Facilities Charges**

Fiscal Year	Resource	Transmission	Storage	Total
2018	4,206,000	1,967,000	3,015,000	\$ 9,188,000
2019	2,783,540	1,313,586	2,330,572	\$ 6,427,698

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. To date the program has waived these fees and charges for 480 units. This equates to \$705,642.44 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,

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



# **SUMMARY OF ALL FUNDS**

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**OPERATING BUDGET**

**CAPITAL IMPROVEMENT  
PROGRAM BUDGET**

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**Board of Water Supply  
Summary of All Funds  
Fiscal Year 2021**

	Operating Fund - SRF Eligible	Operating Fund - Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal Funds	Improvement Fund	Improvement Fund - Federal Funds	Total - All Funds
Operating Fund							

Operating Budget	207,848,937	-	-	-	-	-	-	207,848,937
------------------	-------------	---	---	---	---	---	---	-------------

Capital Improvement Program	53,287,500	3,410,000	6,930,000	21,750,000	11,770,000	70,230,000	2,750,000	170,127,500
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Total - All Funds	<u>261,136,437</u>	<u>3,410,000</u>	<u>6,930,000</u>	<u>21,750,000</u>	<u>11,770,000</u>	<u>70,230,000</u>	<u>2,750,000</u>	<u>377,976,437</u>
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**BOARD OF WATER SUPPLY  
OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET  
FISCAL YEAR 2021  
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**II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET**

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**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**Department Summary**

<b>Resources and Expenditures</b>	<b>FY2019 Actual</b>	<b>FY2020 Adopted Budget</b>	<b>FY2021 Proposed Budget</b>
<b>Beginning Balance</b>	<b>87,668,483</b>	<b>69,658,009</b>	<b>49,908,250</b>
Revenues	235,705,749	246,236,900	245,091,300
<b>Lapses/Adjustments</b>	<b>4,910,020</b>	<b>0</b>	<b>0</b>
<b>Total Resources</b>	<b>328,284,252</b>	<b>315,894,909</b>	<b>294,999,550</b>
Operating Expenditures	169,432,076	204,460,138	207,848,937
<b>Capital Program</b>	<b>107,076,772</b>	<b>77,355,000</b>	<b>63,627,500</b>
Transfer to Special Expendable Fund	0	500,000	0
<b>Total Expenditures</b>	<b>276,508,848</b>	<b>282,315,138</b>	<b>271,476,437</b>
<b>Ending Balance</b>	<b>51,775,403</b>	<b>33,579,772</b>	<b>23,523,113</b>

**Board of Water Supply**  
**Operating Budget Revenues**  
**Fiscal Year 2021**

**Department Summary**

<b>Revenues</b>	<b>FY2019 Actual</b>	<b>FY2020 Adopted Budget</b>	<b>FY2021 Proposed Budget</b>
Metered Revenue - Potable Water	220,236,905	231,056,500	230,000,000
Metered Revenue - Recycled Water (R-1)	3,370,021	3,389,800	3,347,000
Metered Revenue - Recycled Water (RO)	3,275,773	2,885,500	3,014,000
Private Fire Protection	670,834	692,000	692,000
Ocean Cooling Revenues	1,220,922	1,353,100	1,354,000
Other Water Revenues	209,578	320,000	320,000
Revenues from Water Service Installations	511,960	550,000	550,000
Revenues from Merchandising & Jobbing (M&J)	332,916	280,000	280,000
Interest Income - Operating	5,493,165	5,340,000	5,164,300
Miscellaneous Non-Operating Revenue	149,691	120,000	120,000
Non-Operating Rental Income	233,982	250,000	250,000
<b>Total</b>	<b>235,705,749</b>	<b>246,236,900</b>	<b>245,091,300</b>



**Board of Water Supply**  
**Operating Budget Expenditures**  
**Fiscal Year 2021**

**Department Summary**

<b>Expenditure Classification</b>	<b>FY2019 Actual</b>	<b>FY2020 Adopted Budget</b>	<b>FY2021 Proposed Budget</b>
Personnel Services	39,905,890	49,266,363	51,061,230
Materials, Supplies and Services	51,196,320	74,442,975	72,085,907
Equipment	4,014,558	7,260,800	6,578,800
Departmental Fixed Charges	51,974,491	51,108,000	53,909,000
Debt Service	22,340,818	22,382,000	24,214,000
<b>Operating Expenditures</b>	<b>169,432,076</b>	<b>204,460,138</b>	<b>207,848,937</b>
Transfer to Capital Improvement Program	107,076,772	77,355,000	63,627,500
Transfer to Special Expendable Fund	0	500,000	0
<b>Total Expenditures</b>	<b>276,508,848</b>	<b>282,315,138</b>	<b>271,476,437</b>

**Board of Water Supply**  
**Operating Budget Expenditures**  
**Fiscal Year 2021**

**Department Summary by Division/Office**

<b>Expenditure Classification (Personnel Services, Materials, Supplies and Services, and Equipment)</b>	<b>FY2019 Actual</b>	<b>FY2020 Adopted Budget</b>	<b>FY2021 Proposed Budget</b>
Manager's Office	904,071	854,240	1,071,450
Executive Support Office	7,452,165	8,486,451	8,692,737
Communications Office	1,207,494	1,446,687	1,301,677
Human Resources Office	627,784	782,050	808,600
Water Quality	7,238,850	10,235,950	12,221,600
Customer Care	4,053,550	5,623,140	5,691,805
Land	353,539	820,600	1,769,340
Water Resources	9,892,281	15,661,587	14,161,619
Field Operations	23,929,027	36,257,750	34,534,815
Capital Projects	6,799,830	7,531,000	7,710,500
Water System Operations	14,749,615	21,951,050	20,447,800
Information Technology	13,597,563	16,178,733	15,503,294
Finance	4,299,147	5,140,900	5,810,700
<b>Total of Divisions and Offices</b>	<b>95,104,916</b>	<b>130,970,138</b>	<b>129,725,937</b>
Materials, Supplies and Services	11,852	0	0
Departmental Fixed Charges	51,974,491	51,108,000	53,909,000
Debt Service	22,340,818	22,382,000	24,214,000
<b>Total Operating Expenditures</b>	<b>169,432,076</b>	<b>204,460,138</b>	<b>207,848,937</b>

**Board of Water Supply  
Expenses by Account Type  
Fiscal Year 2021**

**Department Summary by Division/Office**

<b>Division and Offices</b>	<b>Personnel Services</b>	<b>Materials, Supplies, and Services</b>	<b>Equipment</b>	<b>Debt Service and Dept Fixed Charges</b>	<b>FY2021 Proposed Budget</b>
Manager's Office	621,100	450,350	0	0	1,071,450
Executive Support Office	1,259,638	7,408,099	25,000	0	8,692,737
Communications Office	854,600	447,077	0	0	1,301,677
Human Resources Office	586,000	221,100	1,500	0	808,600
Water Quality	2,247,000	9,941,600	33,000	0	12,221,600
Customer Care	4,595,900	1,085,905	10,000	0	5,691,805
Land	309,600	1,459,740	0	0	1,769,340
Water Resources	2,652,892	11,418,727	90,000	0	14,161,619
Field Operations	18,344,500	16,085,315	105,000	0	34,534,815
Capital Projects	5,416,300	2,044,200	250,000	0	7,710,500
Water System Operations	7,414,000	7,304,500	5,729,300	0	20,447,800
Information Technology	4,118,900	11,049,394	335,000	0	15,503,294
Finance	2,640,800	3,169,900	0	0	5,810,700
<b>Total:</b>	<b>51,061,230</b>	<b>72,085,907</b>	<b>6,578,800</b>	<b>0</b>	<b>129,725,937</b>
Fixed Charges and Debt Service	0	0	0	78,123,000	78,123,000
<b>Grand Total</b>	<b>51,061,230</b>	<b>72,085,907</b>	<b>6,578,800</b>	<b>78,123,000</b>	<b>207,848,937</b>

**Board of Water Supply  
Position Budgets  
Fiscal Year 2021**

**Department Summary by Division/Office**

Division Name	Positions				Salary			
	Perm	LTA	PSC	Total	Perm	LTA	PSC	Total
Manager's Office	5.0	0.0	1.0	6.0	535,117	0	85,000	620,117
Executive Support Office	20.0	0.0	7.5	27.5	1,120,840	0	107,273	1,228,113
Communications Office	12.0	0.0	0.0	12.0	779,768	0	0	779,768
Human Resources Office	10.0	0.0	0.0	10.0	580,996	0	0	580,996
Water Quality	30.0	0.0	3.0	33.0	1,758,957	0	97,896	1,856,853
Customer Care	71.0	2.0	11.0	86.0	3,506,231	68,040	378,321	4,028,865
Land	5.0	0.0	0.0	5.0	285,336	0	0	285,336
Water Resources	35.0	0.0	2.0	37.0	2,445,652	0	48,540	2,494,193
Field Operations	258.0	0.0	12.0	270.0	14,296,612	0	584,136	14,880,748
Capital Projects	81.0	0.0	1.0	82.0	4,914,639	0	9,880	4,924,519
Water System Operations	106.0	0.0	10.0	116.0	6,489,720	0	101,340	6,591,060
Information Technology	54.0	0.0	7.0	61.0	3,705,909	0	230,748	3,936,657
Finance	43.0	9.0	0.0	52.0	2,267,411	225,718	0	2,493,129
<b>Total</b>	<b>730.0</b>	<b>11.0</b>	<b>54.5</b>	<b>797.5</b>	<b>42,687,186</b>	<b>293,758</b>	<b>1,643,134</b>	<b>44,700,353</b>

Board of Water Supply  
Operating Budget  
Debt Service  
Fiscal Year 2021

DEBT SERVICE

ISSUE	FY 2019 Actual	FY 2020 Budget	FY 2021 Budget
Water System Revenue Bonds:			
Series 2012A	3,589,425	7,703,000	10,092,000
Series 2014 A & B	5,466,373	10,157,000	7,837,000
Debt Service - Bonds Payable	9,055,798	17,860,000	17,929,000
Notes Payable:			
SRF Loans	3,843,991	4,522,000	6,285,000
Debt Service - Notes Payable	3,843,991	4,522,000	6,285,000
Total	12,899,789	22,382,000	24,214,000

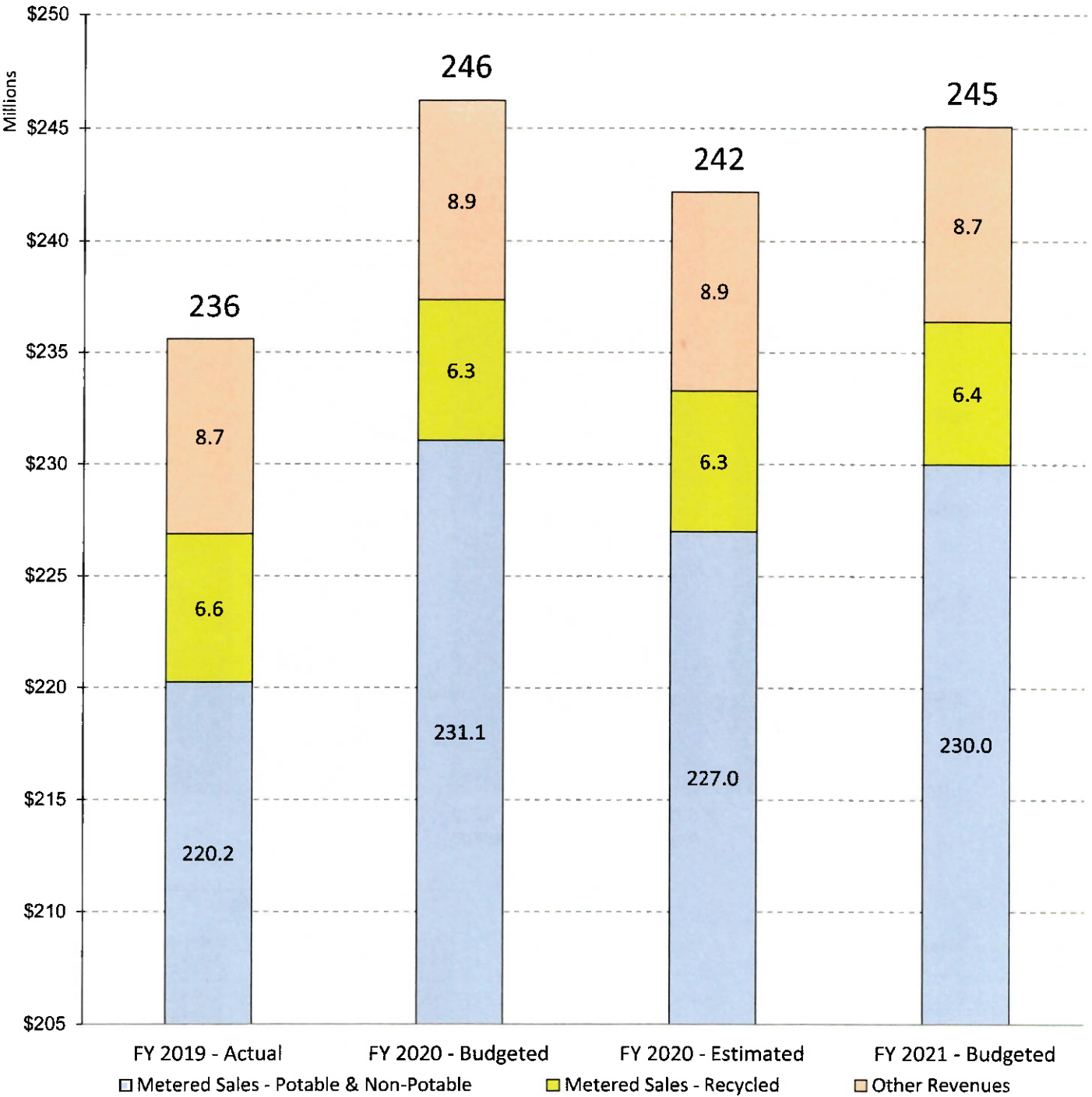
Bond Issues:

<u>Year Issued</u>	<u>Amount</u>	<u>Year Expires</u>	<u>Years</u>
2012A	\$ 27,115,000	2033	21
2014A	\$ 101,655,000	2036	22
2014B	\$ 25,085,000	2031	17
2020A	\$ 59,105,000	2050	30
2020B	\$ 47,530,000	2050	30

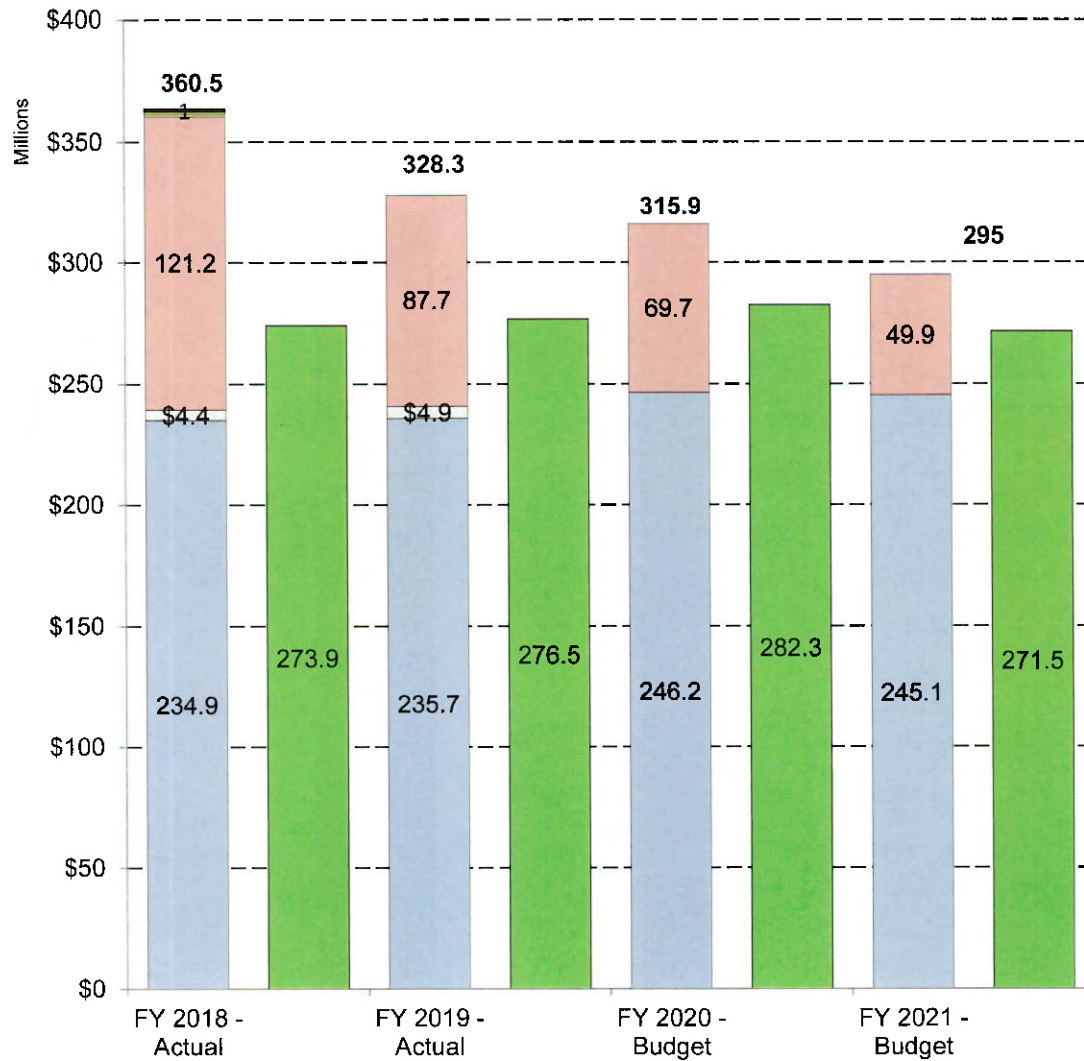


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**BOARD OF WATER SUPPLY  
OPERATING FUND REVENUES  
FISCAL YEAR 2021**



**BOARD OF WATER SUPPLY  
TOTAL RESOURCES VS. TOTAL EXPENDITURES  
FISCAL YEAR 2021**



Revenues

Lapses / Adjustments

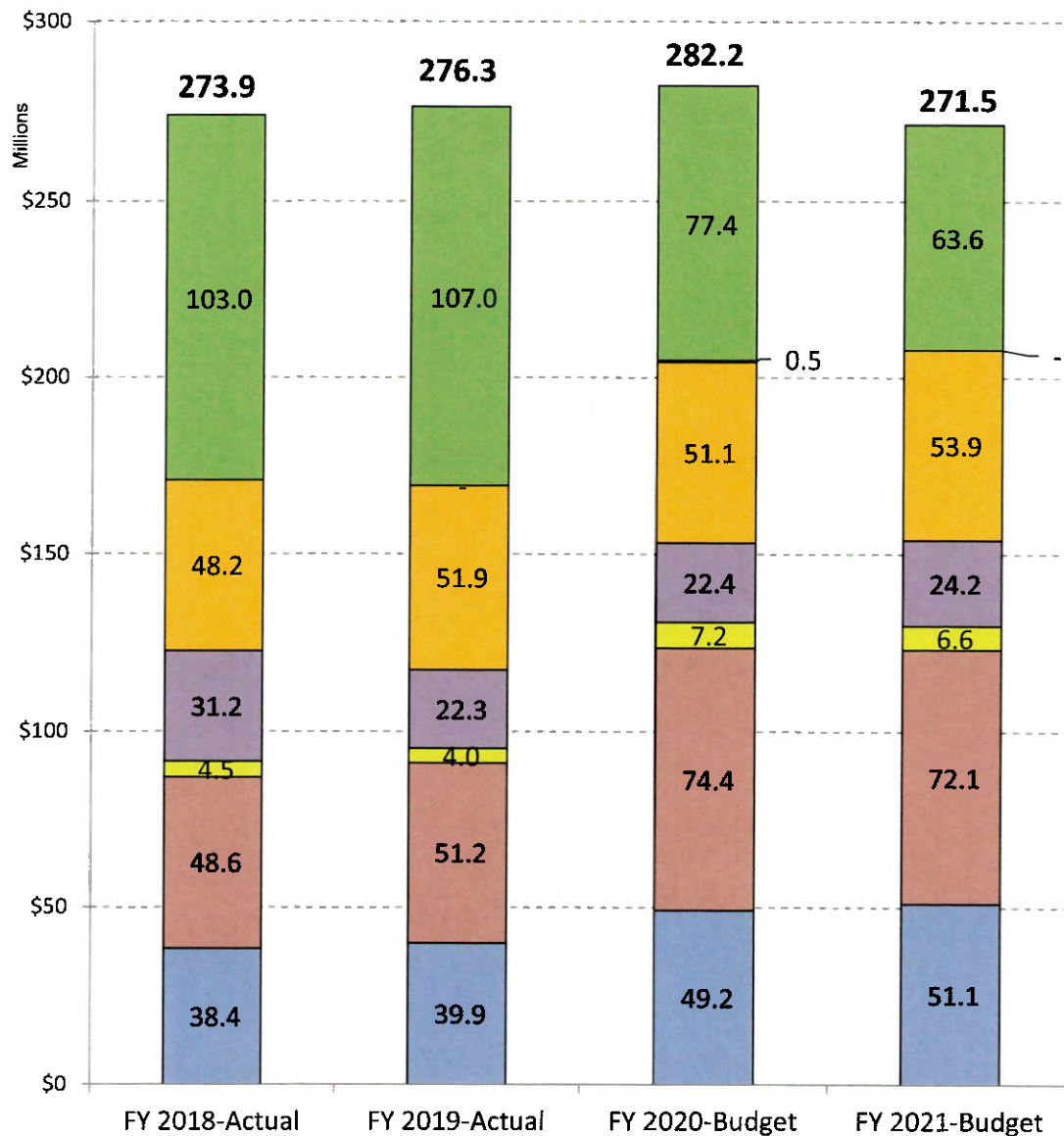
Fund Balance

Expenditures

**Fiscal Year 2021**

Fund Balance 7/1/2020	\$ 49,908,250
Revenues	245,091,300
Total Resources	\$294,999,550
Total Expenditures	-271,476,437
Fund Balance 6/30/2021	<u>\$ 23,523,113</u>

**BOARD OF WATER SUPPLY  
OPERATING BUDGET EXPENDITURES (INCLUDING CIP)  
FISCAL YEAR 2021**



- Personnel Srv.
- MS&S
- Equipment
- Debt Service
- Fixed Charges
- Waivers-Sp. Ex. Fund
- CIP

Fiscal Year 2021	
CIP	\$ 63,627,500
Fixed Charges	53,909,000
Debt Service	24,214,000
Equipment	6,578,800
MS&S	72,085,907
Personnel Svcs.	51,061,230
Transfer to Spec Ex	-0-
<b>Total</b>	<b>\$271,476,437</b>

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# **PART I**

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# **OPERATING BUDGET**



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**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**OMCE - Manager's Office**

**Section'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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	647,873	540,400	495,000	620,100	125,100
4120 - Overtime	736	0	0	1,000	1,000
4130 - Miscellaneous (Payroll)	147	0	0	0	0
<b>Personnel Services</b>	<b>648,756</b>	<b>540,400</b>	<b>495,000</b>	<b>621,100</b>	<b>126,100</b>
4160 - Meals, Mileage & Uniform Allowances	22	0	0	0	0
4250 - Other Contractual Services	3,714	4,600	4,600	4,600	0
4255 - Other Services	2,346	57,000	58,800	31,300	(27,500)
4260 - Advertising & Publication of Notices	15,571	500	500	500	0
4265 - Printing	0	1,000	1,000	1,000	0
4270 - Professional Services	30,915	35,000	35,000	135,000	100,000
4430 - Miscellaneous Supplies	4,197	5,000	5,000	5,000	0
4460 - Other Materials & Supplies	31,342	10,000	10,000	10,000	0
4480 - Postage	0	0	0	0	0
4500 - Education and Training	900	0	0	0	0
4720 - Conference Travel & Expenses	25,250	38,240	38,240	49,240	11,000
4815 - Repair & Maint - Equipment	1,265	3,000	3,000	3,000	0
4910 - Miscellaneous Fees & Registration	138,644	184,220	203,100	210,710	7,610
8050 - Equipment (under \$5,000)	1,152	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>255,316</b>	<b>338,560</b>	<b>359,240</b>	<b>450,350</b>	<b>91,110</b>
<b>Total Manager's Office</b>	<b>904,071</b>	<b>878,960</b>	<b>854,240</b>	<b>1,071,450</b>	<b>217,210</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**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, administers the department's safety, risk management, and security programs.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	1,087,856	1,409,800	1,310,700	1,228,100	(82,600)
4120 - Overtime	23,455	20,000	21,500	31,538	10,038
4130 - Miscellaneous (Payroll)	21,070	83,750	25,000	0	(25,000)
<b>Personnel Services</b>	<b>1,132,381</b>	<b>1,513,550</b>	<b>1,357,200</b>	<b>1,259,638</b>	<b>(97,562)</b>
4160 - Meals; Mileage & Uniform Allowances	1,374	2,700	1,500	1,500	0
4250 - Other Contractual Services	17,189	52,240	2,250,399	2,379,399	129,000
4251 - Software Licenses and Maintenance	31,204	36,000	38,000	30,000	(8,000)
4260 - Advertising & Publication of Notices	0	300	0	0	0
4265 - Printing	0	1,500	1,000	850	(150)
4270 - Professional Services	2,451,983	2,592,000	1,520,000	1,489,200	(30,800)
4430 - Miscellaneous Supplies	49,953	10,050	34,272	14,800	(19,472)
4460 - Other Materials & Supplies	4,479	70,000	50,000	0	(50,000)
4500 - Education and Training	4,371	6,000	4,000	4,500	500
4720 - Conference Travel & Expenses	3,503	19,000	28,800	12,000	(16,800)
4805 - Repair & Maint - Structures	0	50,000	20,000	20,000	0
4910 - Miscellaneous Fees & Registration	13,597	1,320	2,280	1,250	(1,030)
5700 - Insurance	924,630	850,000	850,000	850,000	0
6340 - Workers Compensation Benefits	717,930	1,340,000	1,200,000	1,316,000	116,000
6350 - Claims for Pers Injuries & Prop Damage	2,098,108	1,000,000	1,000,000	1,250,000	250,000
8050 - Equipment (under \$5,000)	1,462	32,000	4,000	38,600	34,600
<b>Materials, Supplies and Services</b>	<b>6,319,783</b>	<b>6,063,110</b>	<b>7,004,251</b>	<b>7,408,099</b>	<b>403,849</b>
1270 - General Plant & Equip (over \$5,000)	0	20,000	125,000	25,000	(100,000)
<b>Equipment</b>	<b>0</b>	<b>20,000</b>	<b>125,000</b>	<b>25,000</b>	<b>(100,000)</b>
<b>Total ESO - Executive Support Office</b>	<b>7,452,165</b>	<b>7,596,660</b>	<b>8,486,451</b>	<b>8,692,737</b>	<b>206,287</b>

Notes

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**ESO - Executive Support Office**

**5105 - Executive Support Office**

**Section's Activity**

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

<b>Account</b>	<b>FY2019 Actual</b>	<b>FY2019 Adopted Budget</b>	<b>FY2020 Adopted Budget</b>	<b>FY2021 Proposed Budget</b>	<b>Change</b>
<b>4110 - Salaries &amp; Wages</b>	<b>224,978</b>	<b>259,700</b>	<b>238,400</b>	<b>148,800</b>	<b>(89,600)</b>
4120 - Overtime	3,340	1,000	1,000	650	(350)
<b>4130 - Miscellaneous (Payroll)</b>	<b>158</b>	<b>42,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Personnel Services</b>	<b>228,477</b>	<b>302,700</b>	<b>239,400</b>	<b>149,450</b>	<b>(89,950)</b>
4160 - Meals: Mileage & Uniform Allowances	24	0	0	0	0
<b>4250 - Other Contractual Services</b>	<b>858</b>	<b>50,000</b>	<b>249,200</b>	<b>17,500</b>	<b>(231,700)</b>
4265 - Printing	0	500	500	250	(250)
<b>4270 - Professional Services</b>	<b>170,000</b>	<b>140,000</b>	<b>100,000</b>	<b>209,200</b>	<b>109,200</b>
4430 - Miscellaneous Supplies	8,096	8,050	3,000	1,500	(1,500)
<b>4460 - Other Materials &amp; Supplies</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
4500 - Education and Training	0	1,000	1,000	500	(500)
<b>4720 - Conference Travel &amp; Expenses</b>	<b>58</b>	<b>0</b>	<b>0</b>	<b>2,000</b>	<b>2,000</b>
4910 - Miscellaneous Fees & Registration	10,000	1,000	1,000	0	(1,000)
<b>8050 - Equipment (under \$5,000)</b>	<b>1,372</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Materials, Supplies and Services</b>	<b>190,408</b>	<b>200,550</b>	<b>354,700</b>	<b>230,950</b>	<b>(123,750)</b>
<b>Total Executive Support Office</b>	<b>418,884</b>	<b>503,250</b>	<b>594,100</b>	<b>380,400</b>	<b>(213,700)</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**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. 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	283,484	323,300	327,500	335,400	7,900
4120 - Overtime	6,065	5,000	5,000	6,950	1,950
4130 - Miscellaneous (Payroll)	50	0	0	0	0
<b>Personnel Services</b>	<b>289,599</b>	<b>328,300</b>	<b>332,500</b>	<b>342,350</b>	<b>9,850</b>
4160 - Meals, Mileage & Uniform Allowances	803	1,200	1,200	1,200	0
4250 - Other Contractual Services	9,501	2,000	3,199	17,899	14,700
4265 - Printing	0	0	0	0	0
4270 - Professional Services	1,028,328	1,152,000	1,420,000	1,050,000	(370,000)
4430 - Miscellaneous Supplies	839	0	6,272	7,300	1,029
4460 - Other Materials & Supplies	4,479	0	0	0	0
4500 - Education and Training	4,371	4,500	3,000	2,750	(250)
4720 - Conference Travel & Expenses	0	12,000	20,800	10,000	(10,800)
4910 - Miscellaneous Fees & Registration	3,597	0	1,280	1,250	(30)
5700 - Insurance	924,630	850,000	850,000	850,000	0
6340 - Workers Compensation Benefits	717,930	1,340,000	1,200,000	1,316,000	116,000
6350 - Claims for Pers Injuries & Prop Damage	2,098,108	1,000,000	1,000,000	1,250,000	250,000
8050 - Equipment (under \$5,000)	90	15,000	0	0	0
<b>Materials, Supplies and Services</b>	<b>4,792,676</b>	<b>4,376,700</b>	<b>4,505,751</b>	<b>4,506,399</b>	<b>649</b>
1270 - General Plant & Equip (over \$5,000)	0	0	0	0	0
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Risk Management</b>	<b>5,082,275</b>	<b>4,705,000</b>	<b>4,838,251</b>	<b>4,848,749</b>	<b>10,499</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**ESO - Executive Support Office**

**5120 - Security Office**

**Section's Activity**

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. It oversees the development and installation of security enhancements and equipment for BWS facilities. It monitors facilities from the central security center through the use of security guards, cameras, sensor alarms, and ID cards. The unit 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	222,617	248,900	245,900	159,000	(86,900)
4120 - Overtime	2,897	10,000	10,000	6,250	(3,750)
<b>Personnel Services</b>	<b>225,513</b>	<b>258,900</b>	<b>255,900</b>	<b>165,250</b>	<b>(90,650)</b>
4160 - Meals; Mileage & Uniform Allowances	131	1,500	300	300	0
4250 - Other Contractual Services	6,231	0	1,998,000	2,344,000	346,000
4270 - Professional Services	1,253,655	1,300,000	0	100,000	100,000
4430 - Miscellaneous Supplies	39,951	2,000	25,000	6,000	(19,000)
4460 - Other Materials & Supplies	0	70,000	50,000	0	(50,000)
4500 - Education and Training	0	500	0	0	0
4805 - Repair & Maint - Structures	0	50,000	20,000	20,000	0
8050 - Equipment (under \$5,000)	0	1,000	4,000	35,000	31,000
<b>Materials, Supplies and Services</b>	<b>1,299,967</b>	<b>1,425,000</b>	<b>2,097,300</b>	<b>2,505,300</b>	<b>408,000</b>
1270 - General Plant & Equip (over \$5,000)	0	0	0	25,000	25,000
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25,000</b>	<b>25,000</b>
<b>Total Security Office</b>	<b>1,525,481</b>	<b>1,683,900</b>	<b>2,353,200</b>	<b>2,695,550</b>	<b>342,350</b>

**Budget Highlights**



**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**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. Develops water and other revenue projections and conducts various revenue, budgetary, financial and statistical studies of the department.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	95,860	194,200	160,500	213,000	52,500
4120 - Overtime	4,648	4,000	4,000	3,688	(312)
<b>Personnel Services</b>	<b>100,509</b>	<b>198,200</b>	<b>164,500</b>	<b>216,688</b>	<b>52,188</b>
4160 - Meals; Mileage & Uniform Allowances	230	0	0	0	0
4250 - Other Contractual Services	180	0	0	0	0
4251 - Software Licenses and Maintenance	31,204	36,000	38,000	30,000	(8,000)
4260 - Advertising & Publication of Notices	0	300	0	0	0
4265 - Printing	0	1,000	500	600	100
4910 - Miscellaneous Fees & Registration	0	320	0	0	0
8050 - Equipment (under \$5,000)	0	1,000	0	3,600	3,600
<b>Materials, Supplies and Services</b>	<b>31,615</b>	<b>38,620</b>	<b>38,500</b>	<b>34,200</b>	<b>(4,300)</b>
1270 - General Plant & Equip (over \$5,000)	0	20,000	45,000	0	(45,000)
<b>Equipment</b>	<b>0</b>	<b>20,000</b>	<b>45,000</b>	<b>0</b>	<b>(45,000)</b>
<b>Total Management and Budget</b>	<b>132,123</b>	<b>256,820</b>	<b>248,000</b>	<b>250,888</b>	<b>2,888</b>

**Budget Highlights**

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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	260,917	383,700	338,400	371,900	33,500
4120 - Overtime	6,505	0	1,500	14,000	12,500
4130 - Miscellaneous (Payroll)	20,862	41,750	25,000	0	(25,000)
<b>Personnel Services</b>	<b>288,284</b>	<b>425,450</b>	<b>364,900</b>	<b>385,900</b>	<b>21,000</b>
4160 - Meals, Mileage & Uniform Allowances	186	0	0	0	0
4250 - Other Contractual Services	419	240	0	0	0
4270 - Professional Services	0	0	0	130,000	130,000
4430 - Miscellaneous Supplies	1,068	0	0	0	0
4460 - Other Materials & Supplies	0	0	0	0	0
4500 - Education and Training	0	0	0	1,250	1,250
4720 - Conference Travel & Expenses	3,445	7,000	8,000	0	(8,000)
4805 - Repair & Maint - Structures	0	0	0	0	0
8050 - Equipment (under \$5,000)	0	15,000	0	0	0
<b>Materials, Supplies and Services</b>	<b>5,118</b>	<b>22,240</b>	<b>8,000</b>	<b>131,250</b>	<b>123,250</b>
1270 - General Plant & Equip (over \$5,000)	0	0	80,000	0	(80,000)
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>80,000</b>	<b>0</b>	<b>(80,000)</b>
<b>Total Procurement Section</b>	<b>293,401</b>	<b>447,690</b>	<b>452,900</b>	<b>517,150</b>	<b>64,250</b>

**Budget Highlights**

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**COMM - Communications Office**

**Section's Activity**

The Communications Office develops departmental policies and programs for strategic internal and external communications, including community relations, water education and public information, including 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	757,564	796,300	774,600	779,800	5,200
4120 - Overtime	37,017	38,978	62,035	48,000	(14,035)
4130 - Miscellaneous (Payroll)	0	65,125	50,532	26,800	(23,732)
<b>Personnel Services</b>	<b>794,581</b>	<b>900,403</b>	<b>887,167</b>	<b>854,600</b>	<b>(32,567)</b>
4160 - Meals; Mileage & Uniform Allowances	1,625	957	1,053	2,500	1,447
4250 - Other Contractual Services	283,620	304,290	347,944	348,378	434
4251 - Software Licenses and Maintenance	5,874	10,940	24,531	9,469	(15,062)
4260 - Advertising & Publication of Notices	2,064	11,550	16,940	0	(16,940)
4265 - Printing	50,834	39,500	66,000	43,900	(22,100)
4410 - Gasoline	10	0	0	0	0
4430 - Miscellaneous Supplies	9,857	4,000	4,800	3,000	(1,800)
4460 - Other Materials & Supplies	23,982	41,800	55,000	35,644	(19,356)
4480 - Postage	0	39,100	15,600	660	(14,940)
4500 - Education and Training	448	5,000	11,200	250	(10,950)
4720 - Conference Travel & Expenses	1,669	6,000	0	0	0
4815 - Repair & Maint - Equipment	0	850	932	1,032	100
4910 - Miscellaneous Fees & Registration	8,977	14,620	10,520	684	(9,836)
8050 - Equipment (under \$5,000)	18,921	5,000	5,000	1,560	(3,440)
<b>Materials, Supplies and Services</b>	<b>407,880</b>	<b>483,607</b>	<b>559,520</b>	<b>447,077</b>	<b>(112,443)</b>
1270 - General Plant & Equip (over \$5,000)	5,032	30,274	0	0	0
<b>Equipment</b>	<b>5,032</b>	<b>30,274</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Communications Office</b>	<b>1,207,494</b>	<b>1,414,284</b>	<b>1,446,687</b>	<b>1,301,677</b>	<b>(145,010)</b>

**Budget Highlights**

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**HRO - Human Resources Office**

**Section's Activity**

The BWS 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, BWS HRO provides staff support for position management and review of reorganizations.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	470,953	584,600	568,900	581,000	12,100
4120 - Overtime	4,529	5,000	5,000	5,000	0
<b>Personnel Services</b>	<b>475,483</b>	<b>589,600</b>	<b>573,900</b>	<b>586,000</b>	<b>12,100</b>
4160 - Meals; Mileage & Uniform Allowances	310	300	300	300	0
4250 - Other Contractual Services	13,868	50,000	100,000	130,000	30,000
4260 - Advertising & Publication of Notices	249	5,000	5,000	5,000	0
4430 - Miscellaneous Supplies	1,455	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	2,995	6,000	6,000	6,000	0
4480 - Postage	60	100	100	100	0
4500 - Education and Training	25,496	71,200	71,200	60,000	(11,200)
4720 - Conference Travel & Expenses	4,653	15,300	15,800	16,100	300
4815 - Repair & Maint - Equipment	848	1,250	1,250	550	(700)
4910 - Miscellaneous Fees & Registration	453	500	500	550	50
6340 - Workers Compensation Benefits	51,742	0	0	0	0
8050 - Equipment (under \$5,000)	0	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>102,129</b>	<b>152,150</b>	<b>202,650</b>	<b>221,100</b>	<b>18,450</b>
1270 - General Plant & Equip (over \$5,000)	50,172	35,000	5,500	1,500	(4,000)
<b>Equipment</b>	<b>50,172</b>	<b>35,000</b>	<b>5,500</b>	<b>1,500</b>	<b>(4,000)</b>
<b>Total Human Resources Office</b>	<b>627,784</b>	<b>776,750</b>	<b>782,050</b>	<b>808,600</b>	<b>26,550</b>

**Budget Highlights**

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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	1,500,867	1,741,400	1,684,400	1,857,000	172,600
4120 - Overtime	147,135	265,000	295,000	320,000	25,000
4130 - Miscellaneous (Payroll)	8,918	0	1,000	70,000	69,000
<b>Personnel Services</b>	<b>1,656,919</b>	<b>2,006,400</b>	<b>1,980,400</b>	<b>2,247,000</b>	<b>266,600</b>
4160 - Meals, Mileage & Uniform Allowances	5,812	14,000	14,000	13,210	(790)
4250 - Other Contractual Services	723,030	3,050,320	681,400	680,500	(900)
4251 - Software Licenses and Maintenance	76,830	30,000	85,000	0	(85,000)
4270 - Professional Services	4,596,725	3,100,000	6,970,000	8,815,000	1,845,000
4430 - Miscellaneous Supplies	1,951	2,320	2,320	2,820	500
4460 - Other Materials & Supplies	113,938	146,300	148,300	218,000	69,700
4500 - Education and Training	780	24,670	26,740	29,120	2,380
4720 - Conference Travel & Expenses	19,820	43,500	66,000	52,300	(13,700)
4815 - Repair & Maint - Equipment	6,982	50,500	32,100	36,500	4,400
4910 - Miscellaneous Fees & Registration	11,013	18,400	21,900	26,700	4,800
8050 - Equipment (under \$5,000)	19,762	27,525	52,290	67,450	15,160
<b>Materials, Supplies and Services</b>	<b>5,576,642</b>	<b>6,507,535</b>	<b>8,100,050</b>	<b>9,941,600</b>	<b>1,841,550</b>
1270 - General Plant & Equip (over \$5,000)	5,288	50,000	155,500	33,000	(122,500)
<b>Equipment</b>	<b>5,288</b>	<b>50,000</b>	<b>155,500</b>	<b>33,000</b>	<b>(122,500)</b>
<b>Total WQ - Water Quality</b>	<b>7,238,850</b>	<b>8,563,935</b>	<b>10,235,950</b>	<b>12,221,600</b>	<b>1,985,650</b>

Notes

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**WQ - Water Quality**

**5250 - Water Quality Administration**

**Section's Activity**

Administers the department's compliance with all safe drinking water regulations, environmental laws, rules and regulations.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	332,720	346,600	405,300	407,300	2,000
Personnel Services	332,720	346,600	405,300	407,300	2,000
4160 - Meals; Mileage & Uniform Allowances	10	0	0	10	10
4250 - Other Contractual Services	37,800	2,115,500	3,600	3,600	0
4251 - Software Licenses and Maintenance	0	0	0	0	0
4270 - Professional Services	3,896,725	3,100,000	6,770,000	8,575,000	1,805,000
4430 - Miscellaneous Supplies	1,951	500	500	1,000	500
4460 - Other Materials & Supplies	414	300	300	76,000	75,700
4500 - Education and Training	530	21,620	21,800	21,800	0
4720 - Conference Travel & Expenses	16,774	32,400	47,900	32,700	(15,200)
4910 - Miscellaneous Fees & Registration	0	1,800	1,800	2,000	200
8050 - Equipment (under \$5,000)	0	0	5,000	0	(5,000)
Materials, Supplies and Services	3,954,204	5,272,120	6,850,900	8,712,110	1,861,210
1270 - General Plant & Equip (over \$5,000)	0	0	75,000	0	(75,000)
Equipment	0	0	75,000	0	(75,000)
<b>Total Water Quality Administration</b>	<b>4,286,924</b>	<b>5,618,720</b>	<b>7,331,200</b>	<b>9,119,410</b>	<b>1,788,210</b>

**Budget Highlights**



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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, monitors proposed rules for departmental impact. Supports the department's operational testing requirements and special water quality studies.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	549,460	600,500	576,200	552,000	(24,200)
4120 - Overtime	40,045	25,000	25,000	50,000	25,000
4130 - Miscellaneous (Payroll)	8,918	0	0	40,000	40,000
<b>Personnel Services</b>	<b>598,422</b>	<b>625,500</b>	<b>601,200</b>	<b>642,000</b>	<b>40,800</b>
4160 - Meals, Mileage & Uniform Allowances	935	2,000	2,000	1,200	(800)
4250 - Other Contractual Services	569,611	786,800	665,800	662,300	(3,500)
4270 - Professional Services	700,000	0	100,000	140,000	40,000
4430 - Miscellaneous Supplies	0	1,820	1,820	1,820	0
4460 - Other Materials & Supplies	29,279	40,000	42,000	40,000	(2,000)
4500 - Education and Training	250	620	740	1,720	980
4720 - Conference Travel & Expenses	500	6,300	6,300	6,300	0
4815 - Repair & Maint - Equipment	1,591	30,000	10,000	15,000	5,000
4910 - Miscellaneous Fees & Registration	2,108	7,500	7,500	7,500	0
8050 - Equipment (under \$5,000)	1,321	4,700	7,390	8,050	660
<b>Materials, Supplies and Services</b>	<b>1,305,596</b>	<b>879,740</b>	<b>843,550</b>	<b>883,890</b>	<b>40,340</b>
1270 - General Plant & Equip (over \$5,000)	0	50,000	0	8,000	8,000
<b>Equipment</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>8,000</b>	<b>8,000</b>
<b>Total Chemical Laboratory</b>	<b>1,904,018</b>	<b>1,555,240</b>	<b>1,444,750</b>	<b>1,533,890</b>	<b>89,140</b>

**Budget Highlights**

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**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; monitors proposed rules for departmental impact. Supports the department's operational testing requirements and special water quality studies

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
<b>4110 - Salaries &amp; Wages</b>	<b>459,674</b>	<b>508,900</b>	<b>515,900</b>	<b>618,800</b>	<b>102,900</b>
4120 - Overtime	18,686	120,000	120,000	120,000	0
<b>4130 - Miscellaneous (Payroll)</b>	<b>0</b>	<b>0</b>	<b>1,000</b>	<b>30,000</b>	<b>29,000</b>
<b>Personnel Services</b>	<b>478,360</b>	<b>628,900</b>	<b>636,900</b>	<b>768,800</b>	<b>131,900</b>
4160 - Meals; Mileage & Uniform Allowances	1,427	5,000	5,000	5,000	0
<b>4250 - Other Contractual Services</b>	<b>108,751</b>	<b>140,100</b>	<b>5,500</b>	<b>5,600</b>	<b>100</b>
4251 - Software Licenses and Maintenance	76,830	30,000	85,000	0	(85,000)
<b>4270 - Professional Services</b>	<b>0</b>	<b>0</b>	<b>100,000</b>	<b>100,000</b>	<b>0</b>
4460 - Other Materials & Supplies	36,669	56,000	56,000	58,000	2,000
<b>4500 - Education and Training</b>	<b>0</b>	<b>2,430</b>	<b>4,200</b>	<b>5,600</b>	<b>1,400</b>
4720 - Conference Travel & Expenses	2,547	4,800	11,800	13,300	1,500
<b>4815 - Repair &amp; Maint - Equipment</b>	<b>3,235</b>	<b>4,000</b>	<b>4,000</b>	<b>4,000</b>	<b>0</b>
4910 - Miscellaneous Fees & Registration	7,115	6,900	9,100	14,200	5,100
<b>8050 - Equipment (under \$5,000)</b>	<b>7,511</b>	<b>10,600</b>	<b>12,000</b>	<b>4,900</b>	<b>(7,100)</b>
<b>Materials, Supplies and Services</b>	<b>244,085</b>	<b>259,830</b>	<b>292,600</b>	<b>210,600</b>	<b>(82,000)</b>
1270 - General Plant & Equip (over \$5,000)	5,288	0	80,500	20,000	(60,500)
<b>Equipment</b>	<b>5,288</b>	<b>0</b>	<b>80,500</b>	<b>20,000</b>	<b>(60,500)</b>
<b>Total Microbiological Laboratory</b>	<b>727,733</b>	<b>888,730</b>	<b>1,010,000</b>	<b>999,400</b>	<b>(10,600)</b>

**Budget Highlights**

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**WQ - Water Quality**

**5255 - Cross-Connection Control**

**Section's Activity**

<b>Account</b>	<b>FY2019 Actual</b>	<b>FY2019 Adopted Budget</b>	<b>FY2020 Adopted Budget</b>	<b>FY2021 Proposed Budget</b>	<b>Change</b>
4110 - Salaries & Wages	159,013	285,400	187,000	278,900	91,900
4120 - Overtime	88,404	120,000	150,000	150,000	0
<b>Personnel Services</b>	<b>247,417</b>	<b>405,400</b>	<b>337,000</b>	<b>428,900</b>	<b>91,900</b>
4160 - Meals; Mileage & Uniform Allowances	3,440	7,000	7,000	7,000	0
4250 - Other Contractual Services	6,867	7,920	6,500	9,000	2,500
4460 - Other Materials & Supplies	47,575	50,000	50,000	44,000	(6,000)
4815 - Repair & Maint - Equipment	2,156	16,500	18,100	17,500	(600)
4910 - Miscellaneous Fees & Registration	1,791	2,200	3,500	3,000	(500)
8050 - Equipment (under \$5,000)	10,929	12,225	27,900	54,500	26,600
<b>Materials, Supplies and Services</b>	<b>72,758</b>	<b>95,845</b>	<b>113,000</b>	<b>135,000</b>	<b>22,000</b>
1270 - General Plant & Equip (over \$5,000)	0	0	0	5,000	5,000
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,000</b>	<b>5,000</b>
<b>Total Cross-Connection Control</b>	<b>320,174</b>	<b>501,245</b>	<b>450,000</b>	<b>568,900</b>	<b>118,900</b>

**Budget Highlights**

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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; and 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	3,106,618	4,128,400	3,747,100	4,028,900	281,800
4120 - Overtime	226,348	406,300	437,100	451,000	13,900
4130 - Miscellaneous (Payroll)	46,480	100,000	194,000	116,000	(78,000)
<b>Personnel Services</b>	<b>3,379,446</b>	<b>4,634,700</b>	<b>4,378,200</b>	<b>4,595,900</b>	<b>217,700</b>
4160 - Meals, Mileage & Uniform Allowances	18,255	26,950	29,540	29,560	20
4220 - Collection Fees	343,587	678,000	850,000	876,000	26,000
4250 - Other Contractual Services	50,343	57,950	139,200	66,645	(72,555)
4267 - Printed forms	0	5,000	5,000	5,000	0
4410 - Gasoline	0	0	0	0	0
4430 - Miscellaneous Supplies	5,873	29,400	19,200	17,200	(2,000)
4460 - Other Materials & Supplies	17,581	9,200	11,700	14,000	2,300
4470 - Parts and Accessories	325	0	0	0	0
4480 - Postage	0	0	15,000	15,600	600
4500 - Education and Training	13,045	41,800	59,000	13,800	(45,200)
4720 - Conference Travel & Expenses	350	6,000	7,000	0	(7,000)
4815 - Repair & Maint - Equipment	660	9,400	6,000	6,000	0
4910 - Miscellaneous Fees & Registration	0	2,600	2,600	8,400	5,800
8050 - Equipment (under \$5,000)	29,019	42,200	44,700	33,700	(11,000)
<b>Materials, Supplies and Services</b>	<b>479,039</b>	<b>908,500</b>	<b>1,188,940</b>	<b>1,085,905</b>	<b>(103,035)</b>
1270 - General Plant & Equip (over \$5,000)	195,066	363,000	56,000	10,000	(46,000)
<b>Equipment</b>	<b>195,066</b>	<b>363,000</b>	<b>56,000</b>	<b>10,000</b>	<b>(46,000)</b>
<b>Total CC - Customer Care</b>	<b>4,053,550</b>	<b>5,906,200</b>	<b>5,623,140</b>	<b>5,691,805</b>	<b>68,665</b>

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**CC - Customer Care**

**5300 - Customer Care Administration**

**Section's Activity**

Administers the affairs of the Customer Care Administration Section; provides clerical support to sections.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	234,262	285,600	298,700	266,300	(32,400)
4120 - Overtime	5,755	2,500	5,100	6,000	900
<b>Personnel Services</b>	<b>240,017</b>	<b>288,100</b>	<b>303,800</b>	<b>272,300</b>	<b>(31,500)</b>
4160 - Meals; Mileage & Uniform Allowances	282	50	240	200	(40)
4250 - Other Contractual Services	3,103	3,600	79,600	5,620	(73,980)
4430 - Miscellaneous Supplies	5,772	15,000	15,000	13,800	(1,200)
4460 - Other Materials & Supplies	9,877	0	0	0	0
4480 - Postage	0	0	0	0	0
4500 - Education and Training	13,045	33,000	50,000	12,000	(38,000)
4720 - Conference Travel & Expenses	350	6,000	7,000	0	(7,000)
4910 - Miscellaneous Fees & Registration	0	600	600	400	(200)
8050 - Equipment (under \$5,000)	0	0	0	2,700	2,700
<b>Materials, Supplies and Services</b>	<b>32,430</b>	<b>58,250</b>	<b>152,440</b>	<b>34,720</b>	<b>(117,720)</b>
1270 - General Plant & Equip (over \$5,000)	177,516	363,000	0	0	0
<b>Equipment</b>	<b>177,516</b>	<b>363,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Customer Care Administration</b>	<b>449,963</b>	<b>709,350</b>	<b>456,240</b>	<b>307,020</b>	<b>(149,220)</b>

**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 cashing 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
<b>4110 - Salaries &amp; Wages</b>	<b>496,819</b>	<b>820,000</b>	<b>687,500</b>	<b>842,800</b>	<b>155,300</b>
4120 - Overtime	9,688	7,800	12,000	15,000	3,000
<b>4130 - Miscellaneous (Payroll)</b>	<b>25,225</b>	<b>40,000</b>	<b>57,000</b>	<b>30,000</b>	<b>(27,000)</b>
<b>Personnel Services</b>	<b>531,732</b>	<b>867,800</b>	<b>756,500</b>	<b>887,800</b>	<b>131,300</b>
4160 - Meals, Mileage & Uniform Allowances	1,331	3,600	3,600	4,260	660
<b>4220 - Collection Fees</b>	<b>343,587</b>	<b>678,000</b>	<b>850,000</b>	<b>876,000</b>	<b>26,000</b>
4250 - Other Contractual Services	10,547	12,600	17,000	18,425	1,425
<b>4267 - Printed forms</b>	<b>0</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>0</b>
4430 - Miscellaneous Supplies	101	9,000	4,200	3,400	(800)
<b>4460 - Other Materials &amp; Supplies</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>1,500</b>	<b>1,500</b>
4480 - Postage	0	0	15,000	15,600	600
<b>4500 - Education and Training</b>	<b>0</b>	<b>6,800</b>	<b>6,000</b>	<b>1,800</b>	<b>(4,200)</b>
4815 - Repair & Maint - Equipment	660	3,400	0	0	0
<b>8050 - Equipment (under \$5,000)</b>	<b>1,515</b>	<b>7,700</b>	<b>1,200</b>	<b>6,000</b>	<b>4,800</b>
<b>Materials, Supplies and Services</b>	<b>357,793</b>	<b>726,100</b>	<b>902,000</b>	<b>931,985</b>	<b>29,985</b>
1270 - General Plant & Equip (over \$5,000)	17,550	0	36,000	0	(36,000)
<b>Equipment</b>	<b>17,550</b>	<b>0</b>	<b>36,000</b>	<b>0</b>	<b>(36,000)</b>
<b>Total Collection and Credit</b>	<b>907,075</b>	<b>1,593,900</b>	<b>1,694,500</b>	<b>1,819,785</b>	<b>125,285</b>

**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
<b>4110 - Salaries &amp; Wages</b>	353,267	477,800	492,800	377,700	(115,100)
4120 - Overtime	4,938	6,000	10,000	20,000	10,000
<b>4130 - Miscellaneous (Payroll)</b>	0	0	53,000	0	(53,000)
<b>Personnel Services</b>	<b>358,205</b>	<b>483,800</b>	<b>555,800</b>	<b>397,700</b>	<b>(158,100)</b>
4160 - Meals, Mileage & Uniform Allowances	0	800	600	0	(600)
<b>4220 - Collection Fees</b>	0	0	0	0	0
4250 - Other Contractual Services	533	750	600	600	0
<b>4460 - Other Materials &amp; Supplies</b>	0	1,200	1,200	2,000	800
8050 - Equipment (under \$5,000)	539	4,500	0	0	0
<b>Materials, Supplies and Services</b>	<b>1,072</b>	<b>7,250</b>	<b>2,400</b>	<b>2,600</b>	<b>200</b>
<b>Total Service Engineering</b>	<b>359,277</b>	<b>491,050</b>	<b>558,200</b>	<b>400,300</b>	<b>(157,900)</b>

**Budget Highlights**

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**CC - Customer Care**

**5325 - 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	0	0	0	0	0
4120 - Overtime	0	0	0	0	0
<b>Personnel Services</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
4160 - Meals; Mileage & Uniform Allowances	0	0	0	0	0
4250 - Other Contractual Services	0	0	0	0	0
4460 - Other Materials & Supplies	0	0	0	0	0
4910 - Miscellaneous Fees & Registration	0	0	0	0	0
8050 - Equipment (under \$5,000)	0	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Cross-Connection Control</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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 other BWS personnel in other divisions with information, statistics, and status of accounts via computer terminals and services files.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	889,822	1,283,200	1,129,000	1,287,800	158,800
4120 - Overtime	7,008	30,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	8,205	0	25,000	27,000	2,000
<b>Personnel Services</b>	<b>905,036</b>	<b>1,313,200</b>	<b>1,204,000</b>	<b>1,364,800</b>	<b>160,800</b>
4160 - Meals; Mileage & Uniform Allowances	3,048	2,500	2,700	2,700	0
4430 - Miscellaneous Supplies	0	5,000	0	0	0
4460 - Other Materials & Supplies	0	0	0	0	0
4500 - Education and Training	0	2,000	3,000	0	(3,000)
8050 - Equipment (under \$5,000)	0	0	3,000	0	(3,000)
<b>Materials, Supplies and Services</b>	<b>3,048</b>	<b>9,500</b>	<b>8,700</b>	<b>2,700</b>	<b>(6,000)</b>
<b>Total Customer Service and Records</b>	<b>908,084</b>	<b>1,322,700</b>	<b>1,212,700</b>	<b>1,367,500</b>	<b>154,800</b>

**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
<b>4110 - Salaries &amp; Wages</b>	<b>1,132,447</b>	<b>1,261,800</b>	<b>1,139,100</b>	<b>1,254,300</b>	<b>115,200</b>
4120 - Overtime	198,958	360,000	360,000	360,000	0
<b>4130 - Miscellaneous (Payroll)</b>	<b>13,050</b>	<b>60,000</b>	<b>59,000</b>	<b>59,000</b>	<b>0</b>
<b>Personnel Services</b>	<b>1,344,455</b>	<b>1,681,800</b>	<b>1,558,100</b>	<b>1,673,300</b>	<b>115,200</b>
4160 - Meals; Mileage & Uniform Allowances	13,593	20,000	22,400	22,400	0
<b>4250 - Other Contractual Services</b>	<b>36,160</b>	<b>41,000</b>	<b>42,000</b>	<b>42,000</b>	<b>0</b>
4410 - Gasoline	0	0	0	0	0
<b>4430 - Miscellaneous Supplies</b>	<b>0</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>
4460 - Other Materials & Supplies	7,654	8,000	10,500	10,500	0
<b>4470 - Parts and Accessories</b>	<b>325</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
4815 - Repair & Maint - Equipment	0	6,000	6,000	6,000	0
<b>4910 - Miscellaneous Fees &amp; Registration</b>	<b>0</b>	<b>2,000</b>	<b>2,000</b>	<b>8,000</b>	<b>6,000</b>
8050 - Equipment (under \$5,000)	26,964	30,000	40,500	25,000	(15,500)
<b>Materials, Supplies and Services</b>	<b>84,696</b>	<b>107,400</b>	<b>123,400</b>	<b>113,900</b>	<b>(9,500)</b>
1270 - General Plant & Equip (over \$5,000)	0	0	20,000	10,000	(10,000)
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>20,000</b>	<b>10,000</b>	<b>(10,000)</b>
<b>Total Investigation</b>	<b>1,429,151</b>	<b>1,789,200</b>	<b>1,701,500</b>	<b>1,797,200</b>	<b>95,700</b>

**Budget Highlights**

**Board of Water Supply  
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**LAND - Land**

**Section's Activity**

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

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	244,493	302,300	253,100	285,300	32,200
4120 - Overtime	19,220	19,100	21,500	24,300	2,800
4130 - Miscellaneous (Payroll)	0	0	0	0	0
<b>Personnel Services</b>	<b>263,714</b>	<b>321,400</b>	<b>274,600</b>	<b>309,600</b>	<b>35,000</b>
4160 - Meals, Mileage & Uniform Allowances	220	0	1,000	1,000	0
4210 - Appraisals; Title Searches & Related Costs	54,994	452,500	452,500	222,500	(230,000)
4250 - Other Contractual Services	13,748	19,200	14,300	14,300	0
4270 - Professional Services	0	0	0	1,200,000	1,200,000
4430 - Miscellaneous Supplies	551	600	600	600	0
4460 - Other Materials & Supplies	0	0	0	0	0
4480 - Postage	0	200	200	700	500
4500 - Education and Training	0	0	0	0	0
4720 - Conference Travel & Expenses	0	0	400	0	(400)
4815 - Repair & Maint - Equipment	0	0	0	240	240
4910 - Miscellaneous Fees & Registration	20,312	19,200	20,500	20,400	(100)
5710 - Rent	0	0	56,000	0	(56,000)
8050 - Equipment (under \$5,000)	0	0	500	0	(500)
<b>Materials, Supplies and Services</b>	<b>89,825</b>	<b>491,700</b>	<b>546,000</b>	<b>1,459,740</b>	<b>913,740</b>
1270 - General Plant & Equip (over \$5,000)	0	40,000	0	0	0
<b>Equipment</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Land</b>	<b>353,539</b>	<b>853,100</b>	<b>820,600</b>	<b>1,769,340</b>	<b>948,740</b>

**Budget Highlights**



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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	2,134,310	2,373,600	2,465,500	2,494,300	28,800
4120 - Overtime	86,256	100,291	132,079	154,545	22,466
4130 - Miscellaneous (Payroll)	300	3,348	3,617	4,047	430
<b>Personnel Services</b>	<b>2,220,866</b>	<b>2,477,239</b>	<b>2,601,196</b>	<b>2,652,892</b>	<b>51,696</b>
4160 - Meals, Mileage & Uniform Allowances	4,127	3,330	5,010	5,320	310
4250 - Other Contractual Services	2,036,305	1,060,300	2,137,459	1,355,420	(782,039)
4255 - Other Services	81,735	680,075	811,615	944,258	132,643
4265 - Printing	0	1,000	1,000	1,000	0
4270 - Professional Services	0	900,000	1,380,000	1,500,000	120,000
4430 - Miscellaneous Supplies	8,157	10,000	10,000	10,000	0
4460 - Other Materials & Supplies	67,297	48,000	38,000	59,200	21,200
4470 - Parts and Accessories	10	0	0	0	0
4480 - Postage	124	480	480	480	0
4500 - Education and Training	3,202	14,600	24,530	12,030	(12,500)
4680 - Telephone	0	0	0	2,400	2,400
4720 - Conference Travel & Expenses	24,943	69,105	63,910	69,470	5,560
4810 - Repair & Maint - Recycled Water Plt	715,314	948,442	3,480,527	1,889,751	(1,590,776)
4815 - Repair & Maint - Equipment	4,385	31,600	31,600	31,330	(270)
4910 - Miscellaneous Fees & Registration	75	1,200	11,200	11,200	0
4920 - Non-Potable Water Trtmt Plt Costs	4,653,418	4,638,520	4,668,060	4,662,868	(5,192)
4940 - US Geol Surv (USGS) CoOp Invest	59,531	72,000	72,000	790,000	718,000
8050 - Equipment (under \$5,000)	7,403	81,300	235,000	74,000	(161,000)
<b>Materials, Supplies and Services</b>	<b>7,666,025</b>	<b>8,559,952</b>	<b>12,970,391</b>	<b>11,418,727</b>	<b>(1,551,664)</b>
1270 - General Plant & Equip (over \$5,000)	5,390	85,000	90,000	90,000	0
<b>Equipment</b>	<b>5,390</b>	<b>85,000</b>	<b>90,000</b>	<b>90,000</b>	<b>0</b>
<b>Total WR - Water Resources</b>	<b>9,892,281</b>	<b>11,122,191</b>	<b>15,661,587</b>	<b>14,161,619</b>	<b>(1,499,968)</b>

Notes

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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 protection; advises and keeps management informed on water resources and administers the pertinent rules and regulations

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	367,488	378,500	367,300	377,200	9,900
4120 - Overtime	0	2,000	2,000	2,000	0
4130 - Miscellaneous (Payroll)	300	0	0	0	0
<b>Personnel Services</b>	<b>367,788</b>	<b>380,500</b>	<b>369,300</b>	<b>379,200</b>	<b>9,900</b>
4160 - Meals; Mileage & Uniform Allowances	40	0	0	0	0
4250 - Other Contractual Services	855,699	753,600	1,900,000	900,000	(1,000,000)
4430 - Miscellaneous Supplies	6,906	10,000	10,000	10,000	0
4480 - Postage	0	0	0	0	0
4500 - Education and Training	0	0	0	0	0
4720 - Conference Travel & Expenses	937	9,950	6,700	7,610	910
4815 - Repair & Maint - Equipment	762	200	200	200	0
4910 - Miscellaneous Fees & Registration	0	0	10,000	10,000	0
<b>Materials, Supplies and Services</b>	<b>864,344</b>	<b>773,750</b>	<b>1,926,900</b>	<b>927,810</b>	<b>(999,090)</b>
<b>Total Water Resources Administration</b>	<b>1,232,132</b>	<b>1,154,250</b>	<b>2,296,200</b>	<b>1,307,010</b>	<b>(989,190)</b>

**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	299,070	347,900	366,900	350,300	(16,600)
4120 - Overtime	3,494	7,438	7,438	8,645	1,207
<b>Personnel Services</b>	<b>302,564</b>	<b>355,338</b>	<b>374,338</b>	<b>358,945</b>	<b>(15,393)</b>
4160 - Meals; Mileage & Uniform Allowances	341	880	880	880	0
4250 - Other Contractual Services	480	75,960	960	11,920	10,960
4430 - Miscellaneous Supplies	8	0	0	0	0
4460 - Other Materials & Supplies	1,039	1,500	1,500	1,500	0
4480 - Postage	89	480	480	480	0
4500 - Education and Training	777	8,060	18,670	8,670	(10,000)
4720 - Conference Travel & Expenses	3,711	13,330	11,350	13,170	1,820
4815 - Repair & Maint - Equipment	2,818	7,400	7,400	7,130	(270)
8050 - Equipment (under \$5,000)	6,019	4,650	6,000	0	(6,000)
<b>Materials, Supplies and Services</b>	<b>15,281</b>	<b>112,260</b>	<b>47,240</b>	<b>43,750</b>	<b>(3,490)</b>
<b>Total Water System Planning</b>	<b>317,845</b>	<b>467,598</b>	<b>421,578</b>	<b>402,695</b>	<b>(18,883)</b>

**Budget Highlights**

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**WR - Water Resources**

**5472 - Water Conservation**

**Section's Activity**

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 nonpotable water programs.

<b>Account</b>	<b>FY2019 Actual</b>	<b>FY2019 Adopted Budget</b>	<b>FY2020 Adopted Budget</b>	<b>FY2021 Proposed Budget</b>	<b>Change</b>
4110 - Salaries & Wages	409,847	484,000	491,200	455,600	(35,600)
4120 - Overtime	42,828	41,205	41,205	41,205	0
<b>Personnel Services</b>	<b>452,676</b>	<b>525,205</b>	<b>532,405</b>	<b>496,805</b>	<b>(35,600)</b>
4160 - Meals; Mileage & Uniform Allowances	1,823	1,150	1,150	1,150	0
4250 - Other Contractual Services	3,023	1,920	0	0	0
4255 - Other Services	0	0	0	0	0
4270 - Professional Services	0	900,000	1,380,000	1,500,000	120,000
4430 - Miscellaneous Supplies	102	0	0	0	0
4460 - Other Materials & Supplies	50,929	20,450	10,450	15,450	5,000
4500 - Education and Training	0	1,600	1,600	1,600	0
4720 - Conference Travel & Expenses	11,912	23,200	17,300	24,750	7,450
8050 - Equipment (under \$5,000)	0	150	130,000	0	(130,000)
<b>Materials, Supplies and Services</b>	<b>67,789</b>	<b>948,470</b>	<b>1,540,500</b>	<b>1,542,950</b>	<b>2,450</b>
1270 - General Plant & Equip (over \$5,000)	5,390	0	0	0	0
<b>Equipment</b>	<b>5,390</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Water Conservation</b>	<b>525,855</b>	<b>1,473,675</b>	<b>2,072,905</b>	<b>2,039,755</b>	<b>(33,150)</b>

**Budget Highlights**

**Board of Water Supply  
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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4250 - Other Contractual Services	121,044	144,000	144,000	168,000	24,000
4810 - Repair & Maint - Recycled Water Plt	715,314	948,442	3,480,527	1,889,751	(1,590,776)
4920 - Non-Potable Water Trtmnt Plt Costs	4,653,418	4,638,520	4,668,060	4,662,868	(5,192)
<b>Materials, Supplies and Services</b>	<b>5,489,777</b>	<b>5,730,962</b>	<b>8,292,587</b>	<b>6,720,619</b>	<b>(1,571,968)</b>
<b>Total Recycled Water</b>	<b>5,489,777</b>	<b>5,730,962</b>	<b>8,292,587</b>	<b>6,720,619</b>	<b>(1,571,968)</b>

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**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	397,652	436,700	489,300	526,800	37,500
4120 - Overtime	16,523	32,548	34,436	41,195	6,759
4130 - Miscellaneous (Payroll)	0	3,348	3,617	4,047	430
<b>Personnel Services</b>	<b>414,175</b>	<b>472,596</b>	<b>527,353</b>	<b>572,042</b>	<b>44,689</b>
4160 - Meals; Mileage & Uniform Allowances	437	1,000	1,000	1,000	0
4250 - Other Contractual Services	1,056,059	84,320	91,999	275,000	183,001
4255 - Other Services	81,735	680,075	811,615	944,258	132,643
4265 - Printing	0	1,000	1,000	1,000	0
4430 - Miscellaneous Supplies	20	0	0	0	0
4460 - Other Materials & Supplies	15,296	25,000	25,000	41,200	16,200
4470 - Parts and Accessories	10	0	0	0	0
4480 - Postage	35	0	0	0	0
4500 - Education and Training	2,426	2,900	3,000	500	(2,500)
4680 - Telephone	0	0	0	2,400	2,400
4720 - Conference Travel & Expenses	130	12,000	14,250	12,500	(1,750)
4815 - Repair & Maint - Equipment	805	24,000	24,000	24,000	0
4910 - Miscellaneous Fees & Registration	75	1,200	1,200	1,200	0
4940 - US Geol Surv (USGS) CoOp Invest	59,531	72,000	72,000	790,000	718,000
8050 - Equipment (under \$5,000)	1,384	75,500	98,000	73,000	(25,000)
<b>Materials, Supplies and Services</b>	<b>1,217,941</b>	<b>978,995</b>	<b>1,143,064</b>	<b>2,166,058</b>	<b>1,022,994</b>
1270 - General Plant & Equip (over \$5,000)	0	85,000	90,000	90,000	0
<b>Equipment</b>	<b>0</b>	<b>85,000</b>	<b>90,000</b>	<b>90,000</b>	<b>0</b>
<b>Total Hydrology-Geology</b>	<b>1,632,116</b>	<b>1,536,591</b>	<b>1,760,417</b>	<b>2,828,100</b>	<b>1,067,683</b>

**Budget Highlights**



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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	273,560	274,000	308,900	337,400	28,500
4120 - Overtime	1,374	3,600	3,600	4,800	1,200
<b>Personnel Services</b>	<b>274,934</b>	<b>277,600</b>	<b>312,500</b>	<b>342,200</b>	<b>29,700</b>
4160 - Meals; Mileage & Uniform Allowances	66	0	150	300	150
4430 - Miscellaneous Supplies	0	0	0	0	0
4460 - Other Materials & Supplies	0	400	400	400	0
4500 - Education and Training	0	1,200	630	630	0
4720 - Conference Travel & Expenses	4,009	3,275	2,400	5,120	2,720
<b>Materials, Supplies and Services</b>	<b>4,075</b>	<b>4,875</b>	<b>3,580</b>	<b>6,450</b>	<b>2,870</b>
<b>Total Project Review</b>	<b>279,009</b>	<b>282,475</b>	<b>316,080</b>	<b>348,650</b>	<b>32,570</b>

**Budget Highlights**

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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	386,693	452,500	441,900	447,000	5,100
4120 - Overtime	22,037	13,500	43,400	56,700	13,300
<b>Personnel Services</b>	<b>408,729</b>	<b>466,000</b>	<b>485,300</b>	<b>503,700</b>	<b>18,400</b>
4160 - Meals, Mileage & Uniform Allowances	1,419	300	1,830	1,990	160
4250 - Other Contractual Services	0	500	500	500	0
4430 - Miscellaneous Supplies	1,121	0	0	0	0
4460 - Other Materials & Supplies	33	650	650	650	0
4500 - Education and Training	0	840	630	630	0
4720 - Conference Travel & Expenses	4,243	7,350	11,910	6,320	(5,590)
8050 - Equipment (under \$5,000)	0	1,000	1,000	1,000	0
<b>Materials, Supplies and Services</b>	<b>6,817</b>	<b>10,640</b>	<b>16,520</b>	<b>11,090</b>	<b>(5,430)</b>
<b>Total Long Range Planning</b>	<b>415,547</b>	<b>476,640</b>	<b>501,820</b>	<b>514,790</b>	<b>12,970</b>

**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, 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
<b>4110 - Salaries &amp; Wages</b>	<b>10,809,024</b>	<b>12,927,100</b>	<b>14,164,200</b>	<b>14,880,700</b>	<b>716,500</b>
4120 - Overtime	1,706,144	1,724,600	1,712,000	2,470,000	758,000
<b>4130 - Miscellaneous (Payroll)</b>	<b>475,716</b>	<b>1,108,000</b>	<b>1,012,000</b>	<b>993,800</b>	<b>(18,200)</b>
<b>Personnel Services</b>	<b>12,990,884</b>	<b>15,759,700</b>	<b>16,888,200</b>	<b>18,344,500</b>	<b>1,456,300</b>
1110 - Materials & Supplies (Storeroom)	1,376,405	2,000,000	2,000,000	1,600,000	(400,000)
<b>1120 - Meters (Storeroom)</b>	<b>581,759</b>	<b>1,200,000</b>	<b>1,500,000</b>	<b>2,200,000</b>	<b>700,000</b>
1125 - AMR Materials & Supplies (Storeroom)	17,172	2,000,000	2,000,000	500,000	(1,500,000)
<b>4160 - Meals; Mileage &amp; Uniform Allowances</b>	<b>99,676</b>	<b>125,900</b>	<b>129,500</b>	<b>131,500</b>	<b>2,000</b>
4230 - Emergency & Contracted Road Repairs	6,295,009	7,000,000	8,500,000	6,800,000	(1,700,000)
<b>4250 - Other Contractual Services</b>	<b>416,703</b>	<b>1,088,400</b>	<b>2,463,000</b>	<b>1,612,000</b>	<b>(851,000)</b>
4265 - Printing	2,182	0	0	0	0
<b>4270 - Professional Services</b>	<b>0</b>	<b>50,000</b>	<b>110,000</b>	<b>75,000</b>	<b>(35,000)</b>
4280 - Refuse Collection & Disposal	586,696	840,000	840,000	840,000	0
<b>4410 - Gasoline</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
4420 - Hauling Charges	440	160,000	160,000	160,000	0
<b>4430 - Miscellaneous Supplies</b>	<b>9,211</b>	<b>7,500</b>	<b>1,000</b>	<b>10,000</b>	<b>9,000</b>
4460 - Other Materials & Supplies	339,758	283,000	296,200	1,041,000	744,800
<b>4470 - Parts and Accessories</b>	<b>456</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
4480 - Postage	45	0	0	0	0
<b>4500 - Education and Training</b>	<b>5,148</b>	<b>40,000</b>	<b>45,000</b>	<b>45,000</b>	<b>0</b>
4720 - Conference Travel & Expenses	20,293	35,000	40,000	40,000	0
<b>4805 - Repair &amp; Maint - Structures</b>	<b>5,124</b>	<b>60,000</b>	<b>60,000</b>	<b>60,000</b>	<b>0</b>
4815 - Repair & Maint - Equipment	15,877	29,600	33,000	43,000	10,000
<b>4910 - Miscellaneous Fees &amp; Registration</b>	<b>399</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
4915 - Miscellaneous Financial Expenses	170,489	0	0	0	0
<b>4923 - Store Materials &amp; Expense</b>	<b>584,433</b>	<b>700,000</b>	<b>750,000</b>	<b>750,000</b>	<b>0</b>
8050 - Equipment (under \$5,000)	241,273	164,565	157,850	177,815	19,965
<b>Materials, Supplies and Services</b>	<b>10,768,547</b>	<b>15,783,965</b>	<b>19,085,550</b>	<b>16,085,315</b>	<b>(3,000,235)</b>
1270 - General Plant & Equip (over \$5,000)	169,596	100,000	284,000	105,000	(179,000)
<b>Equipment</b>	<b>169,596</b>	<b>100,000</b>	<b>284,000</b>	<b>105,000</b>	<b>(179,000)</b>
<b>Total FO - Field Operations</b>	<b>23,929,027</b>	<b>31,643,665</b>	<b>36,257,750</b>	<b>34,534,815</b>	<b>(1,722,935)</b>

Notes

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**FO - Field Operations**

**5500 - Field Operations Administration**

**Section's Activity**

Administers the affairs of the Field Operations Division.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	653,003	830,500	417,700	467,200	49,500
4120 - Overtime	10,274	15,000	5,000	5,000	0
4130 - Miscellaneous (Payroll)	14,722	30,000	30,000	10,000	(20,000)
<b>Personnel Services</b>	<b>677,999</b>	<b>875,500</b>	<b>452,700</b>	<b>482,200</b>	<b>29,500</b>
4160 - Meals, Mileage & Uniform Allowances	878	3,600	1,000	5,000	4,000
4230 - Emergency & Contracted Road Repairs	0	0	8,500,000	6,800,000	(1,700,000)
4250 - Other Contractual Services	87,114	144,000	450,000	375,000	(75,000)
4270 - Professional Services	0	50,000	110,000	75,000	(35,000)
4280 - Refuse Collection & Disposal	0	0	840,000	840,000	0
4430 - Miscellaneous Supplies	72	0	0	0	0
4460 - Other Materials & Supplies	37	12,000	0	0	0
4480 - Postage	45	0	0	0	0
4500 - Education and Training	4,532	40,000	45,000	45,000	0
4720 - Conference Travel & Expenses	20,293	35,000	40,000	40,000	0
4815 - Repair & Maint - Equipment	0	10,000	0	0	0
4910 - Miscellaneous Fees & Registration	0	0	0	0	0
4915 - Miscellaneous Financial Expenses	170,489	0	0	0	0
8050 - Equipment (under \$5,000)	96,952	60,170	3,000	0	(3,000)
<b>Materials, Supplies and Services</b>	<b>380,411</b>	<b>354,770</b>	<b>9,989,000</b>	<b>8,180,000</b>	<b>(1,809,000)</b>
<b>Total Field Operations Administration</b>	<b>1,058,411</b>	<b>1,230,270</b>	<b>10,441,700</b>	<b>8,662,200</b>	<b>(1,779,500)</b>

**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	0	0	443,900	477,200	33,300
4120 - Overtime	0	0	10,000	10,000	0
4130 - Miscellaneous (Payroll)	0	0	40,000	40,000	0
<b>Personnel Services</b>	<b>0</b>	<b>0</b>	<b>493,900</b>	<b>527,200</b>	<b>33,300</b>
4160 - Meals; Mileage & Uniform Allowances	0	0	3,500	3,500	0
4250 - Other Contractual Services	0	0	125,000	0	(125,000)
4460 - Other Materials & Supplies	0	0	10,000	10,000	0
4815 - Repair & Maint - Equipment	0	0	10,000	10,000	0
8050 - Equipment (under \$5,000)	0	0	28,500	0	(28,500)
<b>Materials, Supplies and Services</b>	<b>0</b>	<b>0</b>	<b>177,000</b>	<b>23,500</b>	<b>(153,500)</b>
1270 - General Plant & Equip (over \$5,000)	0	0	40,000	65,000	25,000
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>40,000</b>	<b>65,000</b>	<b>25,000</b>
<b>Total Technical &amp; Operational Support Branch</b>	<b>0</b>	<b>0</b>	<b>710,900</b>	<b>615,700</b>	<b>(95,200)</b>

**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 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
<b>4110 - Salaries &amp; Wages</b>	942,480	1,045,800	1,216,200	1,435,900	219,700
4120 - Overtime	4,296	120,000	60,000	60,000	0
<b>4130 - Miscellaneous (Payroll)</b>	28,846	36,000	45,000	40,000	(5,000)
<b>Personnel Services</b>	<b>975,622</b>	<b>1,201,800</b>	<b>1,321,200</b>	<b>1,535,900</b>	<b>214,700</b>
1120 - Meters (Storeroom)	581,759	1,200,000	1,500,000	2,200,000	700,000
<b>1125 - AMR Materials &amp; Supplies (Storeroom)</b>	17,172	2,000,000	2,000,000	500,000	(1,500,000)
4160 - Meals, Mileage & Uniform Allowances	1,888	3,000	3,000	3,000	0
<b>4250 - Other Contractual Services</b>	6,224	27,400	25,000	25,000	0
4460 - Other Materials & Supplies	34,176	24,000	30,000	30,000	0
<b>4815 - Repair &amp; Maint - Equipment</b>	2,847	0	0	0	0
8050 - Equipment (under \$5,000)	63,985	10,170	43,700	13,075	(30,625)
<b>Materials, Supplies and Services</b>	<b>708,052</b>	<b>3,264,570</b>	<b>3,601,700</b>	<b>2,771,075</b>	<b>(830,625)</b>
1270 - General Plant & Equip (over \$5,000)	35,000	100,000	244,000	0	(244,000)
<b>Equipment</b>	<b>35,000</b>	<b>100,000</b>	<b>244,000</b>	<b>0</b>	<b>(244,000)</b>
<b>Total Technical &amp; Operational Support Branch</b>	<b>1,718,674</b>	<b>4,566,370</b>	<b>5,166,900</b>	<b>4,306,975</b>	<b>(859,925)</b>

**Budget Highlights**



**Board of Water Supply  
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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	272,032	318,300	312,400	337,700	25,300
4120 - Overtime	4,392	6,000	6,000	5,000	(1,000)
4130 - Miscellaneous (Payroll)	0	30,000	30,000	10,000	(20,000)
<b>Personnel Services</b>	<b>276,424</b>	<b>354,300</b>	<b>348,400</b>	<b>352,700</b>	<b>4,300</b>
1110 - Materials & Supplies (Storeroom)	1,376,405	2,000,000	2,000,000	1,600,000	(400,000)
4160 - Meals; Mileage & Uniform Allowances	1,944	4,000	4,000	4,000	0
4250 - Other Contractual Services	0	0	0	0	0
4265 - Printing	2,182	0	0	0	0
4420 - Hauling Charges	440	160,000	160,000	160,000	0
4460 - Other Materials & Supplies	53,956	70,000	70,000	770,000	700,000
4923 - Store Materials & Expense	584,433	700,000	750,000	750,000	0
8050 - Equipment (under \$5,000)	3,430	7,050	1,800	0	(1,800)
<b>Materials, Supplies and Services</b>	<b>2,022,790</b>	<b>2,941,050</b>	<b>2,985,800</b>	<b>3,284,000</b>	<b>298,200</b>
<b>Total Technical &amp; Operational Support Branch</b>	<b>2,299,214</b>	<b>3,295,350</b>	<b>3,334,200</b>	<b>3,636,700</b>	<b>302,500</b>

**Budget Highlights**

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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 grounds, and the maintenance of Beretania Complex buildings and corporation yards.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	0	0	228,000	228,600	600
4120 - Overtime	0	0	30,000	40,000	10,000
4130 - Miscellaneous (Payroll)	0	0	59,600	64,800	5,200
<b>Personnel Services</b>	<b>0</b>	<b>0</b>	<b>317,600</b>	<b>333,400</b>	<b>15,800</b>
4160 - Meals, Mileage & Uniform Allowances	0	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Maintenance Support Branch</b>	<b>0</b>	<b>0</b>	<b>317,600</b>	<b>333,400</b>	<b>15,800</b>

**Budget Highlights**

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**FO - Field Operations**

**5522 - Grounds Section**

**Section's Activity**

The Grounds Sections is responsible for the maintenance of grounds and landscaped areas at Beretania Complex, Halawa Garden, corporation yards, pump stations, reservoirs, and well sites; maintain 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	1,003,405	1,096,300	1,915,700	1,993,000	77,300
4120 - Overtime	54,310	60,000	70,000	50,000	(20,000)
4130 - Miscellaneous (Payroll)	43,197	73,000	60,000	70,000	10,000
<b>Personnel Services</b>	<b>1,100,912</b>	<b>1,229,300</b>	<b>2,045,700</b>	<b>2,113,000</b>	<b>67,300</b>
4160 - Meals; Mileage & Uniform Allowances	3,677	6,000	6,000	6,000	0
4250 - Other Contractual Services	105,310	580,000	1,358,000	1,000,000	(358,000)
4460 - Other Materials & Supplies	38,314	30,000	30,000	40,000	10,000
4470 - Parts and Accessories	0	0	0	0	0
4500 - Education and Training	245	0	0	0	0
4815 - Repair & Maint - Equipment	4,116	4,800	5,000	5,000	0
8050 - Equipment (under \$5,000)	9,373	10,900	11,570	12,800	1,230
<b>Materials, Supplies and Services</b>	<b>161,034</b>	<b>631,700</b>	<b>1,410,570</b>	<b>1,063,800</b>	<b>(346,770)</b>
<b>Total Maintenance Support Branch</b>	<b>1,261,946</b>	<b>1,861,000</b>	<b>3,456,270</b>	<b>3,176,800</b>	<b>(279,470)</b>

**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**

Maintains Beretania Complex buildings, Kalihi Office buildings, and Kalihi Museum

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	435,225	460,000	434,400	446,900	12,500
4120 - Overtime	14,403	13,200	15,000	30,000	15,000
4130 - Miscellaneous (Payroll)	22,948	9,000	10,000	10,000	0
<b>Personnel Services</b>	<b>472,576</b>	<b>482,200</b>	<b>459,400</b>	<b>486,900</b>	<b>27,500</b>
4160 - Meals: Mileage & Uniform Allowances	1,282	2,400	2,000	0	(2,000)
4250 - Other Contractual Services	4,230	12,000	13,000	13,000	0
4460 - Other Materials & Supplies	18,120	6,000	8,000	8,000	0
4805 - Repair & Maint - Structures	46	10,000	10,000	10,000	0
4815 - Repair & Maint - Equipment	22	0	0	0	0
8050 - Equipment (under \$5,000)	3,142	4,800	1,230	3,180	1,950
<b>Materials, Supplies and Services</b>	<b>26,842</b>	<b>35,200</b>	<b>34,230</b>	<b>34,180</b>	<b>(50)</b>
<b>Total Maintenance Support Branch</b>	<b>499,418</b>	<b>517,400</b>	<b>493,630</b>	<b>521,080</b>	<b>27,450</b>

**Budget Highlights**

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**FO - Field Operations**

**5535 - Metropolitan Field Services District**

**Section's Activity**

Administers the affairs of the Metropolitan Field Services District. 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	0	0	4,292,100	4,526,900	234,800
4120 - Overtime	0	0	700,000	1,000,000	300,000
4130 - Miscellaneous (Payroll)	0	0	335,800	358,400	22,600
<b>Personnel Services</b>	<b>0</b>	<b>0</b>	<b>5,327,900</b>	<b>5,885,300</b>	<b>557,400</b>
4160 - Meals, Mileage & Uniform Allowances	0	0	50,000	50,000	0
4250 - Other Contractual Services	0	0	477,000	177,000	(300,000)
4430 - Miscellaneous Supplies	0	0	0	6,000	6,000
4460 - Other Materials & Supplies	0	0	90,000	90,000	0
4805 - Repair & Maint - Structures	0	0	50,000	50,000	0
4815 - Repair & Maint - Equipment	0	0	5,000	15,000	10,000
4910 - Miscellaneous Fees & Registration	0	0	0	0	0
8050 - Equipment (under \$5,000)	0	0	28,400	55,600	27,200
<b>Materials, Supplies and Services</b>	<b>0</b>	<b>0</b>	<b>700,400</b>	<b>443,600</b>	<b>(256,800)</b>
1270 - General Plant & Equip (over \$5,000)	0	0	0	20,000	20,000
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>	<b>20,000</b>
<b>Total Metropolitan Field Services District</b>	<b>0</b>	<b>0</b>	<b>6,028,300</b>	<b>6,348,900</b>	<b>320,600</b>

**Budget Highlights**

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**FO - Field Operations**

**5540 - Suburban Field Services District**

**Section's Activity**

Administers the affairs of the Suburban Field Services Branch. 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	80,548	141,600	95,100	102,600	7,500
4120 - Overtime	382	0	1,000	0	(1,000)
<b>Personnel Services</b>	<b>80,930</b>	<b>141,600</b>	<b>96,100</b>	<b>102,600</b>	<b>6,500</b>
4160 - Meals; Mileage & Uniform Allowances	28	0	0	0	0
4250 - Other Contractual Services	2,112	0	0	1,000	1,000
4430 - Miscellaneous Supplies	0	0	1,000	4,000	3,000
<b>Materials, Supplies and Services</b>	<b>2,140</b>	<b>0</b>	<b>1,000</b>	<b>5,000</b>	<b>4,000</b>
1270 - General Plant & Equip (over \$5,000)	0	0	0	20,000	20,000
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>	<b>20,000</b>
<b>Total Administration Section</b>	<b>83,070</b>	<b>141,600</b>	<b>97,100</b>	<b>127,600</b>	<b>30,500</b>

**Budget Highlights**



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**FO - Field Operations**

**5541 - Manana Section**

**Section's Activity**

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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	1,507,818	1,850,300	1,777,000	1,810,400	33,400
4120 - Overtime	299,976	300,000	300,000	500,000	200,000
4130 - Miscellaneous (Payroll)	69,922	177,000	161,600	142,600	(19,000)
<b>Personnel Services</b>	<b>1,877,716</b>	<b>2,327,300</b>	<b>2,238,600</b>	<b>2,453,000</b>	<b>214,400</b>
4160 - Meals; Mileage & Uniform Allowances	16,206	20,400	20,000	20,000	0
4250 - Other Contractual Services	4,134	15,000	15,000	15,000	0
4460 - Other Materials & Supplies	53,649	30,000	30,000	60,000	30,000
4500 - Education and Training	0	0	0	0	0
4815 - Repair & Maint - Equipment	1,506	6,000	5,000	5,000	0
4910 - Miscellaneous Fees & Registration	40	0	0	0	0
8050 - Equipment (under \$5,000)	11,843	10,600	19,200	55,450	36,250
<b>Materials, Supplies and Services</b>	<b>87,377</b>	<b>82,000</b>	<b>89,200</b>	<b>155,450</b>	<b>66,250</b>
<b>Total Administration Section</b>	<b>1,965,093</b>	<b>2,409,300</b>	<b>2,327,800</b>	<b>2,608,450</b>	<b>280,650</b>

**Budget Highlights**

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**FO - Field Operations**

**5542 - Wahiawa Section**

**Section's Activity**

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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	691,172	667,800	645,300	701,400	56,100
4120 - Overtime	143,541	125,000	155,000	160,000	5,000
4130 - Miscellaneous (Payroll)	30,740	70,000	56,400	56,600	200
<b>Personnel Services</b>	<b>865,452</b>	<b>862,800</b>	<b>856,700</b>	<b>918,000</b>	<b>61,300</b>
4160 - Meals; Mileage & Uniform Allowances	7,363	9,000	11,000	11,000	0
4250 - Other Contractual Services	0	1,400	0	0	0
4410 - Gasoline	0	0	0	0	0
4460 - Other Materials & Supplies	15,041	8,000	8,000	12,000	4,000
4815 - Repair & Maint - Equipment	500	2,000	3,000	3,000	0
4910 - Miscellaneous Fees & Registration	0	0	0	0	0
8050 - Equipment (under \$5,000)	0	11,000	9,900	3,800	(6,100)
<b>Materials, Supplies and Services</b>	<b>22,905</b>	<b>31,400</b>	<b>31,900</b>	<b>29,800</b>	<b>(2,100)</b>
<b>Total Administration Section</b>	<b>888,357</b>	<b>894,200</b>	<b>888,600</b>	<b>947,800</b>	<b>59,200</b>

**Budget Highlights**

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**FO - Field Operations**

**5543 - Waianae Section**

**Section's Activity**

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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	647,881	695,800	776,900	796,800	19,900
4120 - Overtime	197,903	190,000	230,000	360,000	130,000
4130 - Miscellaneous (Payroll)	40,658	75,000	81,200	73,800	(7,400)
<b>Personnel Services</b>	<b>886,442</b>	<b>960,800</b>	<b>1,088,100</b>	<b>1,230,600</b>	<b>142,500</b>
4160 - Meals, Mileage & Uniform Allowances	10,877	9,000	17,000	17,000	0
4250 - Other Contractual Services	0	700	0	0	0
4460 - Other Materials & Supplies	5,107	6,000	6,200	7,000	800
4815 - Repair & Maint - Equipment	1,862	2,000	2,500	2,500	0
4910 - Miscellaneous Fees & Registration	40	0	0	0	0
8050 - Equipment (under \$5,000)	4,253	4,500	4,400	19,410	15,010
<b>Materials, Supplies and Services</b>	<b>22,139</b>	<b>22,200</b>	<b>30,100</b>	<b>45,910</b>	<b>15,810</b>
<b>Total Administration Section</b>	<b>908,581</b>	<b>983,000</b>	<b>1,118,200</b>	<b>1,276,510</b>	<b>158,310</b>

**Budget Highlights**

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**FO - Field Operations**

**5560 - Windward Branch**

**Section's Activity**

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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	1,135,665	1,461,400	1,609,500	1,556,100	(53,400)
4120 - Overtime	128,020	155,000	130,000	250,000	120,000
4130 - Miscellaneous (Payroll)	70,526	153,000	102,400	117,600	15,200
<b>Personnel Services</b>	<b>1,334,211</b>	<b>1,769,400</b>	<b>1,841,900</b>	<b>1,923,700</b>	<b>81,800</b>
4160 - Meals; Mileage & Uniform Allowances	8,615	12,000	12,000	12,000	0
4250 - Other Contractual Services	890	2,500	0	6,000	6,000
4430 - Miscellaneous Supplies	0	0	0	0	0
4460 - Other Materials & Supplies	12,804	14,000	14,000	14,000	0
4500 - Education and Training	235	0	0	0	0
4815 - Repair & Maint - Equipment	785	0	2,500	2,500	0
4910 - Miscellaneous Fees & Registration	0	0	0	0	0
8050 - Equipment (under \$5,000)	11,650	14,300	6,150	14,500	8,350
<b>Materials, Supplies and Services</b>	<b>34,978</b>	<b>42,800</b>	<b>34,650</b>	<b>49,000</b>	<b>14,350</b>
<b>Total Administration Section</b>	<b>1,369,189</b>	<b>1,812,200</b>	<b>1,876,550</b>	<b>1,972,700</b>	<b>96,150</b>

**Budget Highlights**

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**FO - Field Operations**

**5510 - Distribution Branch Administration**

**Section's Activity**

The Distribution Branch directs and coordinates the activities pertaining to maintenance of pipelines, appurtenances, buildings and corporation yards; coordinates and directs the maintenance of grounds; provides clerical support to sections of the division branch.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	152,188	272,000	0	0	0
4120 - Overtime	1,455	2,400	0	0	0
4130 - Miscellaneous (Payroll)	717	10,000	0	0	0
<b>Personnel Services</b>	<b>154,360</b>	<b>284,400</b>	<b>0</b>	<b>0</b>	<b>0</b>
4160 - Meals; Mileage & Uniform Allowances	131	0	0	0	0
4230 - Emergency & Contracted Road Repairs	6,295,009	7,000,000	0	0	0
4250 - Other Contractual Services	13,080	257,400	0	0	0
4430 - Miscellaneous Supplies	8,870	7,500	0	0	0
4500 - Education and Training	136	0	0	0	0
8050 - Equipment (under \$5,000)	22,823	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>6,340,049</b>	<b>7,264,900</b>	<b>0</b>	<b>0</b>	<b>0</b>
1270 - General Plant & Equip (over \$5,000)	134,596	0	0	0	0
<b>Equipment</b>	<b>134,596</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Distribution Branch Administration</b>	<b>6,629,005</b>	<b>7,549,300</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Budget Highlights**

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**FO - Field Operations**

**5520 - Administration Unit**

**Section's Activity**

The Maintenance Section (5520 – Administration Unit, 5521 – Hydrant & Valves Unit, and 5522 – Grounds and Landscaping Unit) installs, operates and maintains valves, hydrants and appurtenances, disinfects reservoirs and mains, conducts tapping and pipe cutting operations, maintains the metropolitan gravity system, corporation yards, grounds and landscaped areas, conducts inspections of the distribution system and facilities.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	156,292	173,400	0	0	0
4120 - Overtime	44,113	10,000	0	0	0
4130 - Miscellaneous (Payroll)	5,044	11,000	0	0	0
<b>Personnel Services</b>	<b>205,449</b>	<b>194,400</b>	<b>0</b>	<b>0</b>	<b>0</b>
4160 - Meals; Mileage & Uniform Allowances	2,253	1,500	0	0	0
4230 - Emergency & Contracted Road Repairs	0	0	0	0	0
4250 - Other Contractual Services	156,800	0	0	0	0
4280 - Refuse Collection & Disposal	585,843	840,000	0	0	0
4430 - Miscellaneous Supplies	268	0	0	0	0
4460 - Other Materials & Supplies	8,065	0	0	0	0
4910 - Miscellaneous Fees & Registration	238	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>753,467</b>	<b>841,500</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Administration Unit</b>	<b>958,917</b>	<b>1,035,900</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Budget Highlights**

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**FO - Field Operations**

**5521 - Hydrants and Valves**

**Section's Activity**

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	995,001	1,549,000	0	0	0
4120 - Overtime	256,440	230,000	0	0	0
4130 - Miscellaneous (Payroll)	42,700	148,000	0	0	0
<b>Personnel Services</b>	<b>1,294,141</b>	<b>1,927,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
4160 - Meals: Mileage & Uniform Allowances	13,246	15,000	0	0	0
4250 - Other Contractual Services	15,044	0	0	0	0
4460 - Other Materials & Supplies	32,927	35,000	0	0	0
4470 - Parts and Accessories	456	0	0	0	0
4805 - Repair & Maint - Structures	36	0	0	0	0
4815 - Repair & Maint - Equipment	1,407	4,800	0	0	0
8050 - Equipment (under \$5,000)	7,151	23,300	0	0	0
<b>Materials, Supplies and Services</b>	<b>70,268</b>	<b>78,100</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Hydrants and Valves</b>	<b>1,364,409</b>	<b>2,005,100</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Budget Highlights**



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**FO - Field Operations**

**5530 - Construction**

**Section's Activity**

The Construction Section conducts all major emergency repair operations involving water mains, reservoirs and appurtenances , constructs pipelines and appurtenances and miscellaneous projects, conducts all carpentry, masonry and heavy equipment operations .

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	1,889,388	1,981,000	0	0	0
4120 - Overtime	499,981	450,000	0	0	0
4130 - Miscellaneous (Payroll)	79,096	219,000	0	0	0
<b>Personnel Services</b>	<b>2,468,464</b>	<b>2,650,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
4160 - Meals, Mileage & Uniform Allowances	27,534	36,000	0	0	0
4250 - Other Contractual Services	21,765	48,000	0	0	0
4280 - Refuse Collection & Disposal	853	0	0	0	0
4460 - Other Materials & Supplies	67,562	48,000	0	0	0
4805 - Repair & Maint - Structures	5,041	50,000	0	0	0
4815 - Repair & Maint - Equipment	2,832	0	0	0	0
4910 - Miscellaneous Fees & Registration	40	0	0	0	0
8050 - Equipment (under \$5,000)	6,672	7,775	0	0	0
<b>Materials, Supplies and Services</b>	<b>132,299</b>	<b>189,775</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Construction</b>	<b>2,600,763</b>	<b>2,839,775</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Budget Highlights**

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**FO - Field Operations**

**5550 - District Services**

**Section's Activity**

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4160 - Meals; Mileage & Uniform Allowances	237	0	0	0	0
4910 - Miscellaneous Fees & Registration	41	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>278</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total District Services</b>	<b>278</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Budget Highlights**

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**FO - Field Operations**

**5551 - Service Connections**

**Section's Activity**

Service Connections installs new service connections and meters, and maintains, repairs, and renews service connections.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	246,927	383,900	0	0	0
4120 - Overtime	46,658	48,000	0	0	0
4130 - Miscellaneous (Payroll)	26,600	67,000	0	0	0
<b>Personnel Services</b>	<b>320,185</b>	<b>498,900</b>	<b>0</b>	<b>0</b>	<b>0</b>
4160 - Meals, Mileage & Uniform Allowances	3,516	4,000	0	0	0
<b>Materials, Supplies and Services</b>	<b>3,516</b>	<b>4,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Service Connections</b>	<b>323,701</b>	<b>502,900</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Budget Highlights**

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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	4,571,873	5,511,000	5,573,900	4,924,500	(649,400)
4120 - Overtime	360,193	490,100	490,100	464,000	(26,100)
4130 - Miscellaneous (Payroll)	4,066	214,000	317,300	27,800	(289,500)
<b>Personnel Services</b>	<b>4,936,132</b>	<b>6,215,100</b>	<b>6,381,300</b>	<b>5,416,300</b>	<b>(965,000)</b>
4160 - Meals, Mileage & Uniform Allowances	16,003	22,500	24,300	17,200	(7,100)
4250 - Other Contractual Services	1,829,949	895,600	917,200	445,200	(472,000)
4260 - Advertising & Publication of Notices	301	5,000	5,000	3,000	(2,000)
4265 - Printing	348	0	0	0	0
4270 - Professional Services	0	0	0	1,500,000	1,500,000
4430 - Miscellaneous Supplies	3,783	3,000	3,000	4,000	1,000
4460 - Other Materials & Supplies	7,599	36,800	41,600	35,800	(5,800)
4500 - Education and Training	6,272	25,250	43,100	33,300	(9,800)
4720 - Conference Travel & Expenses	10,148	21,400	22,000	0	(22,000)
4815 - Repair & Maint - Equipment	3,618	5,300	5,300	5,300	0
4910 - Miscellaneous Fees & Registration	99	850	1,050	400	(650)
8050 - Equipment (under \$5,000)	864	6,200	6,150	0	(6,150)
<b>Materials, Supplies and Services</b>	<b>1,878,982</b>	<b>1,021,900</b>	<b>1,068,700</b>	<b>2,044,200</b>	<b>975,500</b>
1270 - General Plant & Equip (over \$5,000)	(15,284)	113,000	81,000	250,000	169,000
Equipment	(15,284)	113,000	81,000	250,000	169,000
<b>Total CP - Capital Projects</b>	<b>6,799,830</b>	<b>7,350,000</b>	<b>7,531,000</b>	<b>7,710,500</b>	<b>179,500</b>

**Notes**

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**CP - Capital Projects**

**5565 - Administration**

**Section's Activity**

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

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	420,051	523,800	568,300	531,000	(37,300)
4120 - Overtime	8,967	0	0	50,000	50,000
4130 - Miscellaneous (Payroll)	0	0	300	300	0
<b>Personnel Services</b>	<b>429,019</b>	<b>523,800</b>	<b>568,600</b>	<b>581,300</b>	<b>12,700</b>
4160 - Meals; Mileage & Uniform Allowances	158	200	0	500	500
4250 - Other Contractual Services	1,536,207	609,600	619,200	119,200	(500,000)
4260 - Advertising & Publication of Notices	301	5,000	5,000	3,000	(2,000)
4265 - Printing	348	0	0	0	0
4270 - Professional Services	0	0	0	1,500,000	1,500,000
4430 - Miscellaneous Supplies	3,298	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	1,970	23,500	23,500	23,500	0
4500 - Education and Training	1,390	4,650	4,650	0	(4,650)
4720 - Conference Travel & Expenses	540	5,000	2,300	0	(2,300)
4815 - Repair & Maint - Equipment	110	1,000	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	99	350	550	200	(350)
8050 - Equipment (under \$5,000)	864	0	500	0	(500)
<b>Materials, Supplies and Services</b>	<b>1,545,284</b>	<b>651,800</b>	<b>659,200</b>	<b>1,649,900</b>	<b>990,700</b>
1270 - General Plant & Equip (over \$5,000)	0	8,000	8,000	250,000	242,000
<b>Equipment</b>	<b>0</b>	<b>8,000</b>	<b>8,000</b>	<b>250,000</b>	<b>242,000</b>
<b>Total Administration</b>	<b>1,974,302</b>	<b>1,183,600</b>	<b>1,235,800</b>	<b>2,481,200</b>	<b>1,245,400</b>

**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	797,267	1,097,300	1,089,800	952,500	(137,300)
4120 - Overtime	37,111	72,000	72,000	50,000	(22,000)
4130 - Miscellaneous (Payroll)	176	14,000	4,000	0	(4,000)
<b>Personnel Services</b>	<b>834,554</b>	<b>1,183,300</b>	<b>1,165,800</b>	<b>1,002,500</b>	<b>(163,300)</b>
4160 - Meals, Mileage & Uniform Allowances	166	2,000	2,000	200	(1,800)
4430 - Miscellaneous Supplies	10	0	0	1,000	1,000
4460 - Other Materials & Supplies	1,790	2,000	2,000	0	(2,000)
4500 - Education and Training	23,560	7,500	7,500	4,000	(3,500)
4720 - Conference Travel & Expenses	2,325	3,800	3,600	0	(3,600)
8050 - Equipment (under \$5,000)	0	3,000	1,400	0	(1,400)
<b>Materials, Supplies and Services</b>	<b>27,851</b>	<b>18,300</b>	<b>16,500</b>	<b>5,200</b>	<b>(11,300)</b>
1270 - General Plant & Equip (over \$5,000)	0	32,000	0	0	0
<b>Equipment</b>	<b>0</b>	<b>32,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Design &amp; Plans Review</b>	<b>862,405</b>	<b>1,233,600</b>	<b>1,182,300</b>	<b>1,007,700</b>	<b>(174,600)</b>

**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 BWS facilities and assets; and ensures all construction, whether by the BWS or by other public and private interests, is completed in accordance with approved construction and accepted engineering practices in accordance with the Department's standards and policies, and approved construction plans and specifications

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	2,129,303	2,440,800	2,503,400	2,173,600	(329,800)
4120 - Overtime	304,589	413,000	413,000	350,000	(63,000)
4130 - Miscellaneous (Payroll)	3,890	200,000	305,000	0	(305,000)
<b>Personnel Services</b>	<b>2,437,781</b>	<b>3,053,800</b>	<b>3,221,400</b>	<b>2,523,600</b>	<b>(697,800)</b>
4160 - Meals; Mileage & Uniform Allowances	15,547	20,000	22,000	16,000	(6,000)
4250 - Other Contractual Services	20,506	24,000	30,000	30,000	0
4430 - Miscellaneous Supplies	192	500	500	500	0
4460 - Other Materials & Supplies	2,689	6,500	6,500	4,000	(2,500)
4500 - Education and Training	170	6,800	24,050	22,000	(2,050)
4720 - Conference Travel & Expenses	3,782	7,600	9,200	0	(9,200)
4910 - Miscellaneous Fees & Registration	0	500	500	200	(300)
8050 - Equipment (under \$5,000)	0	0	1,500	0	(1,500)
<b>Materials, Supplies and Services</b>	<b>42,885</b>	<b>65,900</b>	<b>94,250</b>	<b>72,700</b>	<b>(21,550)</b>
1270 - General Plant & Equip (over \$5,000)	0	24,000	24,000	0	(24,000)
<b>Equipment</b>	<b>0</b>	<b>24,000</b>	<b>24,000</b>	<b>0</b>	<b>(24,000)</b>
<b>Total Construction</b>	<b>2,480,667</b>	<b>3,143,700</b>	<b>3,339,650</b>	<b>2,596,300</b>	<b>(743,350)</b>

**Budget Highlights**



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**CP - Capital Projects**

**5580 - Support**

**Section's Activity**

The Engineering 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, and 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, and develops and maintains the Department's water system standards and conducts research and product trials to evaluate new materials and equipment.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	624,509	746,200	732,600	674,400	(58,200)
4120 - Overtime	1,909	3,000	3,000	4,000	1,000
4130 - Miscellaneous (Payroll)	0	0	4,000	8,500	4,500
<b>Personnel Services</b>	<b>626,418</b>	<b>749,200</b>	<b>739,600</b>	<b>686,900</b>	<b>(52,700)</b>
4160 - Meals; Mileage & Uniform Allowances	20	100	100	100	0
4250 - Other Contractual Services	16,269	12,000	18,000	21,000	3,000
4430 - Miscellaneous Supplies	283	0	0	0	0
4460 - Other Materials & Supplies	878	3,600	3,600	3,600	0
4500 - Education and Training	(18,848)	4,500	4,500	5,700	1,200
4720 - Conference Travel & Expenses	950	2,500	2,300	0	(2,300)
4815 - Repair & Maint - Equipment	3,508	4,300	4,300	4,300	0
8050 - Equipment (under \$5,000)	0	2,200	1,250	0	(1,250)
<b>Materials, Supplies and Services</b>	<b>3,060</b>	<b>29,200</b>	<b>34,050</b>	<b>34,700</b>	<b>650</b>
1270 - General Plant & Equip (over \$5,000)	0	24,000	24,000	0	(24,000)
<b>Equipment</b>	<b>0</b>	<b>24,000</b>	<b>24,000</b>	<b>0</b>	<b>(24,000)</b>
<b>Total Support</b>	<b>629,478</b>	<b>802,400</b>	<b>797,650</b>	<b>721,600</b>	<b>(76,050)</b>

**Budget Highlights**

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**CP - Capital Projects**

**5582 - Mechanical and Electrical**

**Section's Activity**

The Mechanical and Electrical Engineering Branch oversees the design and installation of mechanical and electrical equipment and systems throughout the municipal water system; prepares plans, specifications, and cost estimates and 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 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	600,743	702,900	679,800	593,000	(86,800)
4120 - Overtime	7,616	2,100	2,100	10,000	7,900
4130 - Miscellaneous (Payroll)	0	0	4,000	19,000	15,000
<b>Personnel Services</b>	<b>608,360</b>	<b>705,000</b>	<b>685,900</b>	<b>622,000</b>	<b>(63,900)</b>
4160 - Meals; Mileage & Uniform Allowances	112	200	200	400	200
4250 - Other Contractual Services	256,967	250,000	250,000	275,000	25,000
4460 - Other Materials & Supplies	273	1,200	6,000	4,700	(1,300)
4500 - Education and Training	0	1,800	2,400	1,600	(800)
4720 - Conference Travel & Expenses	2,550	2,500	4,600	0	(4,600)
8050 - Equipment (under \$5,000)	0	1,000	1,500	0	(1,500)
<b>Materials, Supplies and Services</b>	<b>259,902</b>	<b>256,700</b>	<b>264,700</b>	<b>281,700</b>	<b>17,000</b>
1270 - General Plant & Equip (over \$5,000)	(15,284)	25,000	25,000	0	(25,000)
<b>Equipment</b>	<b>(15,284)</b>	<b>25,000</b>	<b>25,000</b>	<b>0</b>	<b>(25,000)</b>
<b>Total Mechanical and Electrical</b>	<b>852,978</b>	<b>986,700</b>	<b>975,600</b>	<b>903,700</b>	<b>(71,900)</b>

**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	5,038,721	6,174,000	6,169,700	6,591,000	421,300
4120 - Overtime	740,659	650,000	697,000	673,000	(24,000)
4130 - Miscellaneous (Payroll)	62,379	141,300	57,800	150,000	92,200
<b>Personnel Services</b>	<b>5,841,760</b>	<b>6,965,300</b>	<b>6,924,500</b>	<b>7,414,000</b>	<b>489,500</b>
4160 - Meals, Mileage & Uniform Allowances	31,870	35,350	40,200	39,800	(400)
4250 - Other Contractual Services	574,123	312,500	635,900	608,800	(27,100)
4251 - Software Licenses and Maintenance	28,587	19,000	19,000	33,100	14,100
4267 - Printed forms	0	100	300	300	0
4270 - Professional Services	0	150,000	1,200,000	500,000	(700,000)
4410 - Gasoline	800,974	803,200	803,200	803,200	0
4430 - Miscellaneous Supplies	8,787	33,800	18,400	7,600	(10,800)
4440 - Motor Vehicle Parts & Accessories	448,410	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	1,521,960	2,735,200	2,743,400	2,843,000	99,600
4470 - Parts and Accessories	880,760	631,400	732,000	546,800	(185,200)
4480 - Postage	15	0	0	0	0
4500 - Education and Training	8,286	50,900	54,750	50,600	(4,150)
4670 - Telemetering	195,800	240,000	240,000	210,000	(30,000)
4720 - Conference Travel & Expenses	5,034	14,400	17,200	22,100	4,900
4805 - Repair & Maint - Structures	83,744	40,000	40,000	44,000	4,000
4815 - Repair & Maint - Equipment	812,547	1,407,200	1,352,200	839,600	(512,600)
4910 - Miscellaneous Fees & Registration	3,569	3,500	3,500	14,600	11,100
8050 - Equipment (under \$5,000)	184,355	667,000	661,700	289,000	(372,700)
<b>Materials, Supplies and Services</b>	<b>5,588,819</b>	<b>7,595,550</b>	<b>9,013,750</b>	<b>7,304,500</b>	<b>(1,709,250)</b>
1270 - General Plant & Equip (over \$5,000)	3,319,036	4,121,500	6,012,800	5,729,300	(283,500)
<b>Equipment</b>	<b>3,319,036</b>	<b>4,121,500</b>	<b>6,012,800</b>	<b>5,729,300</b>	<b>(283,500)</b>
<b>Total WSO - Water System Operations</b>	<b>14,749,615</b>	<b>18,682,350</b>	<b>21,951,050</b>	<b>20,447,800</b>	<b>(1,503,250)</b>

**Notes**

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**WSO - Water System Operations**

**5600 - Operations Administration**

**Section's Activity**

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

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	417,045	452,200	434,300	445,700	11,400
4120 - Overtime	51,108	20,000	28,000	40,000	12,000
4130 - Miscellaneous (Payroll)	0	600	600	600	0
<b>Personnel Services</b>	<b>468,153</b>	<b>472,800</b>	<b>462,900</b>	<b>486,300</b>	<b>23,400</b>
4160 - Meals; Mileage & Uniform Allowances	840	600	800	800	0
4250 - Other Contractual Services	17,741	24,000	36,000	32,000	(4,000)
4251 - Software Licenses and Maintenance	0	15,000	15,000	0	(15,000)
4270 - Professional Services	0	150,000	1,200,000	500,000	(700,000)
4430 - Miscellaneous Supplies	4,341	4,800	6,000	6,000	0
4460 - Other Materials & Supplies	9,664	0	0	0	0
4470 - Parts and Accessories	468	0	0	0	0
4500 - Education and Training	350	1,700	1,700	1,500	(200)
4720 - Conference Travel & Expenses	4,384	3,200	2,800	6,500	3,700
4815 - Repair & Maint - Equipment	1,870	0	0	0	0
4910 - Miscellaneous Fees & Registration	1,419	600	600	4,500	3,900
8050 - Equipment (under \$5,000)	6,198	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>47,274</b>	<b>199,900</b>	<b>1,262,900</b>	<b>551,300</b>	<b>(711,600)</b>
<b>Total Operations Administration</b>	<b>515,426</b>	<b>672,700</b>	<b>1,725,800</b>	<b>1,037,600</b>	<b>(688,200)</b>

**Budget Highlights**

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**WSO - Water System Operations**

**5610 - Plant Operations**

**Section's Activity**

The Pumps 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
<b>4110 - Salaries &amp; Wages</b>	407,210	261,500	256,100	308,800	52,700
4120 - Overtime	19,603	9,000	14,000	20,000	6,000
<b>4130 - Miscellaneous (Payroll)</b>	4,000	27,200	1,200	1,200	0
<b>Personnel Services</b>	<b>430,813</b>	<b>297,700</b>	<b>271,300</b>	<b>330,000</b>	<b>58,700</b>
4160 - Meals, Mileage & Uniform Allowances	758	300	700	1,000	300
<b>4250 - Other Contractual Services</b>	<b>269,088</b>	<b>4,800</b>	<b>12,000</b>	<b>0</b>	<b>(12,000)</b>
4251 - Software Licenses and Maintenance	25,912	0	0	28,000	28,000
<b>4430 - Miscellaneous Supplies</b>	<b>2,675</b>	<b>27,000</b>	<b>11,000</b>	<b>1,000</b>	<b>(10,000)</b>
4460 - Other Materials & Supplies	1,288,996	2,433,400	2,465,400	2,600,000	134,600
<b>4470 - Parts and Accessories</b>	<b>14,295</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
4500 - Education and Training	417	1,600	4,800	5,450	650
<b>4720 - Conference Travel &amp; Expenses</b>	<b>650</b>	<b>1,200</b>	<b>5,600</b>	<b>3,000</b>	<b>(2,600)</b>
4805 - Repair & Maint - Structures	83,709	36,000	36,000	40,000	4,000
<b>4815 - Repair &amp; Maint - Equipment</b>	<b>542,119</b>	<b>864,200</b>	<b>838,200</b>	<b>574,600</b>	<b>(263,600)</b>
4910 - Miscellaneous Fees & Registration	1,240	0	0	7,200	7,200
<b>8050 - Equipment (under \$5,000)</b>	<b>5,490</b>	<b>24,000</b>	<b>25,000</b>	<b>2,000</b>	<b>(23,000)</b>
<b>Materials, Supplies and Services</b>	<b>2,235,349</b>	<b>3,392,500</b>	<b>3,398,700</b>	<b>3,262,250</b>	<b>(136,450)</b>
1270 - General Plant & Equip (over \$5,000)	0	10,000	40,000	3,200	(36,800)
<b>Equipment</b>	<b>0</b>	<b>10,000</b>	<b>40,000</b>	<b>3,200</b>	<b>(36,800)</b>
<b>Total Plant Operations</b>	<b>2,666,162</b>	<b>3,700,200</b>	<b>3,710,000</b>	<b>3,595,450</b>	<b>(114,550)</b>

**Budget Highlights**

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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	458,326	556,900	603,100	672,300	69,200
4120 - Overtime	119,574	144,000	138,000	120,000	(18,000)
4130 - Miscellaneous (Payroll)	7,000	13,000	6,000	21,000	15,000
<b>Personnel Services</b>	<b>584,900</b>	<b>713,900</b>	<b>747,100</b>	<b>813,300</b>	<b>66,200</b>
4160 - Meals; Mileage & Uniform Allowances	6,116	7,000	7,000	7,000	0
4460 - Other Materials & Supplies	11,610	36,000	36,000	19,200	(16,800)
4470 - Parts and Accessories	143,453	142,000	142,000	100,600	(41,400)
4500 - Education and Training	115	4,800	4,900	4,200	(700)
4720 - Conference Travel & Expenses	0	1,200	900	1,500	600
4815 - Repair & Maint - Equipment	2,100	12,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	0	59,000	50,000	25,500	(24,500)
<b>Materials, Supplies and Services</b>	<b>163,394</b>	<b>262,000</b>	<b>252,800</b>	<b>170,000</b>	<b>(82,800)</b>
1270 - General Plant & Equip (over \$5,000)	0	60,000	30,000	0	(30,000)
<b>Equipment</b>	<b>0</b>	<b>60,000</b>	<b>30,000</b>	<b>0</b>	<b>(30,000)</b>
<b>Total District 1 Leeward West Section</b>	<b>748,294</b>	<b>1,035,900</b>	<b>1,029,900</b>	<b>983,300</b>	<b>(46,600)</b>

**Budget Highlights**

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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	498,677	648,800	686,000	796,500	110,500
4120 - Overtime	207,907	120,000	136,000	120,000	(16,000)
4130 - Miscellaneous (Payroll)	9,953	13,000	6,000	7,200	1,200
<b>Personnel Services</b>	<b>716,538</b>	<b>781,800</b>	<b>828,000</b>	<b>923,700</b>	<b>95,700</b>
4160 - Meals; Mileage & Uniform Allowances	8,854	6,100	8,400	8,400	0
4460 - Other Materials & Supplies	27,947	43,500	33,300	35,600	2,300
4470 - Parts and Accessories	185,440	92,200	113,000	90,000	(23,000)
4500 - Education and Training	(1,455)	4,800	4,900	3,500	(1,400)
4720 - Conference Travel & Expenses	0	1,200	900	1,500	600
4815 - Repair & Maint - Equipment	800	20,000	52,000	12,000	(40,000)
8050 - Equipment (under \$5,000)	26,370	67,000	74,000	50,000	(24,000)
<b>Materials, Supplies and Services</b>	<b>247,956</b>	<b>234,800</b>	<b>286,500</b>	<b>201,000</b>	<b>(85,500)</b>
<b>Total District 2 Central/Windward Section</b>	<b>964,494</b>	<b>1,016,600</b>	<b>1,114,500</b>	<b>1,124,700</b>	<b>10,200</b>

**Budget Highlights**



**Board of Water Supply**  
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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 Makapuu.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	409,057	611,200	594,000	660,700	66,700
4120 - Overtime	112,407	80,000	110,000	120,000	10,000
4130 - Miscellaneous (Payroll)	5,514	12,000	6,000	6,000	0
<b>Personnel Services</b>	<b>526,977</b>	<b>703,200</b>	<b>710,000</b>	<b>786,700</b>	<b>76,700</b>
4160 - Meals; Mileage & Uniform Allowances	5,158	3,300	6,000	6,500	500
4460 - Other Materials & Supplies	27,545	17,900	18,900	23,700	4,800
4470 - Parts and Accessories	161,589	103,000	133,000	107,000	(26,000)
4500 - Education and Training	350	4,800	4,900	4,200	(700)
4720 - Conference Travel & Expenses	0	1,200	900	1,500	600
4815 - Repair & Maint - Equipment	17,416	12,000	16,000	18,000	2,000
8050 - Equipment (under \$5,000)	29,960	55,200	57,500	31,000	(26,500)
<b>Materials, Supplies and Services</b>	<b>242,018</b>	<b>197,400</b>	<b>237,200</b>	<b>191,900</b>	<b>(45,300)</b>
1270 - General Plant & Equip (over \$5,000)	14,653	50,000	70,000	10,000	(60,000)
<b>Equipment</b>	<b>14,653</b>	<b>50,000</b>	<b>70,000</b>	<b>10,000</b>	<b>(60,000)</b>
<b>Total District 3 Metropolitan Section</b>	<b>783,648</b>	<b>950,600</b>	<b>1,017,200</b>	<b>988,600</b>	<b>(28,600)</b>

**Budget Highlights**

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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	412,466	669,700	730,400	785,100	54,700
4120 - Overtime	50,514	60,000	75,000	65,000	(10,000)
4130 - Miscellaneous (Payroll)	6,000	12,800	6,000	6,000	0
<b>Personnel Services</b>	<b>468,980</b>	<b>742,500</b>	<b>811,400</b>	<b>856,100</b>	<b>44,700</b>
4160 - Meals, Mileage & Uniform Allowances	2,824	5,650	5,500	5,500	0
4410 - Gasoline	9	0	0	0	0
4460 - Other Materials & Supplies	32,992	22,500	19,300	22,500	3,200
4470 - Parts and Accessories	150,822	87,200	137,000	87,200	(49,800)
4500 - Education and Training	1,050	4,800	4,900	4,200	(700)
4720 - Conference Travel & Expenses	0	1,200	900	1,500	600
4815 - Repair & Maint - Equipment	4,025	12,000	12,000	2,000	(10,000)
8050 - Equipment (under \$5,000)	681	64,300	78,500	25,300	(53,200)
<b>Materials, Supplies and Services</b>	<b>192,402</b>	<b>197,650</b>	<b>258,100</b>	<b>148,200</b>	<b>(109,900)</b>
<b>Total District 4 Leeward East Section</b>	<b>661,382</b>	<b>940,150</b>	<b>1,069,500</b>	<b>1,004,300</b>	<b>(65,200)</b>

**Budget Highlights**

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**WSO - Water System Operations**

**5615 - Control Center**

**Section's Activity**

Operates the department's island-wide water system on a 24/7 basis. 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	599,969	674,400	720,400	709,200	(11,200)
4120 - Overtime	152,464	120,000	120,000	130,000	10,000
4130 - Miscellaneous (Payroll)	9,191	9,000	2,000	4,000	2,000
<b>Personnel Services</b>	<b>761,624</b>	<b>803,400</b>	<b>842,400</b>	<b>843,200</b>	<b>800</b>
4160 - Meals; Mileage & Uniform Allowances	6,324	6,000	6,000	6,000	0
4460 - Other Materials & Supplies	933	0	0	0	0
4500 - Education and Training	1,693	4,800	4,900	4,900	0
4720 - Conference Travel & Expenses	0	1,200	1,800	2,000	200
8050 - Equipment (under \$5,000)	334	3,300	35,300	3,000	(32,300)
<b>Materials, Supplies and Services</b>	<b>9,285</b>	<b>15,300</b>	<b>48,000</b>	<b>15,900</b>	<b>(32,100)</b>
<b>Total Control Center</b>	<b>770,909</b>	<b>818,700</b>	<b>890,400</b>	<b>859,100</b>	<b>(31,300)</b>

**Budget Highlights**

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**WSO - Water System Operations**

**5616 - Technical Services**

**Section's Activity**

The Pumps and 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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	319,976	406,500	435,900	463,400	27,500
4120 - Overtime	6,153	48,000	36,000	24,000	(12,000)
4130 - Miscellaneous (Payroll)	5,000	9,800	6,000	6,000	0
<b>Personnel Services</b>	<b>331,130</b>	<b>464,300</b>	<b>477,900</b>	<b>493,400</b>	<b>15,500</b>
4160 - Meals, Mileage & Uniform Allowances	184	2,600	3,000	2,000	(1,000)
4250 - Other Contractual Services	0	0	0	0	0
4270 - Professional Services	0	0	0	0	0
4430 - Miscellaneous Supplies	175	0	0	0	0
4460 - Other Materials & Supplies	13,359	40,000	26,000	26,000	0
4470 - Parts and Accessories	54,035	60,000	60,000	20,000	(40,000)
4500 - Education and Training	3,840	4,800	4,900	4,200	(700)
4720 - Conference Travel & Expenses	0	1,200	900	1,500	600
4805 - Repair & Maint - Structures	0	0	0	0	0
4815 - Repair & Maint - Equipment	4,806	18,000	16,000	12,000	(4,000)
8050 - Equipment (under \$5,000)	296	94,300	52,000	22,500	(29,500)
<b>Materials, Supplies and Services</b>	<b>76,695</b>	<b>220,900</b>	<b>162,800</b>	<b>88,200</b>	<b>(74,600)</b>
1270 - General Plant & Equip (over \$5,000)	22,516	22,000	10,000	10,000	0
<b>Equipment</b>	<b>22,516</b>	<b>22,000</b>	<b>10,000</b>	<b>10,000</b>	<b>0</b>
<b>Total Technical Services</b>	<b>430,341</b>	<b>707,200</b>	<b>650,700</b>	<b>591,600</b>	<b>(59,100)</b>

**Budget Highlights**

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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
<b>4110 - Salaries &amp; Wages</b>	199,760	302,600	290,400	291,300	900
4120 - Overtime	2,895	36,000	24,000	16,000	(8,000)
<b>4130 - Miscellaneous (Payroll)</b>	107	12,000	2,000	2,000	0
<b>Personnel Services</b>	<b>202,761</b>	<b>350,600</b>	<b>316,400</b>	<b>309,300</b>	<b>(7,100)</b>
4160 - Meals: Mileage & Uniform Allowances	154	2,000	1,000	800	(200)
<b>4250 - Other Contractual Services</b>	77,019	96,000	203,000	137,000	(66,000)
4460 - Other Materials & Supplies	1,035	12,000	6,000	7,500	1,500
<b>4470 - Parts and Accessories</b>	100,226	72,000	72,000	72,000	0
4500 - Education and Training	1,750	2,400	2,450	2,450	0
<b>4670 - Telemetering</b>	195,800	240,000	240,000	210,000	(30,000)
4720 - Conference Travel & Expenses	0	1,200	900	1,500	600
<b>4815 - Repair &amp; Maint - Equipment</b>	0	24,000	12,000	9,000	(3,000)
8050 - Equipment (under \$5,000)	110,164	289,400	271,500	113,500	(158,000)
<b>Materials, Supplies and Services</b>	<b>486,147</b>	<b>739,000</b>	<b>808,850</b>	<b>553,750</b>	<b>(255,100)</b>
1270 - General Plant & Equip (over \$5,000)	0	303,000	313,000	47,500	(265,500)
<b>Equipment</b>	<b>0</b>	<b>303,000</b>	<b>313,000</b>	<b>47,500</b>	<b>(265,500)</b>
<b>Total Telecommunications</b>	<b>688,908</b>	<b>1,392,600</b>	<b>1,438,250</b>	<b>910,550</b>	<b>(527,700)</b>

**Budget Highlights**

**Board of Water Supply  
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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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	1,316,235	1,370,200	1,419,100	1,458,000	38,900
4120 - Overtime	18,034	13,000	16,000	18,000	2,000
4130 - Miscellaneous (Payroll)	15,614	31,900	22,000	96,000	74,000
<b>Personnel Services</b>	<b>1,349,883</b>	<b>1,415,100</b>	<b>1,457,100</b>	<b>1,572,000</b>	<b>114,900</b>
4160 - Meals, Mileage & Uniform Allowances	658	1,800	1,800	1,800	0
4250 - Other Contractual Services	209,930	187,700	184,900	179,800	(5,100)
4251 - Software Licenses and Maintenance	2,675	4,000	4,000	5,100	1,100
4267 - Printed forms	0	100	300	300	0
4410 - Gasoline	800,966	803,200	803,200	803,200	0
4430 - Miscellaneous Supplies	844	1,200	600	600	0
4440 - Motor Vehicle Parts & Accessories	448,410	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	107,880	99,900	108,500	108,500	0
4470 - Parts and Accessories	70,433	70,000	70,000	70,000	0
4480 - Postage	15	0	0	0	0
4500 - Education and Training	176	16,400	16,400	16,000	(400)
4720 - Conference Travel & Expenses	0	1,600	1,600	1,600	0
4805 - Repair & Maint - Structures	35	4,000	4,000	4,000	0
4815 - Repair & Maint - Equipment	77,731	90,000	90,000	90,000	0
4910 - Miscellaneous Fees & Registration	911	2,900	2,900	2,900	0
8050 - Equipment (under \$5,000)	4,862	10,500	17,900	16,200	(1,700)
<b>Materials, Supplies and Services</b>	<b>1,725,523</b>	<b>1,745,300</b>	<b>1,758,100</b>	<b>1,752,000</b>	<b>(6,100)</b>
1270 - General Plant & Equip (over \$5,000)	3,281,867	3,676,500	5,549,800	5,658,600	108,800
<b>Equipment</b>	<b>3,281,867</b>	<b>3,676,500</b>	<b>5,549,800</b>	<b>5,658,600</b>	<b>108,800</b>
<b>Total Automotive</b>	<b>6,357,273</b>	<b>6,836,900</b>	<b>8,765,000</b>	<b>8,982,600</b>	<b>217,600</b>

**Budget Highlights**

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**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 Kakaako. The use of cold seawater for building cooling conserves potable water and energy that would otherwise be used in conventional mechanical cooling systems.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
<b>4110 - Salaries &amp; Wages</b>	0	220,000	0	0	0
<b>Personnel Services</b>	0	220,000	0	0	0
4250 - Other Contractual Services	345	0	200,000	260,000	60,000
<b>4430 - Miscellaneous Supplies</b>	753	800	800	0	(800)
4460 - Other Materials & Supplies	0	30,000	30,000	0	(30,000)
<b>4470 - Parts and Accessories</b>	0	5,000	5,000	0	(5,000)
4815 - Repair & Maint - Equipment	161,679	355,000	304,000	110,000	(194,000)
<b>Materials, Supplies and Services</b>	<b>162,777</b>	<b>390,800</b>	<b>539,800</b>	<b>370,000</b>	<b>(169,800)</b>
<b>Total Ocean Cooling</b>	<b>162,777</b>	<b>610,800</b>	<b>539,800</b>	<b>370,000</b>	<b>(169,800)</b>

**Budget Highlights**



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**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, voice/video and call center systems.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	3,085,009	3,629,400	3,469,500	3,936,500	467,000
4120 - Overtime	155,318	218,400	199,000	169,400	(29,600)
4130 - Miscellaneous (Payroll)	551	12,000	12,000	13,000	1,000
<b>Personnel Services</b>	<b>3,240,878</b>	<b>3,859,800</b>	<b>3,680,500</b>	<b>4,118,900</b>	<b>438,400</b>
4160 - Meals; Mileage & Uniform Allowances	734	3,600	3,800	4,500	700
4250 - Other Contractual Services	5,918,175	7,024,937	7,383,065	6,410,533	(972,532)
4251 - Software Licenses and Maintenance	2,311,974	2,208,360	2,483,343	2,529,351	46,008
4255 - Other Services	64,895	0	0	0	0
4265 - Printing	0	0	5,000	0	(5,000)
4430 - Miscellaneous Supplies	5,784	4,150	3,900	3,700	(200)
4460 - Other Materials & Supplies	112,431	122,800	127,800	144,500	16,700
4470 - Parts and Accessories	19,009	12,500	12,000	15,000	3,000
4480 - Postage	49,819	711,275	710,000	410,100	(299,900)
4500 - Education and Training	30,777	139,600	135,895	50,750	(85,145)
4720 - Conference Travel & Expenses	36,070	83,360	88,460	29,700	(58,760)
4815 - Repair & Maint - Equipment	269,287	263,850	343,650	346,350	2,700
4910 - Miscellaneous Fees & Registration	63,400	620	620	126,700	126,080
8050 - Equipment (under \$5,000)	1,229,168	1,414,575	785,700	978,210	192,510
<b>Materials, Supplies and Services</b>	<b>10,111,523</b>	<b>11,989,627</b>	<b>12,083,233</b>	<b>11,049,394</b>	<b>(1,033,839)</b>
1270 - General Plant & Equip (over \$5,000)	245,162	371,000	415,000	335,000	(80,000)
<b>Equipment</b>	<b>245,162</b>	<b>371,000</b>	<b>415,000</b>	<b>335,000</b>	<b>(80,000)</b>
<b>Total IT - Information Technology</b>	<b>13,597,563</b>	<b>16,220,427</b>	<b>16,178,733</b>	<b>15,503,294</b>	<b>(675,439)</b>

Notes

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**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	357,024	403,900	379,200	422,000	42,800
4120 - Overtime	1,322	0	0	1,400	1,400
<b>Personnel Services</b>	<b>358,347</b>	<b>403,900</b>	<b>379,200</b>	<b>423,400</b>	<b>44,200</b>
4160 - Meals; Mileage & Uniform Allowances	367	0	200	400	200
4250 - Other Contractual Services	447,375	455,000	275,000	25,000	(250,000)
4430 - Miscellaneous Supplies	150	1,200	1,200	0	(1,200)
4460 - Other Materials & Supplies	8,706	3,600	3,600	4,800	1,200
4500 - Education and Training	75	1,600	1,500	1,500	0
4720 - Conference Travel & Expenses	9,961	15,900	16,900	7,500	(9,400)
4910 - Miscellaneous Fees & Registration	63,400	620	620	68,200	67,580
8050 - Equipment (under \$5,000)	0	5,000	5,000	0	(5,000)
<b>Materials, Supplies and Services</b>	<b>530,034</b>	<b>482,920</b>	<b>304,020</b>	<b>107,400</b>	<b>(196,620)</b>
<b>Total IT Administration</b>	<b>888,381</b>	<b>886,820</b>	<b>683,220</b>	<b>530,800</b>	<b>(152,420)</b>

**Budget Highlights**

**Board of Water Supply  
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**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	831,842	1,009,300	901,500	1,077,600	176,100
4120 - Overtime	101,803	142,400	140,000	110,000	(30,000)
4130 - Miscellaneous (Payroll)	0	12,000	12,000	12,000	0
<b>Personnel Services</b>	<b>933,645</b>	<b>1,163,700</b>	<b>1,053,500</b>	<b>1,199,600</b>	<b>146,100</b>
4160 - Meals, Mileage & Uniform Allowances	68	3,600	3,600	3,600	0
4250 - Other Contractual Services	1,672,079	3,571,000	3,239,000	1,050,000	(2,189,000)
4251 - Software Licenses and Maintenance	1,162,169	1,166,500	1,352,588	1,257,291	(95,297)
4430 - Miscellaneous Supplies	0	1,200	1,200	1,200	0
4460 - Other Materials & Supplies	819	0	0	0	0
4500 - Education and Training	0	63,300	56,800	15,500	(41,300)
4720 - Conference Travel & Expenses	13,707	24,600	27,900	7,700	(20,200)
4910 - Miscellaneous Fees & Registration	0	0	0	26,000	26,000
<b>Materials, Supplies and Services</b>	<b>2,848,842</b>	<b>4,830,200</b>	<b>4,681,088</b>	<b>2,361,291</b>	<b>(2,319,797)</b>
<b>Total Application Systems Development</b>	<b>3,782,487</b>	<b>5,993,900</b>	<b>5,734,588</b>	<b>3,560,891</b>	<b>(2,173,697)</b>

**Budget Highlights**

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**IT - Information Technology**

**5835 - Technical Projects**

**Section's Activity**

The Technical Engineering Projects (TEP) Branch plans, designs, installs, implements, manages, maintains and supports Board of Water Supply (BWS) Geographic Information System and spatial database. TEP also manages and maintains the BWS hydraulic models for currency and accuracy, in conjunction with Water Resources.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	699,880	931,200	858,800	867,800	9,000
4120 - Overtime	3,641	4,000	4,000	4,000	0
<b>Personnel Services</b>	<b>703,521</b>	<b>935,200</b>	<b>862,800</b>	<b>871,800</b>	<b>9,000</b>
4160 - Meals; Mileage & Uniform Allowances	20	0	0	0	0
4250 - Other Contractual Services	534,617	510,000	516,000	1,106,000	590,000
4251 - Software Licenses and Maintenance	145,422	240,825	227,124	332,300	105,176
4255 - Other Services	64,895	0	0	0	0
4265 - Printing	0	0	5,000	0	(5,000)
4430 - Miscellaneous Supplies	27	500	500	500	0
4460 - Other Materials & Supplies	1,746	1,200	1,200	1,200	0
4480 - Postage	64	0	0	100	100
4500 - Education and Training	0	12,000	35,000	17,500	(17,500)
4720 - Conference Travel & Expenses	10,112	25,360	25,360	6,700	(18,660)
4815 - Repair & Maint - Equipment	294	4,600	3,400	4,600	1,200
4910 - Miscellaneous Fees & Registration	0	0	0	6,500	6,500
8050 - Equipment (under \$5,000)	15,429	3,300	3,300	10,500	7,200
<b>Materials, Supplies and Services</b>	<b>772,626</b>	<b>797,785</b>	<b>816,884</b>	<b>1,485,900</b>	<b>669,016</b>
1270 - General Plant & Equip (over \$5,000)	0	15,000	15,000	15,000	0
<b>Equipment</b>	<b>0</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>0</b>
<b>Total Technical Engineering Projects</b>	<b>1,476,147</b>	<b>1,747,985</b>	<b>1,694,684</b>	<b>2,372,700</b>	<b>678,016</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**IT - Information Technology**

**5830 - Computer Operations**

**Section's Activity**

The 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 and mobile devices, cloud based services, etc.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	1,196,263	1,285,000	1,330,000	1,569,100	239,100
4120 - Overtime	48,552	72,000	55,000	54,000	(1,000)
4130 - Miscellaneous (Payroll)	551	0	0	1,000	1,000
<b>Personnel Services</b>	<b>1,245,366</b>	<b>1,357,000</b>	<b>1,385,000</b>	<b>1,624,100</b>	<b>239,100</b>
4160 - Meals, Mileage & Uniform Allowances	279	0	0	500	500
4250 - Other Contractual Services	3,264,105	2,488,937	3,353,065	4,229,533	876,468
4251 - Software Licenses and Maintenance	1,004,382	801,035	903,631	939,760	36,129
4430 - Miscellaneous Supplies	5,606	1,250	1,000	2,000	1,000
4460 - Other Materials & Supplies	101,159	118,000	123,000	138,500	15,500
4470 - Parts and Accessories	19,009	12,500	12,000	15,000	3,000
4480 - Postage	49,756	711,275	710,000	410,000	(300,000)
4500 - Education and Training	30,702	62,700	42,595	16,250	(26,345)
4720 - Conference Travel & Expenses	2,290	17,500	18,300	7,800	(10,500)
4815 - Repair & Maint - Equipment	268,993	259,250	340,250	341,750	1,500
4910 - Miscellaneous Fees & Registration	0	0	0	26,000	26,000
8050 - Equipment (under \$5,000)	1,213,739	1,406,275	777,400	967,710	190,310
<b>Materials, Supplies and Services</b>	<b>5,960,021</b>	<b>5,878,722</b>	<b>6,281,241</b>	<b>7,094,803</b>	<b>813,562</b>
1270 - General Plant & Equip (over \$5,000)	245,162	356,000	400,000	320,000	(80,000)
<b>Equipment</b>	<b>245,162</b>	<b>356,000</b>	<b>400,000</b>	<b>320,000</b>	<b>(80,000)</b>
<b>Total Operations Support</b>	<b>7,450,548</b>	<b>7,591,722</b>	<b>8,066,241</b>	<b>9,038,903</b>	<b>972,662</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	2,144,387	2,780,800	2,529,000	2,493,200	(35,800)
4120 - Overtime	158,795	262,440	213,200	117,400	(95,800)
4130 - Miscellaneous (Payroll)	20,910	112,850	102,000	30,200	(71,800)
<b>Personnel Services</b>	<b>2,324,092</b>	<b>3,156,090</b>	<b>2,844,200</b>	<b>2,640,800</b>	<b>(203,400)</b>
4160 - Meals; Mileage & Uniform Allowances	11,769	16,450	16,300	12,500	(3,800)
4220 - Collection Fees	507	400	500	0	(500)
4250 - Other Contractual Services	10,657	37,600	13,100	13,100	0
4267 - Printed forms	5,335	9,000	5,000	0	(5,000)
4270 - Professional Services	1,001,773	1,761,200	1,245,700	1,151,500	(94,200)
4410 - Gasoline	10	0	0	0	0
4430 - Miscellaneous Supplies	15,537	16,000	16,000	15,000	(1,000)
4460 - Other Materials & Supplies	1,715	4,200	4,200	3,500	(700)
4480 - Postage	6,808	15,000	0	0	0
4500 - Education and Training	6,628	7,600	11,900	400	(11,500)
4720 - Conference Travel & Expenses	2,370	6,680	7,700	800	(6,900)
4815 - Repair & Maint - Equipment	5,670	4,000	6,000	9,000	3,000
4910 - Miscellaneous Fees & Registration	825	1,300	600	400	(200)
4915 - Miscellaneous Financial Expenses	869,380	701,500	931,000	1,954,000	1,023,000
8050 - Equipment (under \$5,000)	971	4,600	2,700	9,700	7,000
<b>Materials, Supplies and Services</b>	<b>1,939,955</b>	<b>2,585,530</b>	<b>2,260,700</b>	<b>3,169,900</b>	<b>909,200</b>
1270 - General Plant & Equip (over \$5,000)	35,100	36,000	36,000	0	(36,000)
<b>Equipment</b>	<b>35,100</b>	<b>36,000</b>	<b>36,000</b>	<b>0</b>	<b>(36,000)</b>
<b>Total FIN - Finance</b>	<b>4,299,147</b>	<b>5,777,620</b>	<b>5,140,900</b>	<b>5,810,700</b>	<b>669,800</b>

**Notes**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**FIN - Finance**

**5900 - Finance Administration**

**Section's Activity**

Develop, provide and manage budget, financial and administrative support services to all levels of the department.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	349,329	361,500	348,000	341,300	(6,700)
4120 - Overtime	0	200	200	500	300
<b>Personnel Services</b>	<b>349,329</b>	<b>361,700</b>	<b>348,200</b>	<b>341,800</b>	<b>(6,400)</b>
4160 - Meals; Mileage & Uniform Allowances	0	0	0	0	0
4250 - Other Contractual Services	2,788	29,500	5,000	5,000	0
<b>4270 - Professional Services</b>	<b>355,800</b>	<b>405,000</b>	<b>208,500</b>	<b>258,500</b>	<b>50,000</b>
4430 - Miscellaneous Supplies	14,850	15,000	15,000	15,000	0
4460 - Other Materials & Supplies	6	0	0	0	0
4500 - Education and Training	6,628	3,600	5,400	400	(5,000)
<b>4720 - Conference Travel &amp; Expenses</b>	<b>2,370</b>	<b>3,120</b>	<b>3,200</b>	<b>800</b>	<b>(2,400)</b>
4815 - Repair & Maint - Equipment	835	1,000	1,000	1,000	0
<b>4910 - Miscellaneous Fees &amp; Registration</b>	<b>615</b>	<b>340</b>	<b>400</b>	<b>0</b>	<b>(400)</b>
4915 - Miscellaneous Financial Expenses	7,000	0	0	0	0
<b>8050 - Equipment (under \$5,000)</b>	<b>0</b>	<b>0</b>	<b>1,000</b>	<b>3,800</b>	<b>2,800</b>
<b>Materials, Supplies and Services</b>	<b>390,892</b>	<b>457,560</b>	<b>239,500</b>	<b>284,500</b>	<b>45,000</b>
1270 - General Plant & Equip (over \$5,000)	0	0	0	0	0
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Finance Administration</b>	<b>740,221</b>	<b>819,260</b>	<b>587,700</b>	<b>626,300</b>	<b>38,600</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	170,951	183,100	96,600	96,600	0
4120 - Overtime	1,668	2,000	2,000	2,000	0
4130 - Miscellaneous (Payroll)	115	0	0	0	0
<b>Personnel Services</b>	<b>172,734</b>	<b>185,100</b>	<b>98,600</b>	<b>98,600</b>	<b>0</b>
4160 - Meals; Mileage & Uniform Allowances	36	50	0	0	0
4270 - Professional Services	645,973	865,200	1,037,200	793,000	(244,200)
4460 - Other Materials & Supplies	0	200	200	0	(200)
4720 - Conference Travel & Expenses	0	2,000	0	0	0
4910 - Miscellaneous Fees & Registration	105	160	200	200	0
4915 - Miscellaneous Financial Expenses	862,380	700,000	931,000	1,954,000	1,023,000
<b>Materials, Supplies and Services</b>	<b>1,508,494</b>	<b>1,567,610</b>	<b>1,968,600</b>	<b>2,747,200</b>	<b>778,600</b>
<b>Total Treasury</b>	<b>1,681,229</b>	<b>1,752,710</b>	<b>2,067,200</b>	<b>2,845,800</b>	<b>778,600</b>

**Budget Highlights**



**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**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, maintains revenue accounting and statistical reports.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	984,584	1,292,400	1,191,000	1,143,500	(47,500)
4120 - Overtime	140,357	245,000	200,000	100,000	(100,000)
4130 - Miscellaneous (Payroll)	1,565	0	0	2,000	2,000
<b>Personnel Services</b>	<b>1,126,506</b>	<b>1,537,400</b>	<b>1,391,000</b>	<b>1,245,500</b>	<b>(145,500)</b>
4160 - Meals; Mileage & Uniform Allowances	11,085	16,000	16,000	12,000	(4,000)
4250 - Other Contractual Services	7,869	8,100	8,100	8,100	0
4410 - Gasoline	10	0	0	0	0
4430 - Miscellaneous Supplies	688	1,000	1,000	0	(1,000)
4460 - Other Materials & Supplies	1,703	4,000	4,000	3,500	(500)
4480 - Postage	6,808	15,000	0	0	0
4500 - Education and Training	0	1,000	1,000	0	(1,000)
4815 - Repair & Maint - Equipment	4,835	3,000	5,000	8,000	3,000
8050 - Equipment (under \$5,000)	0	2,100	0	2,500	2,500
<b>Materials, Supplies and Services</b>	<b>32,997</b>	<b>50,200</b>	<b>35,100</b>	<b>34,100</b>	<b>(1,000)</b>
1270 - General Plant & Equip (over \$5,000)	35,100	36,000	36,000	0	(36,000)
<b>Equipment</b>	<b>35,100</b>	<b>36,000</b>	<b>36,000</b>	<b>0</b>	<b>(36,000)</b>
<b>Total Rev</b>	<b>1,194,603</b>	<b>1,623,600</b>	<b>1,462,100</b>	<b>1,279,600</b>	<b>(182,500)</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	488,572	630,800	629,300	647,300	18,000
4120 - Overtime	16,417	10,440	9,000	12,900	3,900
4130 - Miscellaneous (Payroll)	18,563	62,800	102,000	28,000	(74,000)
<b>Personnel Services</b>	<b>523,552</b>	<b>704,040</b>	<b>740,300</b>	<b>688,200</b>	<b>(52,100)</b>
4160 - Meals, Mileage & Uniform Allowances	648	300	300	500	200
4220 - Collection Fees	507	400	500	0	(500)
4267 - Printed forms	5,335	9,000	5,000	0	(5,000)
4460 - Other Materials & Supplies	6	0	0	0	0
4500 - Education and Training	0	3,000	2,500	0	(2,500)
4720 - Conference Travel & Expenses	0	1,560	0	0	0
4910 - Miscellaneous Fees & Registration	105	800	0	200	200
4915 - Miscellaneous Financial Expenses	0	1,500	0	0	0
8050 - Equipment (under \$5,000)	971	1,500	700	3,100	2,400
<b>Materials, Supplies and Services</b>	<b>7,572</b>	<b>18,060</b>	<b>9,000</b>	<b>3,800</b>	<b>(5,200)</b>
<b>Total General Accounting</b>	<b>531,124</b>	<b>722,100</b>	<b>749,300</b>	<b>692,000</b>	<b>(57,300)</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**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. Fiscal Services maintains and coordinates an on-line 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. The administration of the purchasing card program for the procurement of goods and services is also a part of this branch's responsibilities. Fiscal Services designs hard copy and electronic encumbrance liquidation and payment forms for departmental use and submittal to Accounts Payable.

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	81,216	243,300	194,400	194,800	400
4120 - Overtime	0	2,800	0	0	0
4130 - Miscellaneous (Payroll)	0	50,000	0	0	0
<b>Personnel Services</b>	<b>81,216</b>	<b>296,100</b>	<b>194,400</b>	<b>194,800</b>	<b>400</b>
4160 - Meals, Mileage & Uniform Allowances	0	100	0	0	0
4460 - Other Materials & Supplies	0	0	0	0	0
4500 - Education and Training	0	0	3,000	0	(3,000)
4720 - Conference Travel & Expenses	0	0	4,500	0	(4,500)
8050 - Equipment (under \$5,000)	0	1,000	1,000	300	(700)
<b>Materials, Supplies and Services</b>	<b>0</b>	<b>1,100</b>	<b>8,500</b>	<b>300</b>	<b>(8,200)</b>
<b>Total Fiscal Services</b>	<b>81,216</b>	<b>297,200</b>	<b>202,900</b>	<b>195,100</b>	<b>(7,800)</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**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	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4110 - Salaries & Wages	69,736	69,700	69,700	69,700	0
4120 - Overtime	352	2,000	2,000	2,000	0
4130 - Miscellaneous (Payroll)	667	50	0	200	200
<b>Personnel Services</b>	<b>70,755</b>	<b>71,750</b>	<b>71,700</b>	<b>71,900</b>	<b>200</b>
4270 - Professional Services	0	491,000	0	100,000	100,000
<b>Materials, Supplies and Services</b>	<b>0</b>	<b>491,000</b>	<b>0</b>	<b>100,000</b>	<b>100,000</b>
<b>Total Systems Accounting</b>	<b>70,755</b>	<b>562,750</b>	<b>71,700</b>	<b>171,900</b>	<b>100,200</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2021**

**FC - Fixed Charges and Debt Service**

**Section's Activity**

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

Account	FY2019 Actual	FY2019 Adopted Budget	FY2020 Adopted Budget	FY2021 Proposed Budget	Change
4610 - Electric Power - Water Distrib Fac	23,335,042	22,000,000	23,000,000	25,000,000	2,000,000
4620 - Electricity	1,187,869	1,100,000	1,200,000	1,252,000	52,000
4660 - Wastewater Service Charges	108,578	110,000	110,000	110,000	0
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)	8,157,670	7,200,000	9,000,000	9,000,000	0
6020 - FICA Contributions	4,581,138	2,900,000	2,900,000	3,000,000	100,000
6100 - Health Benefits - Employees	3,318,426	3,235,957	3,407,000	3,780,000	373,000
6200 - Health Benefits - Retirees	5,465,935	5,369,224	5,500,000	5,852,000	352,000
6250 - Other Post-Emplymnt Ben (OPEB)	2,506,756	2,575,776	2,665,000	2,600,000	(65,000)
6320 - Unemployment Insurance Benefits	13,077	56,000	26,000	15,000	(11,000)
<b>Departmental Fixed Charges</b>	<b>51,974,491</b>	<b>47,846,957</b>	<b>51,108,000</b>	<b>53,909,000</b>	<b>2,801,000</b>
4670 - Telemetering	11,852	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>11,852</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
1810 - Bonds Payable	8,820,000	8,820,000	9,110,000	9,450,000	340,000
1820 - Notes Payable - State Revolving Funds (SRF)	4,382,638	3,780,000	4,522,000	6,012,000	1,490,000
7071 - Bond Interest	9,138,180	9,057,000	8,750,000	8,752,000	2,000
<b>Debt Service</b>	<b>22,340,818</b>	<b>21,657,000</b>	<b>22,382,000</b>	<b>24,214,000</b>	<b>1,832,000</b>
<b>Total Fixed Charges and Debt Service</b>	<b>74,327,160</b>	<b>69,503,957</b>	<b>73,490,000</b>	<b>78,123,000</b>	<b>4,633,000</b>

**Budget Highlights**

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## **PART II**

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# **CAPITAL IMPROVEMENT PROGRAM BUDGET**

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Board of Water Supply  
Capital Improvement Program  
FY 2021

Summary by Categories	Operating Fund	Operating Fund - SRF Eligible	Operating Fund - Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal Funds	Improvement Fund	Improvement Fund - Federal Funds	Total
I - Research and Development	2,660,000	-	-	-	-	-	-	2,660,000
II - Renewal and Replacement								
A. Pumps	7,200,000	-	3,800,000	-	-	3,200,000	2,500,000	16,700,000
B. Reservoirs	-	-	-	-	-	3,500,000	-	3,500,000
C. Pipeline	4,075,000	-	-	-	-	54,150,000	-	58,225,000
D. Treatment	2,000,000	-	-	-	-	-	-	2,000,000
E. Facilities	19,700,000	3,100,000	2,500,000	-	-	-	-	25,300,000
Category II - sub-total	32,975,000	3,100,000	6,300,000	-	-	60,850,000	2,500,000	105,725,000
III - Capacity Expansion								
A. Pumps	-	-	-	100,000	-	-	-	100,000
B. Reservoirs	-	-	-	17,800,000	-	-	-	17,800,000
C. Pipeline	-	-	-	2,150,000	10,700,000	-	-	12,850,000
D. Treatment	-	-	-	-	-	-	-	-
E. Facilities	-	-	-	-	-	3,500,000	-	3,500,000
Category III - sub-total	-	-	-	20,050,000	10,700,000	3,500,000	-	34,250,000
Total Categories I - III	35,635,000	3,100,000	6,300,000	20,050,000	10,700,000	64,350,000	2,500,000	142,635,000
Construction Cost Index Adjustment	2,652,500	310,000	630,000	1,700,000	1,070,000	5,880,000	250,000	12,492,500
Contract Adjustment Account	15,000,000	-	-	-	-	-	-	15,000,000
Capital Improvement Program Total	53,287,500	3,410,000	6,930,000	21,750,000	11,770,000	70,230,000	2,750,000	170,127,500

CIP-SUMM

Board of Water Supply  
Capital Improvement Program  
FY 2021

Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b><u>I. Research and Development</u></b>										
1. <b>Construction Management for Various BWS Construction Projects</b>	Provide construction management and training services for selected BWS construction projects.	P&E	2,000,000	-	-	-	-	-	-	2,000,000
2. <b>Pipeline Condition Assessment</b>	Condition assessment of transmission pipelines as identified by the InfoMaster decision frame work.	P&E	100,000	-	-	-	-	-	-	100,000
3. <b>Kunia Wells IV Exploratory Wells</b>	Drill, install, test pump and sample three exploratory wells (TMK 9-2-001:014 or TMK 9-4-003:010).	P&E	200,000	-	-	-	-	-	-	200,000
4. <b>Manoa Well II Exploratory Well</b>	Drill and case replacement exploratory well at existing Manoa Wells II Station (TMK: 2-9-054:033).	P&E	200,000	-	-	-	-	-	-	200,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
5. Waikele Gulch Exploratory Well Environmental Assessment	Prepare Environmental Assessment for three (3) exploratory wells at Waikele Gulch.	P&E	160,000	-	-	-	-	-	-	160,000
Total Category I - Research and Development			2,660,000	-	-	-	-	-	-	2,660,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>II. Renewal and Replacement</b>										
<b>A. Pumps</b>										
<b>6. Waihee Line Booster: Replace Pumping Units</b>	Remove all eight (8) booster pumps including pumps, motors, piping, valves, concrete supports, gauges, and all electrical components. Install two (2) new booster pumps and new free flow lines including piping, control valves, flow tubes, elevated steel platform, MCC, and appurtenant electrical equipment. Install new backfeed line connecting Waihee and Punaluu systems.	Const	-	-	3,800,000	-	-	-	-	3,800,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
7. Mariners Ridge Booster No. 2 Renovation	Remove and replace the two (2) existing booster pumps including piping, valves, flow tube, instrumentation, and appurtenant work. Install two new station isolation valves. Replace MCC including all of the motor starters. Replace transformer. Remove existing concrete block openings and louver windows and replace with hurricane proof windows and insect screens.	Const	-	-	-	-	-	-	2,500,000	2,500,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
8. Kunia Wells III Renovation	Replace MCC, replace Pump No. 1 and associated above ground piping and valves. Replace above ground piping and valves for Pumps Nos. 2 and 3. Replace flow tube and associated above ground piping, repair and repaint holding tank, and replace compressor and associated tank. Install concrete walkway, repaint building, provide new gutters and downspouts, replace window screens, and other miscellaneous building and site work.	Const	-	-	-	-	-	3,200,000	-	3,200,000
9. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	Const	5,500,000	-	-	-	-	-	-	5,500,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
10. Wilder Wells Starter Upgrades and Facility Repairs	Install starter upgrades and well station repairs.	P&E	500,000	-	-	-	-	-	-	500,000
11. Kalihi Shaft MCC Replacement	Remove and replace MCC, two pump units including piping, valves, instrumentation and appurtenances within the shaft facility.	P&E	700,000	-	-	-	-	-	-	700,000
12. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	P&E	500,000	-	-	-	-	-	-	500,000
<b>Pumps Total</b>			<b>7,200,000</b>	<b>-</b>	<b>3,800,000</b>	<b>-</b>	<b>-</b>	<b>3,200,000</b>	<b>2,500,000</b>	<b>16,700,000</b>

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>B. Reservoirs</b>										
13. Kapaa 272 Reservoir Replacement	Install 1.0 MG reservoir and appurtenances, and demolish existing 2.0 MG reservoir.	Const	-	-	-	-	-	3,500,000	-	3,500,000
<b>Reservoirs Total</b>			-	-	-	-	-	3,500,000	-	3,500,000



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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>C. Pipelines</b>										
<b>14. Wahiawa Water System Improvements, Part IV</b>	Install 16-inch mains and appurtenances along Nichols Street from Glen Avenue to Eames Street; and along Eames Street from Uuku Street to Nichols Street - approx. 1,620 lin. ft. Install 8-inch mains and appurtenances along Lehua Street from Kilani Avenue to end; along Koa Street from Kilani Avenue to Auwai Drive; along Eames Street from Nichols Street to 1735 Eames Street; along Eames Street from Glen Avenue to 1746 Eames Street; along Glen Avenue from Eames Street to Glenview Place; along Royal Palm Drive from Nichols Street to Glen Avenue; along Turner Street from Royal Palm Drive to Eames Street	Const	-	-	-	-	-	18,500,000	-	18,500,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable	Improvement Fund	Improvement Fund- Federal Funds	Total
							Fund - Federal funds			
<b>Wahiawa Water System Improvements, Part IV (continued)</b>	along Glenview Place from Glen Avenue to end; along Wonderview Place from Glenview Place to end; along Kanoelehua Place from Glen Avenue to end; along Hakuone Street from Hakuone Place to end; along Hakuone Place from Hakuone Street to end; along Hill Drive from California Avenue to Puu Place; along Puu Place from Nakeke Place to end; along Leilehua Road from 90 feet south of FH C00722 to end; along Leimomi Place from Leilehua Road to 37A Leilehua Road; along Alai Place from Leilehua Road to end; along Laniloa Place from Leilehua Road to end; along Lena Place from									

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable	Improvement Fund	Improvement Fund- Federal Funds	Total
							Fund - Federal funds			
<b>Wahiawa Water System Improvements, Part IV (continued)</b>	along Mie Place from Laniloa Place to end; along the side road north of FH C00216 from Glen Avenue to end; along the side road south of FH C00380 from Glen Avenue to end; along side road north of FH C00217 from Glen Avenue to end; and along the side road north of FH C00329 from Lakeview Circle to end - approx. 14,570 lin. ft.									

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
15. Pearl City Water System Improvements, Part IV	Install 12-inch mains and appurtenances along Huikahi Street, from Hoolehua Street to Hoolaulea Street - approx. 940 lin. ft. Install 8-inch mains and appurtenances along Palamoi Street, from Kuahaka Street to end of 8-inch main near FH L02004; along Panee Street, from Palamoi Street to Kaweloka Street; along Kaweloka Street, from Panee Street to Palamoi Street; along Kalauipo Street, from Kaweloka Street to Palamoi Street; along Kalauipo Place, from Kalauipo Street to end; along Kalai Place, from Kalauipo Street to end; along Maiha Circle, from Waimano Home Road to end;	Const	-	-	-	-	-	13,500,000	-	13,500,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>Pearl City Water System Improvements, Part IV (continued)</b>	along Maiha Place, from Maiha Circle to end; along Hooihohi Street, from Hoomoana Street to end; along Hooihohi Place, from Hooihohi Street to end; along Hoowae Street, from Hooihohi Street to Hoolele Street; along Hoomalolo Street, from Hoomoana Street to Hoolaulea Street; along Hoolele Street, from Hoolaulea Street to Hoomalolo Street; along Hoomoana Street, from Komo Mai Drive to Hookeikei Street; along Komo Mai Drive, from Hoolehua Street to Hoolaulea Street; and along Hoolehua Street, from Komo Mai Drive to end of cast iron pipe - approx. 16,420 lin. ft. Install 4-inch mains and appurtenance along Maiki Place from Maiha Circle to end - approx. 125 lin. ft.									

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
16. Wikao Street 12-Inch Water Main	Install 12-inch main and appurtenances along Wikao Street from Melemanu 808 Reservoir to Waikalani Drive - approx. 1,200 lin. ft. Restore connection of the Melemanu 808 Reservoir to the Mililani-Wahiawa 808 water system.	Const	-	-	-	-	-	2,500,000	-	2,500,000
17. McArthur Street 8-Inch Water Main	Install 8-inch mains and appurtenances along McArthur Street, from Mill Street to Waianae Valley Road - approx. 1,500 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Kawili Street, from Ihuku Street to end; and along Alamihi Street, from Kawili Street to end - approx. 1,900 lin. ft.	Const	-	-	-	-	-	3,000,000	-	3,000,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
18. Kapolei Parkway 12-Inch Water Main	Install 12-inch mains and appurtenances along Kapolei Parkway, from Park Row to Kolowaka Drive - approx. 1,100 lin. ft.	Const	-	-	-	-	-	1,100,000	-	1,100,000
19. Beretania Street Inactivate 12-Inch Blow-Off Main	Inactivate the existing 12-inch blow-off main and appurtenances at the intersection of Beretania Street and Kalakaua Avenue.	Const	250,000	-	-	-	-	-	-	250,000
20. Service Lateral Replacement at Various Locations	Install and replace service laterals at various locations.	Const	500,000	-	-	-	-	-	-	500,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
21. New Service Lateral Installations at Various Location	Install new service laterals at various locations.	Const	1,875,000	-	-	-	-	-	-	1,875,000
		P&E	500,000	-	-	-	-	-	-	500,000
22. Auloa Road and Ulukahiki Street 16-Inch Main	Install 16-inch mains and appurtenances along Auloa Road, from FH W03044 to Kalaniana'ole Highway; and along Ulukahiki Street, from Kalaniana'ole Highway to Kailua Road - approx. 7,635 lin. ft. Install 8-inch main along Ulukahiki Street, from near Manu Aloha Street to Kailua Road - approx. 250 lin. ft.	Const	-	-	-	-	-	10,000,000	-	10,000,000



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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
23. Water Main Installation & Replacement	Install and replace water mains at various locations.	Const	100,000	-	-	-	-	-	-	100,000
24. Kaimuki Avenue Area Water System Improvements	Install 8-inch mains and appurtenances along Maunaloa Avenue, from 16th Avenue to 20th Avenue; along Kaimuki Avenue, from 16th Avenue to 21st Avenue; along Pahoa Avenue, from 18th Avenue to 150 feet beyond FH M03591; along 17th Avenue, from Kilauea Avenue to Kaimuki Avenue; along 18th Avenue, from Kaimuki Avenue to Pahoa Avenue; along 19th Avenue, from Maunaloa Avenue to Pahoa Avenue; and along 20th Avenue, from Maunaloa Avenue to Pahoa Avenue - approx. 9,850 lin. ft.	P&E	-	-	-	-	-	1,100,000	-	1,100,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>25. Aiealani Place and Welelau Place 8-Inch Main</b>	Install 8-inch mains and appurtenances along Aiealani Place, from Halawa Heights Road to end and along Welelau Place, from Hoapono Place to end - approx. 1,000 lin. ft. Install 8-inch PRV and appurtenances along Halawa Heights Road, between Aiealani Place and Fernridge Place.	P&E	-	-	-	-	-	250,000	-	250,000
<b>26. Prince Edward Street and Koa Avenue 8-Inch Mains</b>	Install 8-inch mains and appurtenances along Prince Edward Street, from Kaiulani Avenue to Liliuokalani Avenue; and along Koa Street, from Kaiulani Avenue to Liliuokalani Avenue - approx. 2,050 lin. ft.	P&E	-	-	-	-	-	400,000	-	400,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
27. Lower Mariners Ridge Water System Improvements	Install 12-inch mains and appurtenances along Kaluanui Road, from Kaloaloe Street to Kaluanui Place - approx. 1,460 lin. ft. Install 8-inch mains and appurtenances along Kaloaloe Street, from Kaahue Street to Kaluanui Road; along Kaahue Street, from Kaloaloe Street to Kaluanui Road; and along Kaluanui Place from Kaluanui Road to Kaluanui Way - approx. 2,885 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Kawaiki Place, from Kaahue Street to end; along Kauku Place, from Kaahue Street to end; along Kapoho Place, from Kaahue Street to end; along Kapapala Place, from Kaahue Street to end; along Kaohe Place, from Kaahue Street to End; along Kamoi Place, from	P&E	-	-	-	-	-	1,000,000	-	1,000,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
Lower Mariners Ridge Water System Improvements (continued)	from Kaluanui Road to end; along Kakapa Place, from Kaluanui Road to end; along Kaipuhaa Place, from Kaluanui Road to end; along Kahuwai Place, from Kaluanui Road to end; along Kahauloa Place, from Kaluanui Road to end; along Kaluanui Way, from end to end - approx. 4,785 lin. ft.									

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
28. Monterey Drive and Sierra Drive 8-Inch Mains	Install 8-inch mains and appurtenances along Monterey Drive, from Lurline Drive to Mariposa Drive; and along Sierra Drive, from Wilhelmina Rise to Wilhelmina Rise near Manini Way - approx. 3,360 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Monterey Place, from Monterey Drive to end; and along Lanipili Place, from Monterey Drive to end - approx. 1,170 lin. ft.	P&E	-	-	-	-	-	550,000	-	550,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
29. Fort Weaver Road and Hapalua Street Water System Improvements	Install 16-inch mains and appurtenances along Fort Weaver, from Papipi Road to Pohakupuna Road - approx. 2,600 lin. ft. Install 8-inch mains and appurtenances along Hapalua Street, from Fort Weaver Road to Ewa Beach Road; along Nalomeli Place, from Fort Weaver Road to end; and along Popoi Place, from Fort Weaver Road to end - approx. 5,750 lin. ft.	P&E	-	-	-	-	-	1,000,000	-	1,000,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
30. Kapahulu Avenue and Leahi Avenue Water System Improvements	Install 24-inch mains and appurtenances along Kapahulu Avenue, from Kuhio Avenue to Ala Wai Boulevard - approx. 1,365 lin. ft. Install 16-inch mains and appurtenances along Kapahulu Avenue, from Kalakaua Avenue to Kuhio Avenue - approx. 880 lin. ft. Install 8-inch mains and appurtenances along Leahi Avenue, from Kapahulu Avenue to Pualei Circle - approx. 2,680 lin. ft.	P&E	-	-	-	-	-	700,000	-	700,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
31. Kaunaoa Street Area Water System Improvements	Install 30-inch mains and appurtenances along Kanaina Avenue, from Makini Street to Kaunaoa Street; and along Kaunaoa Street, from Kanaina Avenue to Campbell Avenue - approx. 915 lin. ft. Install 12-inch mains and appurtenances along Campbell Avenue, from Makini Street to Kaunaoa Street - approx. 250 lin. ft. Install 8-inch mains and appurtenances along Kaunaoa Street, from Campbell Avenue to Trousseau Street; along Makini Street, from Campbell Avenue to Trousseau Street; and along Campbell Avenue, from Monsarrat Avenue to Collins Street - 2,695 lin. ft.	P&E	-	-	-	-	-	550,000	-	550,000



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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
32. Non-Potable Irrigation Conversion for Keehi Lagoon Beach Park	Install new irrigation meter and appurtenances along Lagoon Drive for Keehi Lagoon Beach Park. Remove existing potable irrigation meter and perform cross-connection survey of irrigation system.	P&E	100,000	-	-	-	-	-	-	100,000
33. Water Sampling Stations At Various Locations	Install water sampling stations at various locations.	P&E	500,000	-	-	-	-	-	-	500,000
34. Service Lateral Replacement at Various Locations	Topographic Survey for the service lateral replacement at various locations.	P&E	150,000	-	-	-	-	-	-	150,000
35. Water Main Installation & Replacement	Install and replace water mains at various locations.	P&E	100,000	-	-	-	-	-	-	100,000
<b>Pipelines Total</b>			<b>4,075,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>54,150,000</b>	<b>-</b>	<b>58,225,000</b>

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>D. Treatment</b>										
36. <b>GAC Interior Corrosion Control at Various Locations</b>	Perform interior corrosion control of selected BWS GAC facilities.	Const	1,500,000	-	-	-	-	-	-	1,500,000
		P&E	500,000	-	-	-	-	-	-	500,000
<b>Treatment Total</b>			<b>2,000,000</b>	-	-	-	-	-	-	<b>2,000,000</b>

**E. Facilities**

37. <b>Makiki 180 Reservoir Replace Altitude Valve Assembly</b>	Replace altitude valve (AV) in AV vault, provide new titled disc check valve and emergency pump connection, install new electrical duct bank from control building to AV vault and various controls for new AV.	Const	-	-	2,500,000	-	-	-	-	2,500,000
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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>38. Pump Station Instrumentation &amp; Controls And SCADA Upgrade</b>	Upgrade instrumentation and controls equipment at various pump stations and revamp SCADA system to provide smarter functionality.	Const	1,000,000	-	-	-	-	-	-	1,000,000
<b>39. Halawa Xeriscape Garden Improvements</b>	Install landscaping and irrigation, additional ADA parking stalls, modify existing parking and pathways to meet the ADA requirements, install accessible ramp/pathway connection to different garden attractions, additional gravel area for over-flow parking, perimeter fence to enclose the entire garden, and renovating the existing office and pavilion building.	Const	3,100,000	-	-	-	-	-	-	3,100,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>40. Rehabilitation of Pipeline Tunnels: Keanu and Fort Ruger Tunnels</b>	Renovate pipeline and tunnel at Keanu and Ruger Tunnels.	Const	-	3,100,000	-	-	-	-	-	3,100,000
<b>41. Facility Repair and Renovation</b>	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	Const	6,000,000	-	-	-	-	-	-	6,000,000
<b>42. Security Improvements at Various Locations</b>	Security improvements and enhancements includes, but not limited to fencing, doors and windows, vegetation setbacks and access control systems at various BWS locations.	Const	3,600,000	-	-	-	-	-	-	3,600,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>43. Beretania Public Service Building Exterior Improvements</b>	Repave parking lot and courtyard, reconstruction curb and gutter, install curb ramps, repairs to the catwalk and fountain, and repaint the public service building exterior.	Const	3,100,000	-	-	-	-	-	-	3,100,000
<b>44. Waimalu Wells I Slope Stabilization</b>	Install slope stabilization along the downhill slope at Waimalu Wells I.	P&E	400,000	-	-	-	-	-	-	400,000
<b>45. Slope Stabilization Investigation at Various Facilities</b>	Inspect slopes and determine appropriate mitigation at various reservoir facilities.	P&E	400,000	-	-	-	-	-	-	400,000
<b>46. Halawa Xeriscape Garden Multipurpose Building</b>	Construct new multipurpose building within the Halawa Xeriscape Garden. Prepare environmental assessment.	P&E	500,000	-	-	-	-	-	-	500,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
47. Nanakuli 242 Altitude Valve	Install altitude valve and appurtenances in the vicinity of the Nanakuli Booster.	P&E	150,000	-	-	-	-	-	-	150,000
48. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	P&E	1,000,000	-	-	-	-	-	-	1,000,000
49. Monitoring Well Assessment and Repair	Provide well condition assessment and associated repair services for monitor wells.	P&E	50,000	-	-	-	-	-	-	50,000
50. Professional Services for BWS Projects	Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	P&E	300,000	-	-	-	-	-	-	300,000
51. Haiku Stairs Removal	Removal of Haiku Stairs	P&E	100,000	-	-	-	-	-	-	100,000
<b>Facilities Total</b>			<b>19,700,000</b>	<b>3,100,000</b>	<b>2,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>25,300,000</b>

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
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Total Category II - Renewal and Replacement			32,975,000	3,100,000	6,300,000	-	-	60,850,000	2,500,000.00	105,725,000

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Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>III. Capacity Expansion</b>										
<b>A. Pumps</b>										
52. Pacific Heights Booster No. 1	Land acquisition for new Pacific Heights Booster No. 1 to eliminate cross-country water main between Jack Lane and the Pacific Heights 578 Reservoir.	Land	-	-	-	100,000	-	-	-	100,000
<b>Pumps Total</b>			-	-	-	100,000	-	-	-	100,000
<b>B. Reservoirs</b>										
53. Kalawahine 180 2.0 MG Reservoir	Install 2.0 MG reservoir and appurtenances (TMK: 2-4-043:082) and 24-inch main along Auwaiolimu Street and Pensacola Street to Kinau Street - approx. 4,700 lin. ft.	Const	-	-	-	17,000,000	-	-	-	17,000,000



Board of Water Supply  
Capital Improvement Program  
FY 2021

Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
54. 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 proposed reservoir to the Farrington Highway - approx. 2,300 lin. ft.	P&E	-	-	-	800,000	-	-	-	800,000
<b>Reservoirs Total</b>			-	-		<b>17,800,000</b>		-	-	<b>17,800,000</b>

Board of Water Supply  
Capital Improvement Program  
FY 2021

Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>C. Pipelines</b>										
55. Salt Lake Boulevard 36-Inch Main - Foster Village to Aliamanu	Install 36-inch main and appurtenances along Salt Lake Boulevard, from 525 feet south of Maluna Street to Ala Liliko'i Street - approx. 4,275 lin. ft.	Const	-	-	-	-	6,700,000	-	-	6,700,000
56. Sand Island Access Road 20-Inch Mains Along Bascule Bridge	Install two 20-inch mains and appurtenances along the Sand Island Access Road Bascule bridge - approx. 3,000 lin. ft.	Const	-	-	-	-	4,000,000	-	-	4,000,000

Board of Water Supply  
Capital Improvement Program  
FY 2021

Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
57. Nimitz Highway 16-Inch Main, Waiakamilo Road to Sumner Street	Install 16-inch mains appurtenances along Nimitz Highway, from Waiakamilo Road to Sumner Street; and along Waiakamilo Road, from Nimitz Highway to Hart Street - approx. 5,960 lin. ft. Install 12-inch mains appurtenances along Hart Street, from Waiakamilo Road to end; along the Pier 31 access road, from N. Nimitz Highway to end; along the pier access road near FH no. M02371, from N. Nimitz Highway to end, along the pier access road near Alakawa Street, from N. Nimitz Highway to end and along Pier 38 Access Road, from N. Nimitz Highway to end - approx. 2,615 lin. ft.	P&E	-	-	-	1,400,000	-	-	-	1,400,000

Board of Water Supply  
Capital Improvement Program  
FY 2021

Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
58. Kalakaua Avenue 16-Inch Main, Beretania Street to Ala Wai Canal	Install 20-inch main and appurtenances along Ala Wai Boulevard, at the intersection of McCully Street - approx. 200 lin. ft. Install 16-inch main and appurtenances along Kalakaua Avenue, from Beretania Street to Ala Wai Promenade; and along Ala Wai Promenade, from Kalakaua Avenue to McCully Street - approx. 4,800 lin. ft.	P&E	-	-	-	750,000	-	-	-	750,000
<b>Pipelines Total</b>			-	-	-	2,150,000	10,700,000	-	-	12,850,000
<b>D. Treatment</b>										
<b>Treatment Total</b>			-	-	-	-	-	-	-	-

Board of Water Supply  
Capital Improvement Program  
FY 2021

Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<b>E. Facilities</b>										
59. Kapolei Base Yard Facility	Design-Build contract for installation of administration building,	Const	-	-	-	-	-	3,500,000	-	3,500,000
<b>Facilities Total</b>			-	-	-	-	-	3,500,000	-	3,500,000
<b>Total Category III - Capacity Expansion</b>										
			-	-	-	20,050,000	10,700,000	3,500,000	-	34,250,000
<b>Total Categories I - III</b>										
			35,635,000	3,100,000	6,300,000	20,050,000	10,700,000	64,350,000	2,500,000.00	142,635,000
<b>Construction Cost Index Adjustment</b>										
			2,652,500	310,000	630,000	1,700,000	1,070,000	5,880,000	250,000	12,492,500
<b>Contract Adjustment Account</b>										
			15,000,000	-	-	-	-	-	-	15,000,000

Board of Water Supply  
Capital Improvement Program  
FY 2021

Project Title	Description	Type	Operating Fund	Operating Fund-SRF Eligible	Operating Fund-Federal Funds	Special Expendable Fund	Special Expendable Fund - Federal funds	Improvement Fund	Improvement Fund- Federal Funds	Total
<hr/>										
FY2021 Capital Improvement Program Total			53,287,500	3,410,000	6,930,000	21,750,000	11,770,000	70,230,000	2,750,000.00	170,127,500



ITEM FOR INFORMATION NO. 1

"May 26, 2020

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

Jason Takaki, 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:

Jason Takaki, Program Administrator, Capital Projects Division, gave the report.

Manager Lau stated we anticipate a lot of activity before the end of this fiscal year.

Chair Andaya mentioned that the BWS has either awarded or encumbered \$24.2 million to date, and the total Capital Improvement Program (CIP) is \$127.3 million. Has the pandemic affected encumbering and awarding of contracts?

Manager Lau responded that the BWS has deferred some projects due to COVID-19. However, the Procurement staff is continuing to either telework or work on a flex schedule to get the jobs out. The staff in the Capital Projects Division has returned to working in the office to get the work out.

Manager Lau expressed his gratitude to the Capital Projects Division and Procurement for all the work they have done during this pandemic.

Mr. Jason Takaki noted there is approximately \$60 million worth of projects are out to bid right now, with bids to be opened in the next 9 days. This year's biggest project, the Kalawahine 180 Reservoir, which is budgeted at \$17 million, is scheduled to open bids today.

Chair Andaya asked for clarification on what will happen to the funds that are in the Budget but not encumbered.



Manager Lau responded that the funds go back into the Budget and carry over to the next fiscal year. The money is not lost.

Board Member Soon asked Mr. Takaki about the difference between the total CIP budget, the \$24 million awarded to date, and the \$60 million that is currently out for bid. This still leaves \$40 million that will not be awarded.

Mr. Takaki replied that this is a quarterly report, so the \$24 million awarded to date, is as of March 31. Since then, the BWS has awarded another approximately \$30 million. As stated, there is another \$60 million that BWS is waiting for the numbers. Total encumbrances could be more or less depending on the bids received.

Board Member Soon asked where do the funds go if not expended.

Manager Lau responded that the funds go back in the BWS budget and are carried forward to the next fiscal year. He pointed out that projects that were deferred were reprogrammed into the Fiscal Year 2021 budget.

Ms. Nakabayashi explained that the CIP budget is comprised of multiple fund sources: the Special Expendable Fund, the Operating Fund, and the Improvement Fund, which are the revenue bonds the BWS sells to fund some of its CIP projects. If the Operating Funded, or Cash projects, for this fiscal year lapse, these monies would lapse back into the Operating Fund. These funds would add to the BWS's working capital. If the projects funded with Improvement Fund, or Bond proceeds, lapse we may reprogram the project in a future Fiscal Year or, if appropriate, select a previously Operating Funded project to reimburse using the Improvement Funds. If the projects funded with Special Expendable fund lapse, the funds return to the Special Expendable fund to be reprogrammed in a future fiscal year.

Board Member Soon expressed his concern about the funding of projects.

Ms. Nakabayashi shared that if the projects were not encumbered and awarded this year, they would likely be re-budgeted in a future fiscal year.

Chair Andaya referred to slide 6 of the presentation below.



### Operating Fund Resources and Expenditures

(millions of dollars)

	FY 2019	FY 2020	FY 2021
	Actual	Estimated Actual	Budget
<b>Beginning Balance</b>	<b>\$ 87.7</b>	<b>\$ 51.8</b>	<b>\$ 49.9</b>
Revenues	235.7	240.7	245.1
Lapses/ Adjustments	4.9	2.5	-
<b>Total Resources</b>	<b>328.3</b>	<b>295.0</b>	<b>295.0</b>
Operating Expenditures	169.4	177.8	207.8
Capital Improvement Program	107.1	67.3	63.6
Special Ex. Fund reimbursement (Affordable & Homeless Housing Waiver Program)		---	---
<b>Total Expenditures</b>	<b>276.5</b>	<b>259.2</b>	<b>271.4</b>
<b>Ending Balance</b>	<b>\$ 51.8</b>	<b>\$ 49.9</b>	<b>\$ 23.6</b>

Ms. Nakabayashi explained the ending balance where the red arrow is pointing diagonally is the Fiscal Year 2021 operating fund carryover balance.

Manager Lau confirmed that this number is what the BWS is projecting to be at the ending of Fiscal Year 2020.

Ms. Nakabayashi stated that this figure is a projection, based on an execution percentage of the current year budget. The BWS is projecting 87 percent execution of the Fiscal Year 2020 budget, which is a part of how the carryover was projected.

Ms. Nakabayashi explained that if the execution of the budget increases or decreases, it will affect the carryover balance. Should the execution increase to a hundred percent, the carryover will be smaller. If it decreases, the carryover will be larger.

Chair Andaya confirmed that BWS could make adjustments quickly should the projected delinquencies increase or the usage and revenues decrease.

Manager Lau replied that BWS could make adjustments to the expenditures, especially in the operating Budget, but also in the CIP as part of the CIP is rate revenue funded.

Board Member Soon asked Mr. Takaki what happens if BWS has a carryover of capital funds and wants to fund another project. Would BWS come back to the Board and ask for that project to be funded?

Mr. Takaki responded that the process would be to go to the Board and ask for a budget amendment. If the total budget bottom line for the fiscal year is increased, we would conduct a public hearing.

Quarterly Capital Improvement Program Status Report  
All Divisions  
as of March 31, 2020

Quarter Awarded	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Awarded to Date	Total Budgeted
Design Contracts Awarded (#/\$)	0	\$0.00	1	\$48,447.36	7	\$4,081,754.58	0	\$0.00	\$4,130,201.94	\$18,810,000.00
Construction Contracts Awarded (#/\$)	6	\$4,440,237.52	9	\$2,912,251.16	9	\$12,709,339.98	0	\$0.00	\$20,061,828.66	\$108,400,000.00
Land Purchases (#/\$)	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	\$100,000.00
Project Totals	6	\$4,440,237.52	10	\$2,960,698.52	16	\$16,791,094.56	0	\$0.00	\$24,192,030.60	\$127,310,000.00

Quarter Completed	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Totals
Design Contracts Completed (#/\$)	1	\$115,762.07	0	\$0.00	0	\$0.00	0	\$0.00	\$115,762.07
Construction Contracts Completed (#/\$)	1	\$141,700.00	1	\$368,960.00	1	\$181,168.93	0	\$0.00	\$691,828.93
Totals	2	\$257,462.07	1	\$368,960.00	1	\$181,168.93	0	\$0.00	\$807,591.00

Ongoing Projects	
Ongoing Design Projects (#)	240
Ongoing Design Projects (\$)	\$105,544,001.84
Ongoing Construction Projects (#)	152
Ongoing Construction Projects (\$)	\$326,613,847.20

Quarterly Capital Improvement Program Status Report  
All Divisions

**DESIGN AND CONSTRUCTION PROJECTS AWARDED - THIRD QUARTER FY 2020**

Item #	Project Title	Expend Type	Budget Amount	Awarded
010X	Pump Renewal and Replacement - Hoaeae Wells: Replacement of Pump No. 6	CONST	\$134,467.81	\$134,467.81
011	Honouliuli Wells II MCC Replacement	P & E	300,000.00	486,131.72
013	Aiea Wells Renovation	P & E	400,000.00	262,697.00
014	Pump Renewal and Replacement - Mililani Wells IV: Replacement of Pumps No. 1 and No. 3	P & E	200,000.00	552,040.00
016	Akanoho Place 8-Inch Main	CONST	2,000,000.00	1,614,470.00
021	Kalaniana'ole Highway Drain Manhole Replacement	CONST	550,000.00	437,576.00
029	Pohakupuna Road and Pupu Street Area Water System Improvements	P & E	1,710,000.00	1,453,264.00
033	Kakela Drive and Mohala Way Water System Improvements	P & E	300,000.00	360,860.02
034	Ihiloa Loop and Ehupua Place Area Water System Improvements	P & E	350,000.00	583,427.00
041	GAC Interior Corrosion Control at Various Locations	CONST	297,970.00	297,970.00
043	Water Meter Transponders Replacement - Phase II	CONST	5,843,573.00	5,843,573.00
046	Security Improvements at Various Locations - Wireless and Electronic Security Support	CONST	1,000,000.00	1,000,000.00
048	Slope Stabilization Near Ekoa Place	CONST	2,400,000.00	1,634,868.17
049A	Facility Repair and Renovation - Mauna Olu 530 Reservoir Improvements	CONST	1,592,470.00	1,592,470.00
050A	Facility Reroofing at Various Locations - Kalihi Pump Station Reroofing	CONST	153,945.00	153,945.00
052A	Facility Repair and Renovation - Kuliouou Wells Access Road Repairs	P & E	383,334.84	383,334.84
<b>3rd Quarter totals</b>			<b>\$17,615,760.65</b>	<b>\$16,791,094.56</b>

**DESIGN AND CONSTRUCTION PROJECTS COMPLETED - THIRD QUARTER FY 2020**

Job #	Project Title	Completion Date	Contract Amount
19-005B	Pumping Unit Replacement - Hoaeae Wells Pump No. 5	2/18/2020	181,168.93
<b>3rd Quarter totals</b>			<b>\$181,168.93</b>

ITEM FOR INFORMATION NO. 2

"May 26, 2020

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

Chair and Members:

Subject:      Recruitment Status

Michele L. Thomas, Executive Assistant, Human Resources Office, will be presenting an update on the Recruitment Status for the period of February 2020 to April 2020.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:      Michele L. Thomas, Executive Assistant, Human Resources Office gave the report.

Board Member Sword asked whether the reference to new approvals means the same as new or open positions to fill.

Ms. Michele Thomas explained that new approvals to fill our vacant positions or positions requested to be filled by a division or program due to retirement, termination, separation, or transfers.

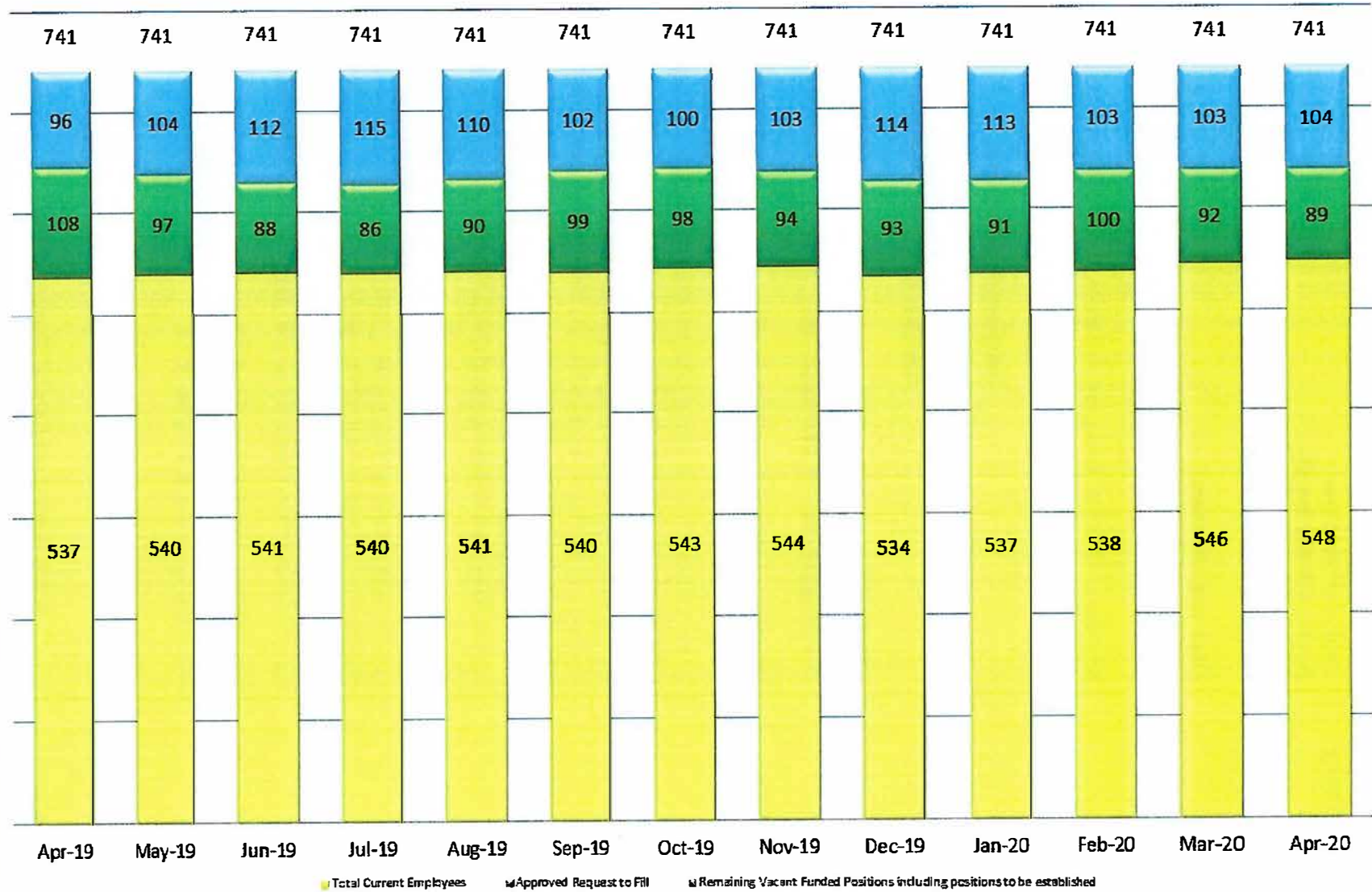
Chair Andaya asked whether there has been a surge in recruitment or applications received since the COVID-19 Pandemic outbreak.

Ms. Thomas confirmed that the BWS has received a larger volume of applications for contract positions and several updated open lists from the Department of Human Resources (DHR). The BWS highly encourages divisions to take advantage of the rise in applicants to recruit and fill our positions.

Board Member Soon inquired on the quality of the applicants.

Ms. Thomas responded we have been receiving a significant number of applications since COVID-19; however, positions requiring skill, knowledge, and experience are still harder to fill.

## Positions Filled April 1, 2019 through April 30, 2020



For the Period Feb20-Apr20 Actions: 15 New Hires, 5 Promotions, 2 Demotions, 3 Transfer, 4 Separations, 23 New approvals to fill

# BOARD OF WATER SUPPLY

City and County of Honolulu

## RECRUITMENT AND SEPARATION STATUS For Period February 29, 2020 to April 30, 2020

### Status of Positions Under Recruitment

	as of		
	2/29/2020	3/31/2020	4/30/2020
Pending DHR Open List	28	22	15
Pending IDCE	1	1	1
Pending Interview Questions	32	20	19
Pending Interviews	24	41	45
Anticipated Starts	15	8	9
Total Positions Under Recruitment	100	92	89

### Filled Positions

Month	Feb-20	Mar-20	Apr-20
Open list	7	8	4
IDCE list	3	2	1

### Separations

Month	Feb-20	Mar-20	Apr-20
Retire	0	0	1
Resign	2	0	1

#### Legend:

DHR = Department of Human Resources City and County of Honolulu

IDCE = Intra-Departmental Competitive Examination



ITEM FOR INFORMATION NO. 3

"May 26, 2020

STATUS  
UPDATE OF  
GROUNDWATER  
LEVELS AT ALL  
INDEX STATIONS  
FOR MARCH AND  
APRIL 2020

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

There were no aquifer index wells within low groundwater status for the production month of March 2020. The monthly production average for March 2020 was 124.22 million gallons per day (MGD).

The Board of Water Supply rainfall index for the month of March 2020 was 139 percent of normal, with a 5-month moving average of 111 percent. As of April 7, 2020, the Hawaii Drought Monitor shows no dry conditions for the island of Oahu.

Most monitoring wells are exhibiting increasing trends, likely due to decreased pumping because of increased rainfall and decreased water usage during the last few weeks of the COVID-19 pandemic. Production for March 2020 was 8 MGD lower compared to the 5-year monthly average of 132 MGD for March, a reduction of about 6 percent.

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. No comments and discussion.

**PRODUCTION, HEAD AND RAINFALL REPORT  
MONTH OF MARCH 2020**

**POTABLE**

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.07
WAILUPE	0.12
AINA KOA	0.14
AINA KOA II	0.86
MANOA II	0.97
PALOLO	1.18
KAIMUKI HIGH	1.64
KAIMUKI LOW	1.24
WILDER	4.55
BERETANIA HIGH	2.06
BERETANIA LOW	0.14
KALIH HIGH	3.14
KALIH LOW	2.17
KAPALAMA	0.75
KALIH SHAFT	7.72
MOANALUA	1.16
HALAWA SHAFT	13.04
KAAMILO	0.88
KALAUAO	5.00
PUNANANI	5.22
KAHUMANU	0.25
HECO WAIU	2.71
MANANA	0.19
WELLS SUBTOTAL:	55.14
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.23
GRAVITY SUBTOTAL:	0.40
HONO. SUBTOTAL:	55.54

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.37
WAIMANALO III	0.00
KUOU I	0.15
KUOU II	0.07
KUOU III	0.16
LULUKU	0.94
HAIKU	0.00
IOLEKAA	0.00
KAHALUU	0.67
KAHANA	1.01
PUNALUU I	0.00
PUNALUU II	2.74
PUNALUU III	0.95
KALUANUI	1.32
MAAKUA	0.24
HAUULA	0.27
WELLS SUBTOTAL:	8.88
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.27
WAIHEE TUNNEL	4.40
LULUKU TUNNEL	0.09
HAIKU TUNNEL	0.98
KAHALUU TUNNEL	1.25
GRAVITY SUBTOTAL:	7.19
WIND. SUBTOTAL:	16.07

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.28
OPANA	0.15
WAIALAE I	0.37
WAIALAE II	0.35
HALEIWA	0.00
WAIALUA	1.44
N.SHORE SUBTOTAL:	2.61

STATION	MGD
MILILANI (4)	
MILILANI I	3.04
MILILANI II	0.00
MILILANI III	0.58
MILILANI IV	0.42
MILILANI SUBTOTAL:	4.05

STATION	MGD
WAIHAWA (5)	
WAIHAWA	0.91
WAIHAWA II	1.83
WAIHAWA SUBTOTAL:	2.74

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.63
HALAWA 550	0.00
AIEA	1.14
AIEA GULCH 497	0.29
AIEA GULCH 550	0.19
KAONOHI I	0.96
WAIMALU I	0.00
NEWTOWN	0.87
WAIU	0.56
PEARL CITY I	0.83
PEARL CITY II	0.99
PEARL CITY III	0.30
PEARL CITY SHAFT	0.71
PEARL CITY-HALAWA SUBTOTAL:	7.47

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	1.23
WAIPIO HTS. I	0.75
WAIPIO HTS. II	0.36
WAIPIO HTS. III	1.18
WAIPAHU	3.72
WAIPAHU II	1.91
WAIPAHU III	1.38
WAIPAHU IV	2.76
KUNIA I	3.58
KUNIA II	1.93
KUNIA III	1.49
HOAEAE	5.35
HONOULIULI I	0.00
HONOULIULI II	6.83
MAKAKILO	0.21
WAIPAHU-EWA SUBTOTAL:	32.67

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.00
MAKAHA II	0.02
MAKAHA III	0.41
MAKAHA V	0.15
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.06
WAIANAE I	0.24
WAIANAE II	0.15
WAIANAE III	0.49
WELLS SUBTOTAL:	1.52
WAI. C&C TUNNEL	1.40
WAI. PLANT. TUNNELS	0.16
GRAVITY SUBTOTAL:	1.56
WAIANAE SUBTOTAL:	3.08

**NONPOTABLE**

NONPOTABLE	MGD
KALAUAO SPRINGS	0.24
BARBERS POINT WELL	1.01
GLOVER TUNNEL NP	0.33
NONPOTABLE TOTAL:	1.57

**RECYCLED WATER (FEBRUARY 2020)**

RECYCLED WATER	MGD
HONOULIULI WRF R-1	6.82
HONOULIULI WRF RO	1.11
RECYCLED WATER TOTAL:	7.93

**PRODUCTION, HEAD AND RAINFALL REPORT  
MONTH OF MARCH 2020**

**PRODUCTION SUMMARIES**

TOTAL WATER	MGD
PUMPAGE	115.08
GRAVITY	9.15
POTABLE TOTAL:	124.22
NONPOTABLE	1.57
RECYCLED WATER	7.93
TOTAL WATER:	133.72

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS		A PERMITTED USE/ BWS YLDS	B MAR 2020	C DIFF. A-B
1	HONOLULU	82.93	55.14	27.79
2	WINDWARD	25.02	11.40	13.62
3	NORTH SHORE	4.70	2.61	2.09
4	MILILANI	7.53	4.05	3.48
5	WAHIAWA	4.27	2.74	1.53
6	PEARL CITY-HALAWA	12.25	7.47	4.78
7	WAIPAHAU-EWA	50.63	32.67	17.96
8	WAIANAEE	4.34	1.52	2.82
TOTAL:		191.67	117.59	74.07

CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS		A PERMITTED USE	B MAR 2020	C DIFF. A-B
7	WAIPAHAU-EWA (BARBERS POINT WELL)	1.00	1.01	-0.01
TOTAL:		1.00	1.01	-0.01

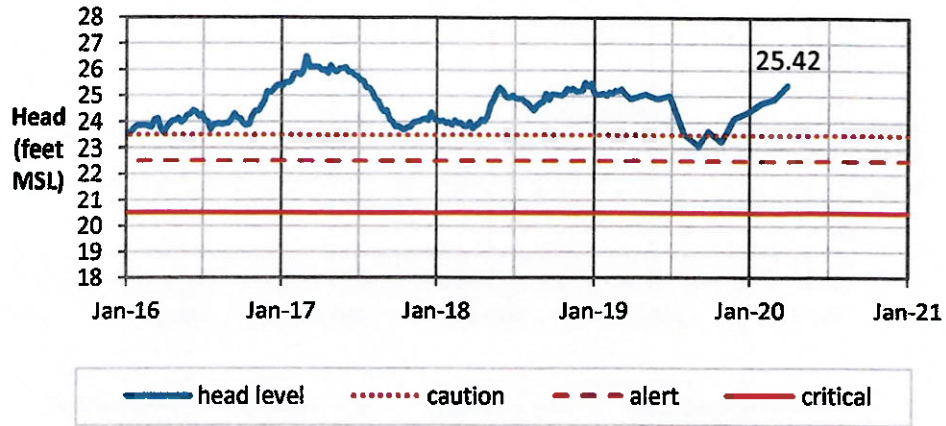
**EFFECTIVE WATER DEMAND PER DISTRICT**

IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	1.57
7	8	BARBERS PT LB	4.89

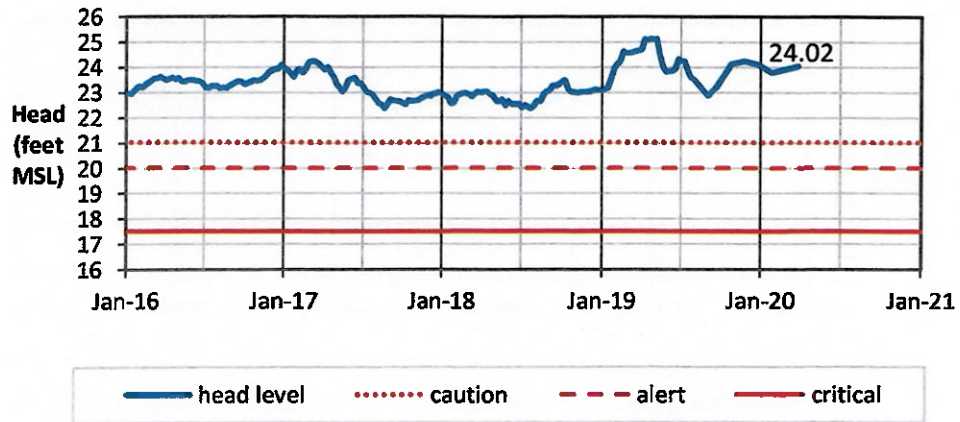
WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	55.14	1.57	-	56.71
2	WINDWARD	11.40	-	1.57	9.83
3	NORTH SHORE	2.61	-	-	2.61
4	MILILANI	4.05	-	-	4.05
5	WAHIAWA	2.74	-	-	2.74
6	PEARL CITY-HALAWA	7.47	-	-	7.47
7	WAIPAHAU-EWA	32.67	-	4.89	27.78
8	WAIANAEE	1.52	4.89	-	6.41
TOTAL:		117.59	6.46	6.46	117.59

# Head Report

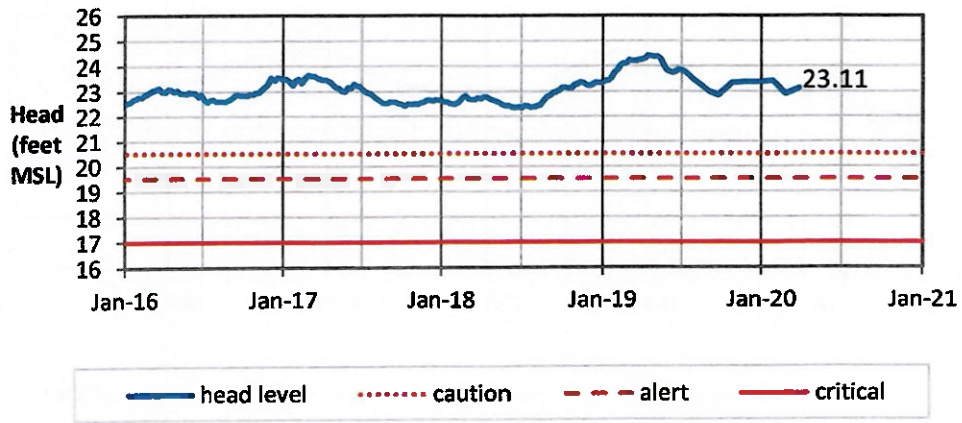
## Kaimuki 04/02/20



## Beretania 04/06/20

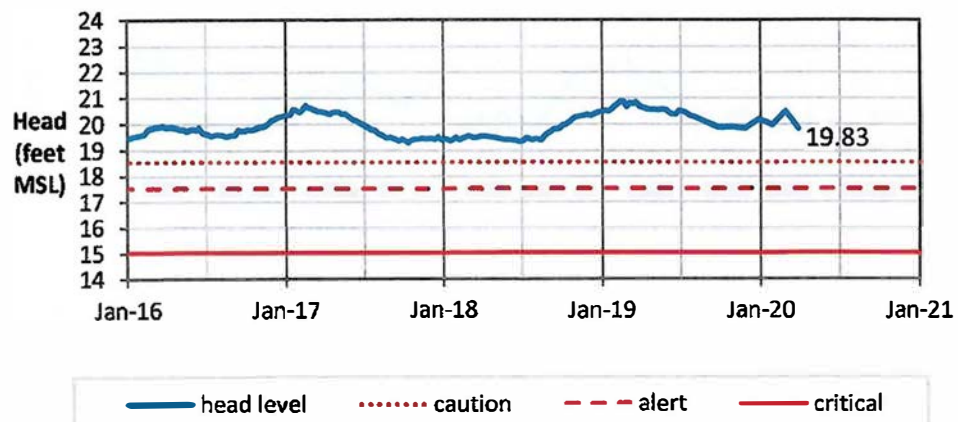


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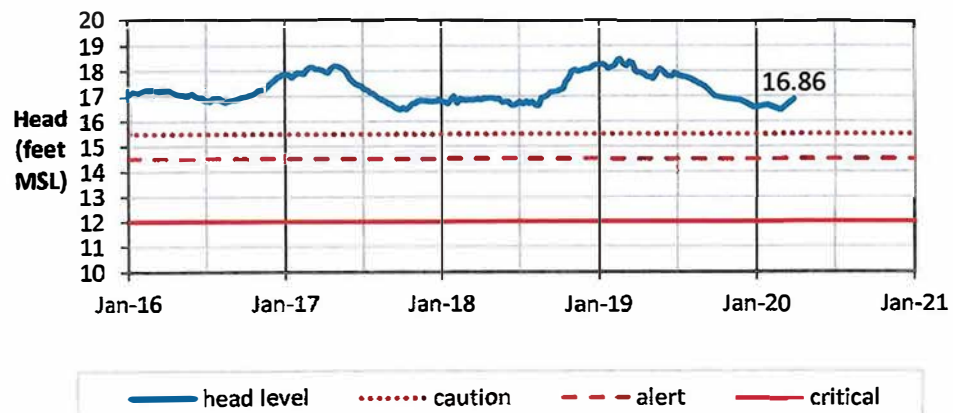


## Head Report

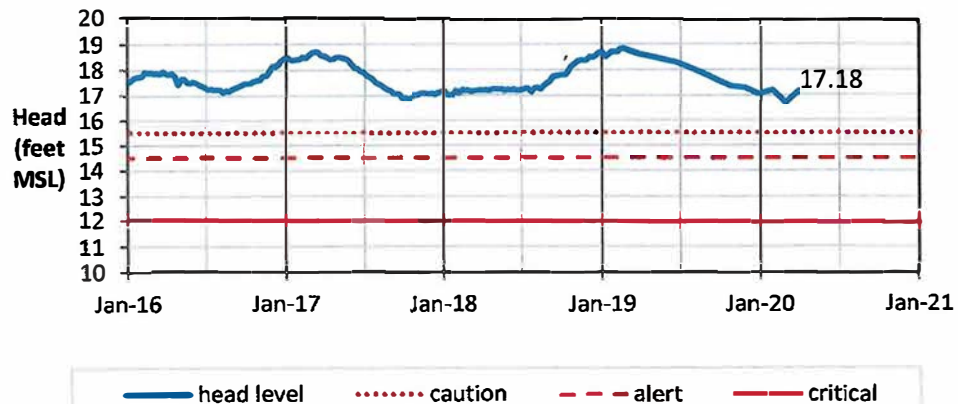
### Moanalua 04/01/20



### Halawa 04/01/20

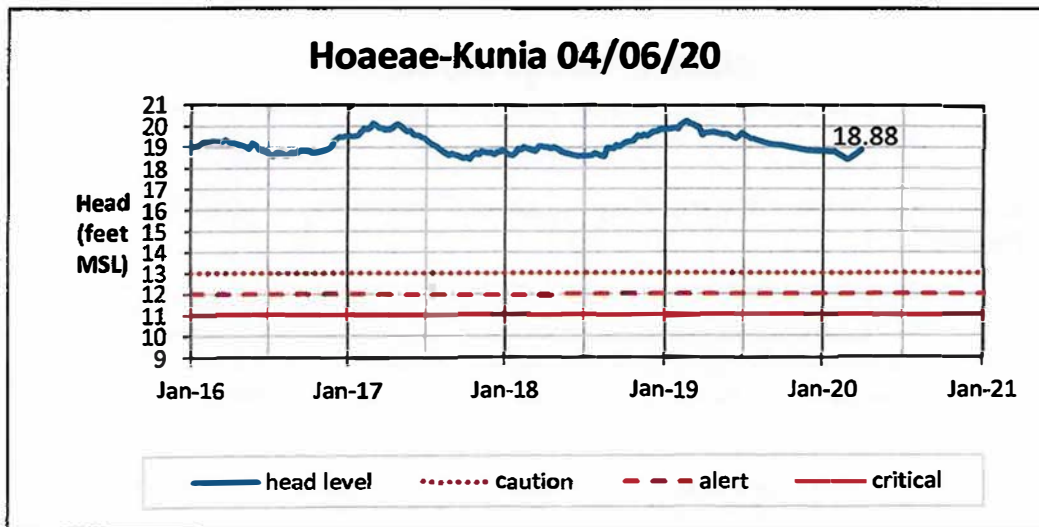
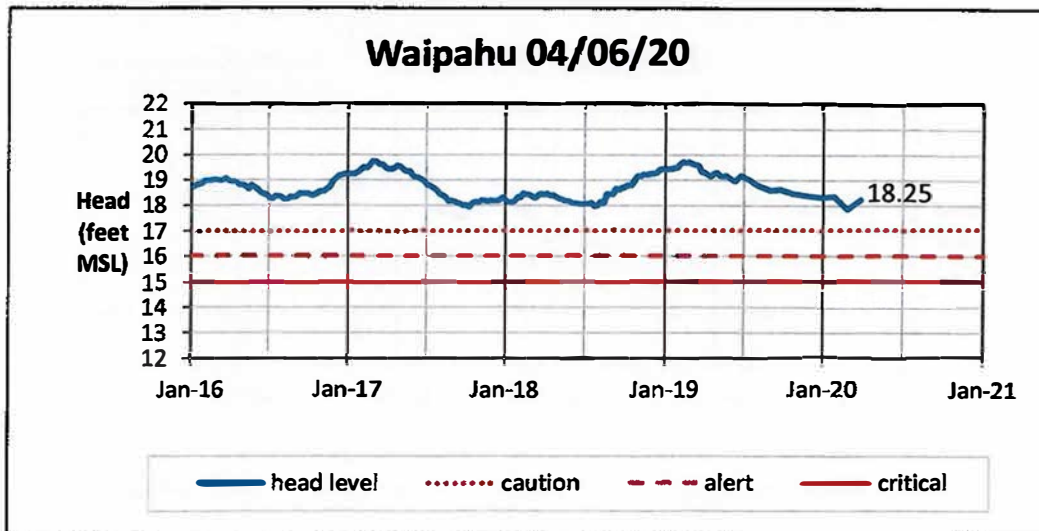
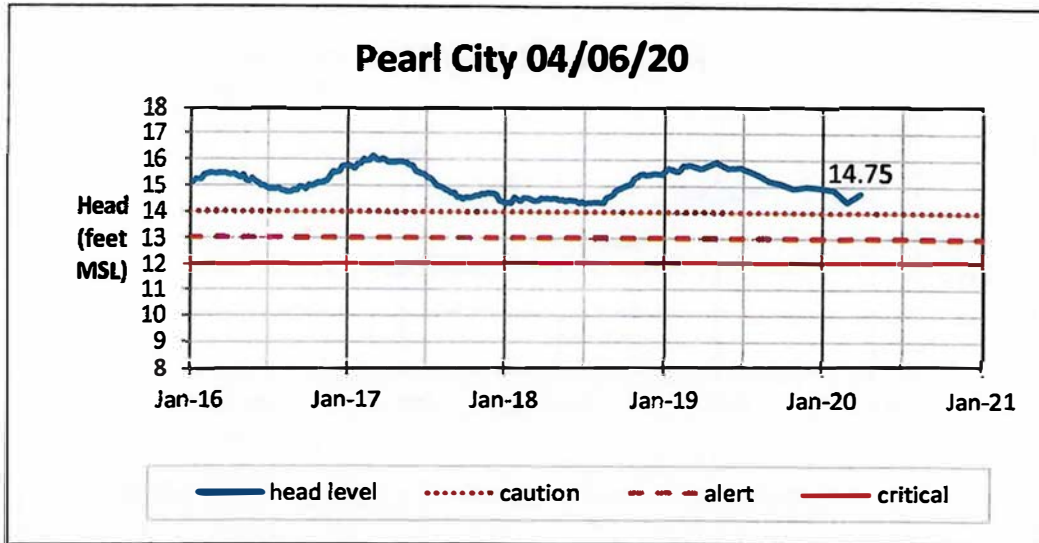


### Kalauao 04/06/20

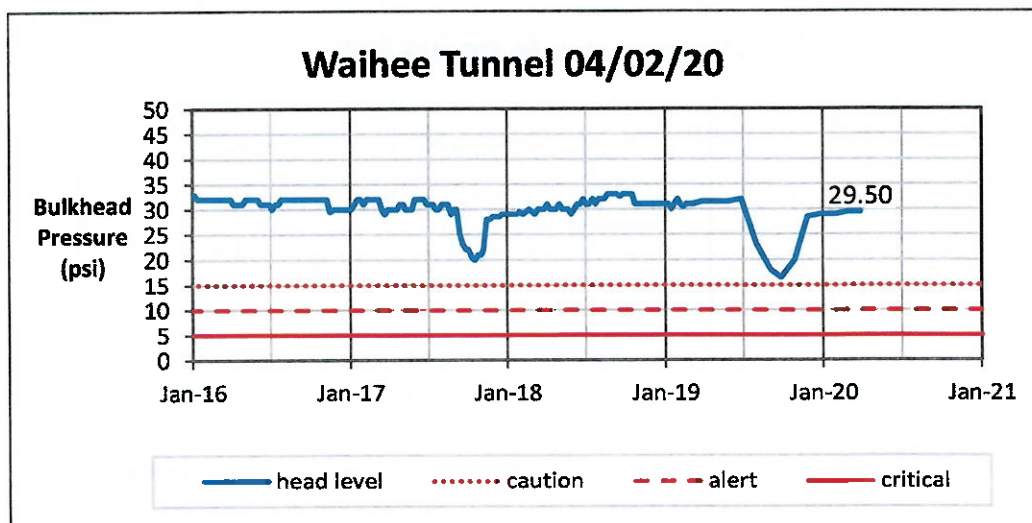
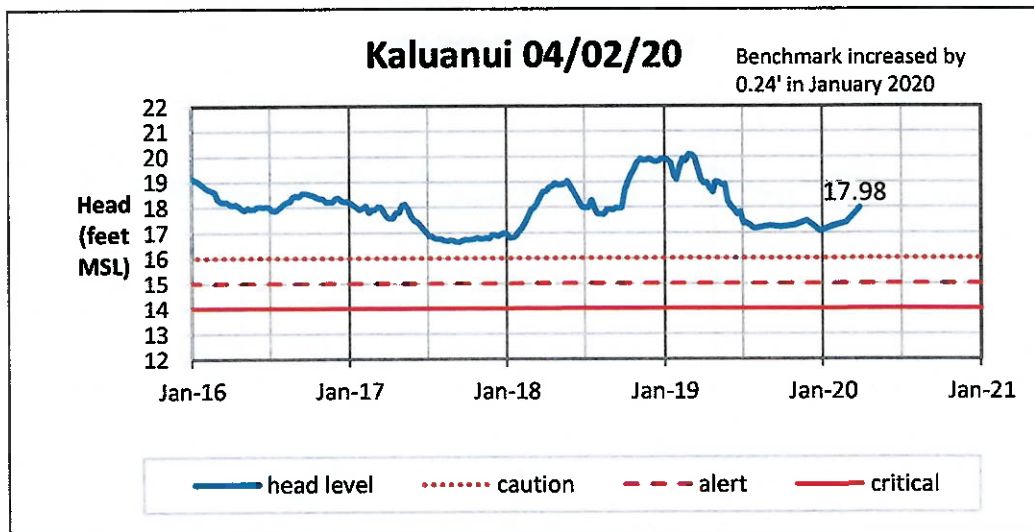
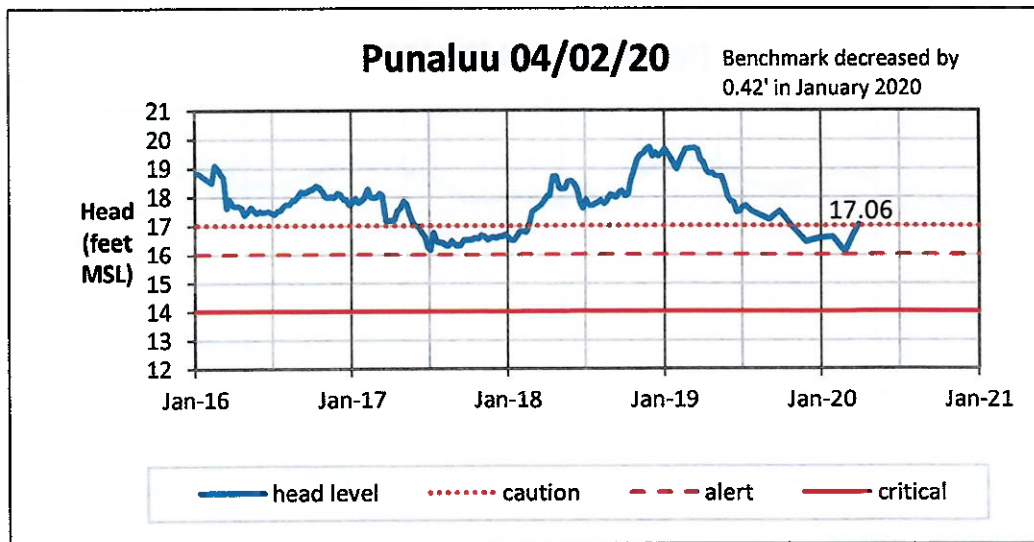




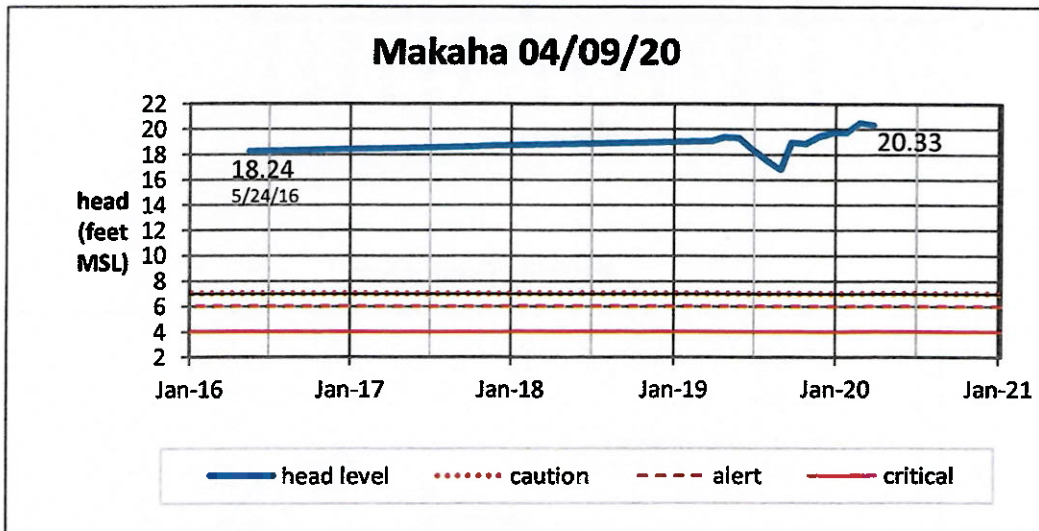
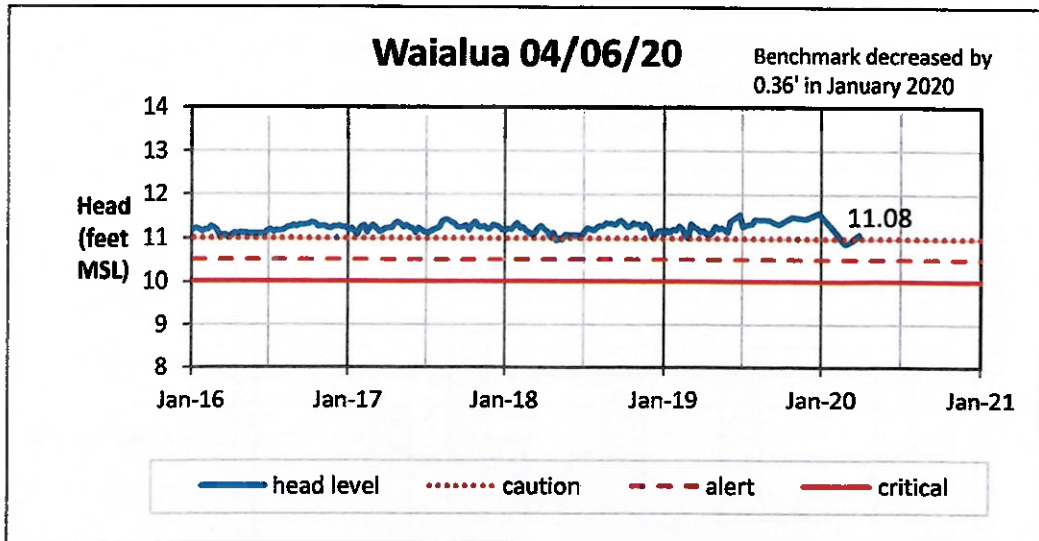
## Head Report



## Head Report

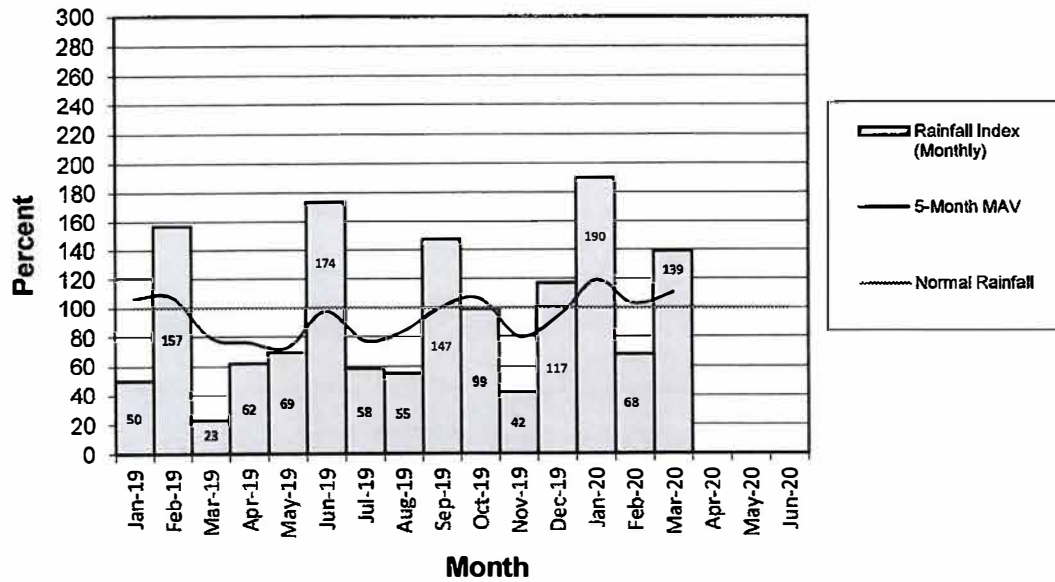


## Head Report

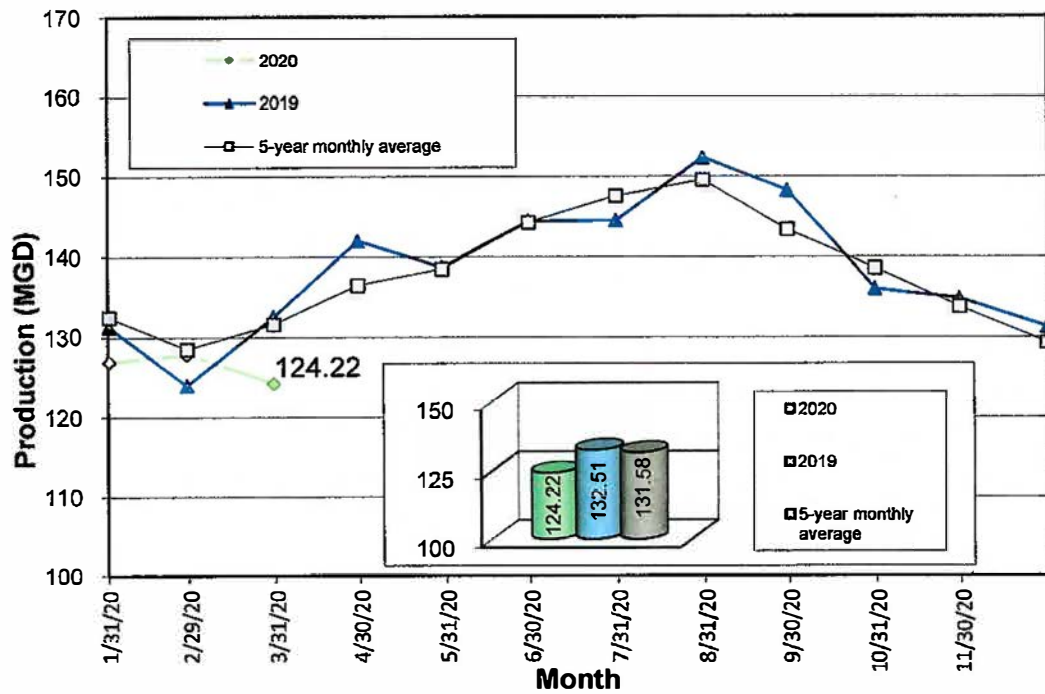




### HONOLULU WATERSHED AREA Rainfall Intake



### Monthly Production



"May 26, 2020

STATUS  
UPDATE OF  
GROUNDWATER  
LEVELS AT ALL  
INDEX STATIONS  
FOR MARCH AND  
APRIL 2020

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

There were two aquifer index wells within low groundwater status for the production month of April 2020. Punaluu and Waialua are under a Caution status. The monthly production average for April 2020 was 126.14 million gallons per day (MGD).

The Board of Water Supply rainfall index for the month of April 2020 was 35 percent of normal, with a 5-month moving average of 110 percent. As of May 5, 2020, the Hawaii Drought Monitor shows no dry conditions for the island of Oahu. The National Weather Service describes Hawaii as entering a dry season and is predicting below-normal precipitation through July 2020.

Most monitoring wells are exhibiting increasing trends, likely due to decreased pumping because of the COVID-19 pandemic. Production for April 2020 was 8 MGD lower compared to the 5-year monthly average of 134 MGD for April, a reduction of about 6 percent.

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.

Mr. Usagawa reported that potable source production for April dropped about 8 mgd or 6% due to the COVID stay home/work at home order, largely due to the reduction in tourism. Source production has steadily increased back toward the five-month moving average in the last two months.

Chair Andaya asked a clarifying question confirming source production hit 140 mgd in the last two weeks of May due to the hot weather.

Mr. Usagawa mentioned that BWS is tracking the economic recession and subscribes to the University of Hawaii Economic Research Organization (UHERO) for economic assessments. The BWS is updating the Long-Range Financial Plan through an emergency contract to evaluate source production, and metered consumption data to determine any impacts to revenues.

Manager Lau mentioned the BWS is monitoring delinquency rates.

**PRODUCTION, HEAD AND RAINFALL REPORT  
MONTH OF APRIL 2020**

**POTABLE**

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.12
WAILUPE	0.13
AINA KOA	0.11
AINA KOA II	0.79
MANOA II	0.96
PALOLO	1.16
KAIMUKI HIGH	1.75
KAIMUKI LOW	1.41
WILDER	4.71
BERETANIA HIGH	2.17
BERETANIA LOW	0.26
KALIH HIGH	3.10
KALIH LOW	2.16
KAPALAMA	0.83
KALIH SHAFT	7.90
MOANALUA	1.15
HALAWA SHAFT	8.83
KAAMILO	0.84
KALAUAO	5.35
PUNANANI	6.56
KAHUMANU	0.24
HECO WAIU	2.71
MANANA	0.25
WELLS SUBTOTAL:	53.49
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.23
GRAVITY SUBTOTAL:	0.40
HONO. SUBTOTAL:	53.89

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.35
WAIMANALO III	0.00
KUOU I	1.28
KUOU II	0.06
KUOU III	0.52
LULUKU	0.96
HAIKU	0.00
IOLEKAA	0.00
KAHALUU	0.76
KAHANA	1.01
PUNALUU I	0.00
PUNALUU II	2.69
PUNALUU III	1.08
KALUANUI	1.10
MAAKUA	0.26
HAUULA	0.27
WELLS SUBTOTAL:	10.34
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.39
WAIHEE TUNNEL	4.40
LULUKU TUNNEL	0.09
HAIKU TUNNEL	0.98
KAHALUU TUNNEL	1.14
GRAVITY SUBTOTAL:	7.18
WIND. SUBTOTAL:	17.52

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.29
OPANA	0.16
WAIALEE I	0.24
WAIALEE II	0.40
HALEIWA	0.00
WAIALUA	1.58
N.SHORE SUBTOTAL:	2.68

STATION	MGD
MILILANI (4)	
MILILANI I	3.67
MILILANI II	0.00
MILILANI III	0.63
MILILANI IV	0.00
MILILANI SUBTOTAL:	4.30

STATION	MGD
WAIHAWA (5)	
WAIHAWA	0.77
WAIHAWA II	2.11
WAIHAWA SUBTOTAL:	2.88

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.67
HALAWA 550	0.00
AIEA	1.20
AIEA GULCH 497	0.00
AIEA GULCH 550	0.22
KAONOHI I	1.07
WAIMALU I	0.00
NEWTOWN	1.29
WAIU	0.90
PEARL CITY I	0.84
PEARL CITY II	1.11
PEARL CITY III	0.27
PEARL CITY SHAFT	0.00
PEARL CITY-HALAWA SUBTOTAL:	7.57

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	1.74
WAIPIO HTS. I	0.93
WAIPIO HTS. II	0.33
WAIPIO HTS. III	1.16
WAIPAHU	3.79
WAIPAHU II	2.02
WAIPAHU III	1.51
WAIPAHU IV	2.89
KUNIA I	3.78
KUNIA II	2.18
KUNIA III	1.46
HOAEAE	5.58
HONOULIULI I	0.00
HONOULIULI II	6.64
MAKAKILO	0.28
WAIPAHU-EWA SUBTOTAL:	34.28

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.00
MAKAHA II	0.01
MAKAHA III	0.26
MAKAHA V	0.13
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.07
WAIANAE I	0.25
WAIANAE II	0.20
WAIANAE III	0.54
WELLS SUBTOTAL:	1.46
WAI. C&C TUNNEL	1.40
WAI. PLANT. TUNNELS	0.16
GRAVITY SUBTOTAL:	1.56
WAIANAE SUBTOTAL:	3.02

**NONPOTABLE**

NONPOTABLE	MGD
KALAUAO SPRINGS	0.28
BARBERS POINT WELL	1.05
GLOVER TUNNEL NP	0.34
NONPOTABLE TOTAL:	1.66

**RECYCLED WATER (MARCH 2020)**

RECYCLED WATER	MGD
HONOULIULI WRF R-1	6.64
HONOULIULI WRF RO	1.41
RECYCLED WATER TOTAL:	8.05

**PRODUCTION, HEAD AND RAINFALL REPORT  
MONTH OF APRIL 2020**

**PRODUCTION SUMMARIES**

TOTAL WATER	MGD
PUMPAGE	117.00
GRAVITY	9.14
POTABLE TOTAL:	126.14
NONPOTABLE	1.66
RECYCLED WATER	8.05
TOTAL WATER:	135.85

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS				
POTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE/ BWS YLDS	APR 2020	DIFF. A-B
1	HONOLULU	82.93	53.49	29.44
2	WINDWARD	25.02	12.73	12.29
3	NORTH SHORE	4.70	2.68	2.01
4	MILILANI	7.53	4.30	3.23
5	WAHIAWA	4.27	2.88	1.39
6	PEARL CITY-HALAWA	12.25	7.57	4.68
7	WAIPAHU-EWA	50.63	34.28	16.35
8	WAIANAE	4.34	1.46	2.88
TOTAL:		191.67	119.40	72.27

CWRM PERMITTED USE FOR BWS				
NONPOTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE	APR 2020	DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.05	-0.05
TOTAL:		1.00	1.05	-0.05

**EFFECTIVE WATER DEMAND PER DISTRICT**

IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	1.73
7	8	BARBERS PT LB	6.04

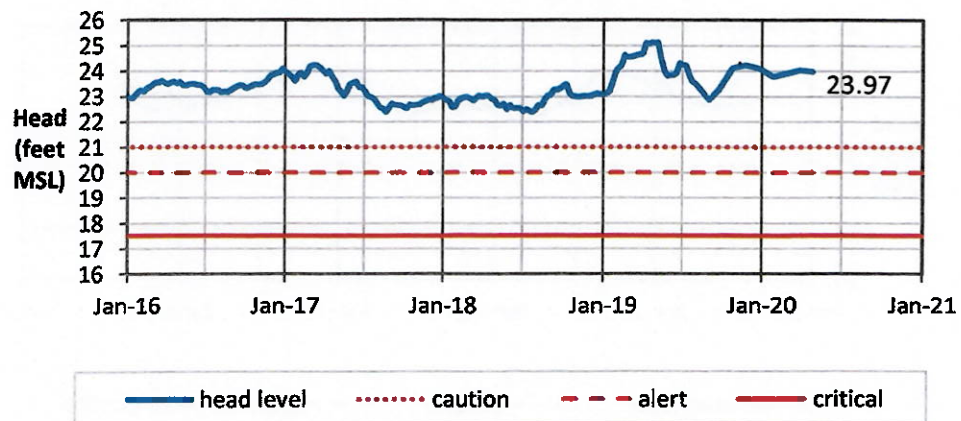
WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	53.49	1.73	-	55.22
2	WINDWARD	12.73	-	1.73	11.00
3	NORTH SHORE	2.68	-	-	2.68
4	MILILANI	4.30	-	-	4.30
5	WAHIAWA	2.88	-	-	2.88
6	PEARL CITY-HALAWA	7.57	-	-	7.57
7	WAIPAHU-EWA	34.28	-	6.04	28.23
8	WAIANAE	1.46	6.04	-	7.51
TOTAL:		119.40	7.77	7.77	119.40

# Head Report

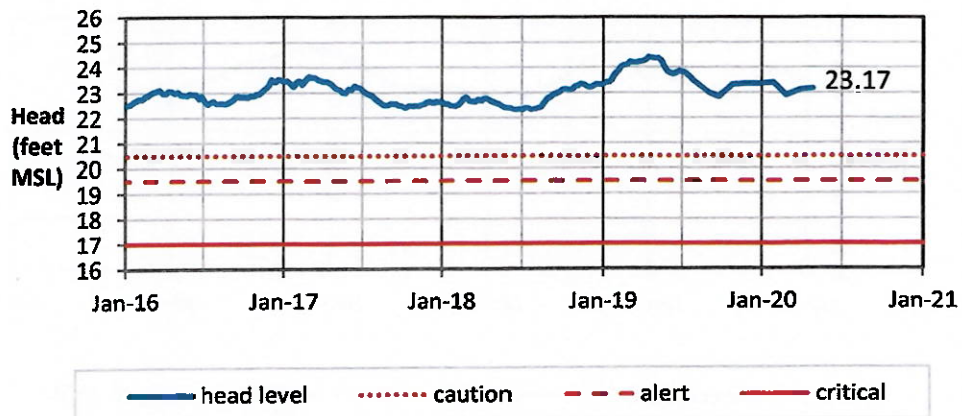
## Kaimuki 05/11/20



## Beretania 05/11/20



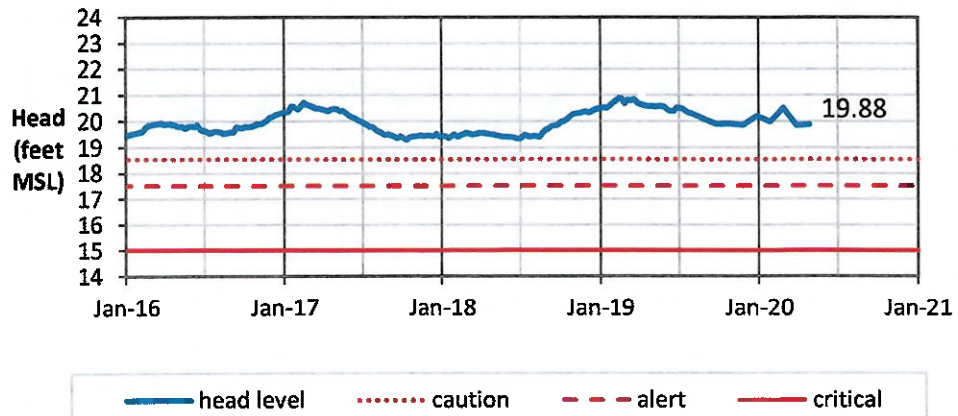
## Kalihi 04/29/20



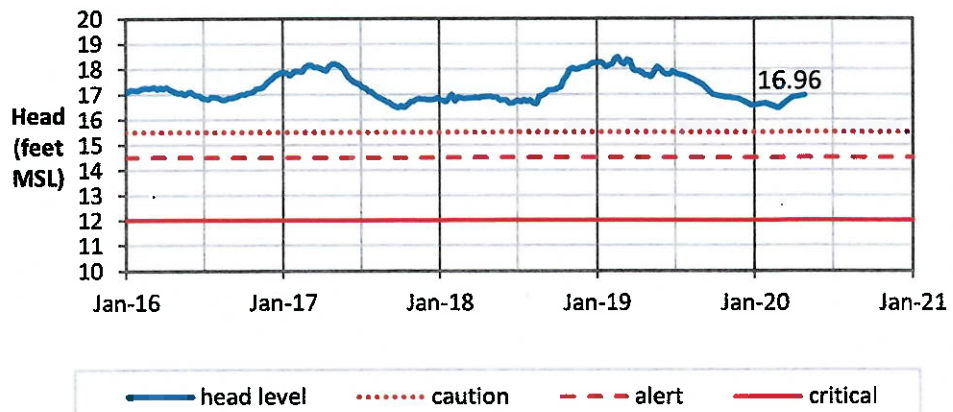


## Head Report

### Moanalua 04/29/20



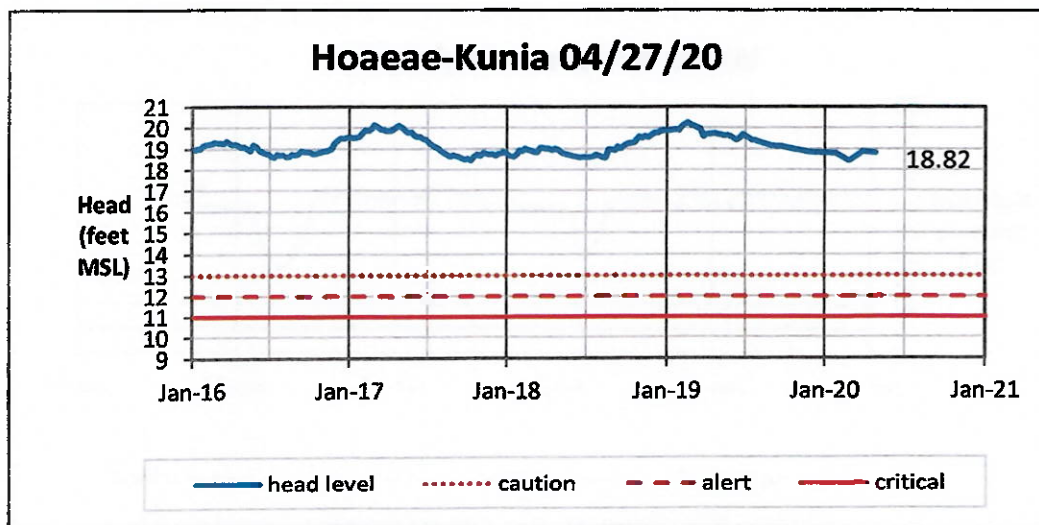
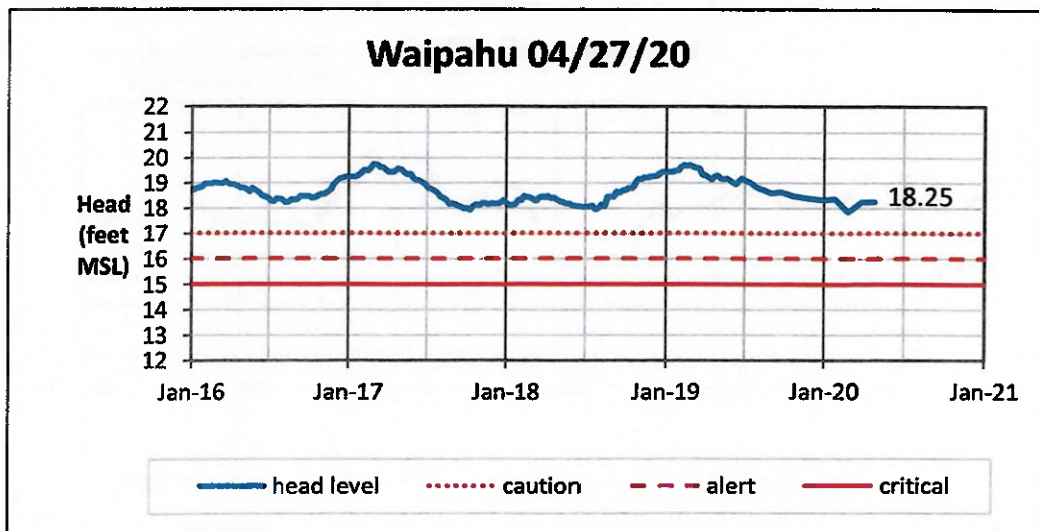
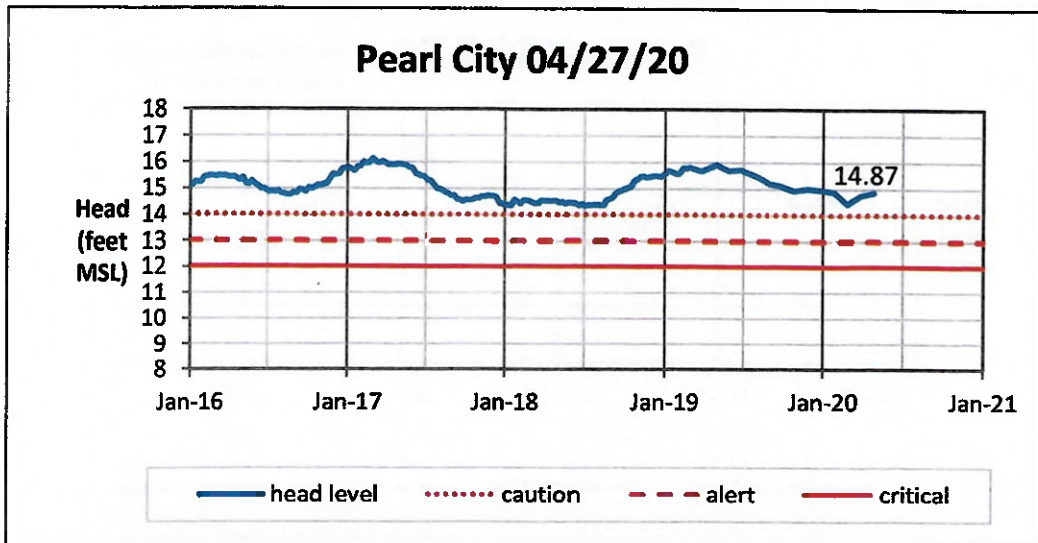
### Halawa 04/29/20



### Kalauao 04/27/20

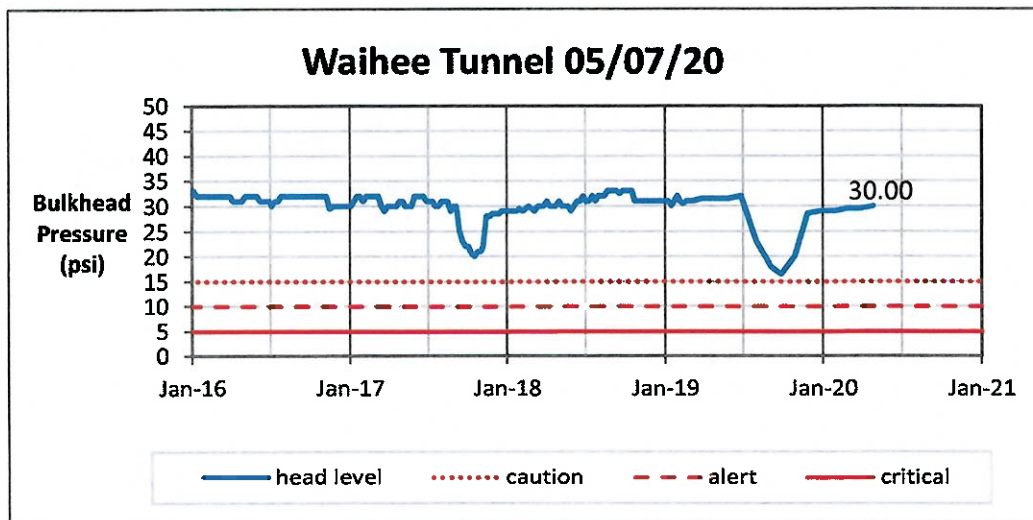
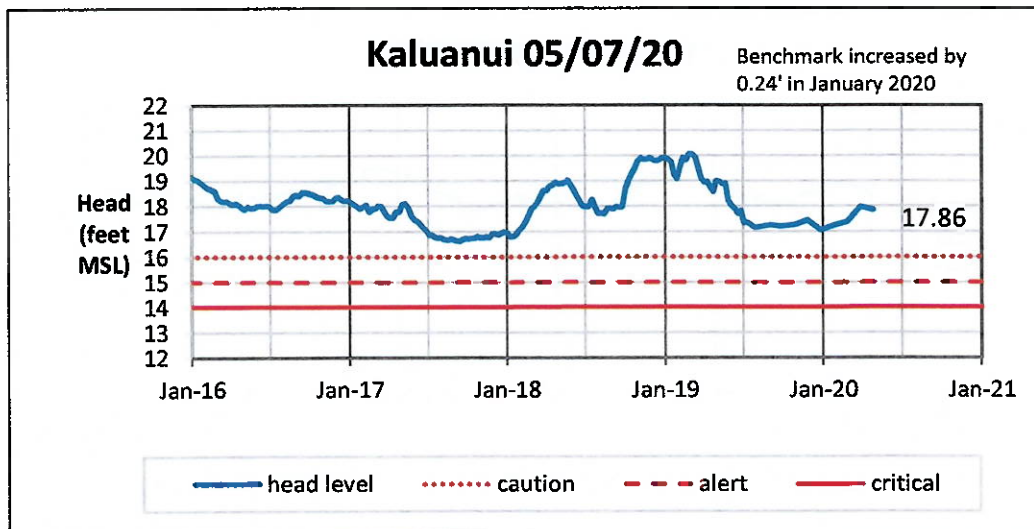
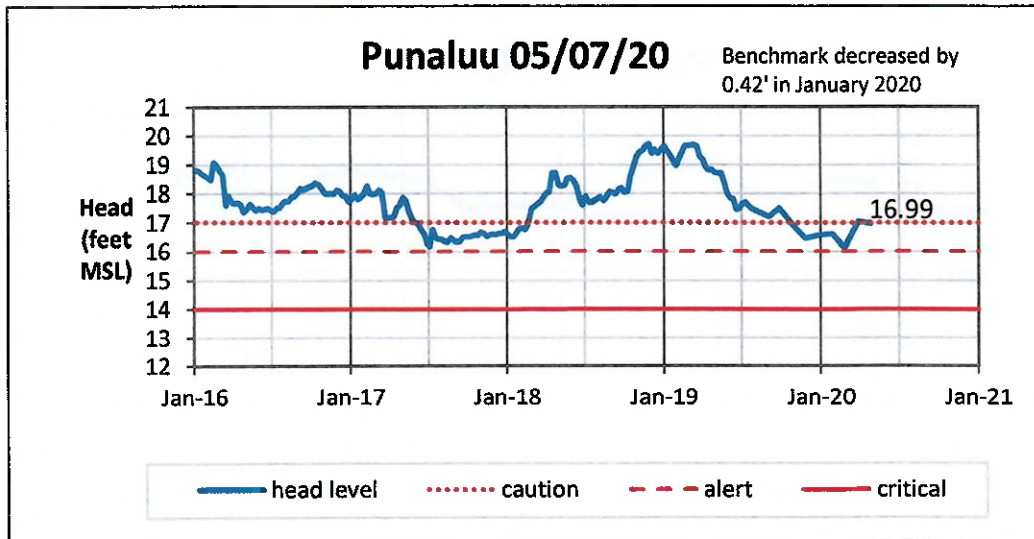


## Head Report

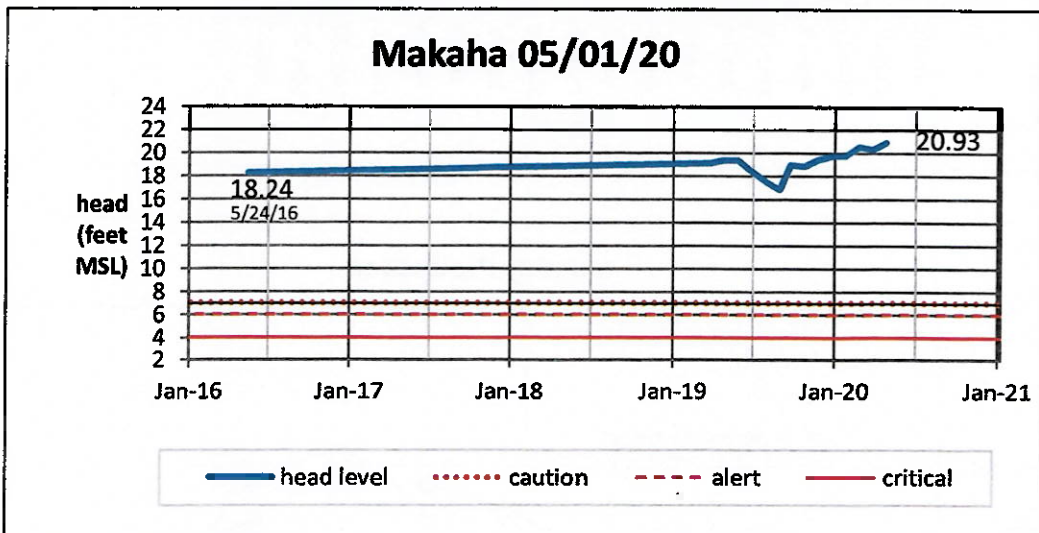
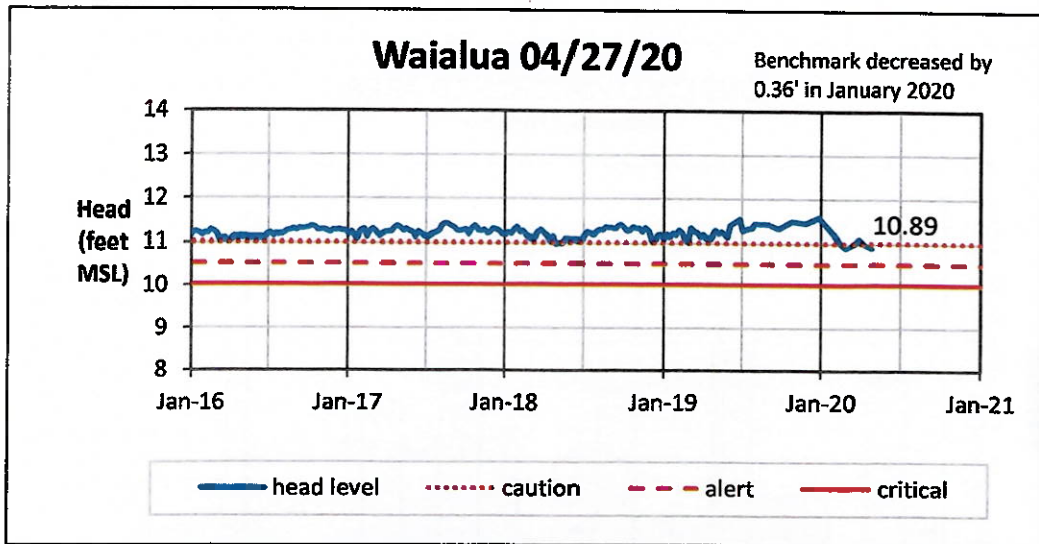




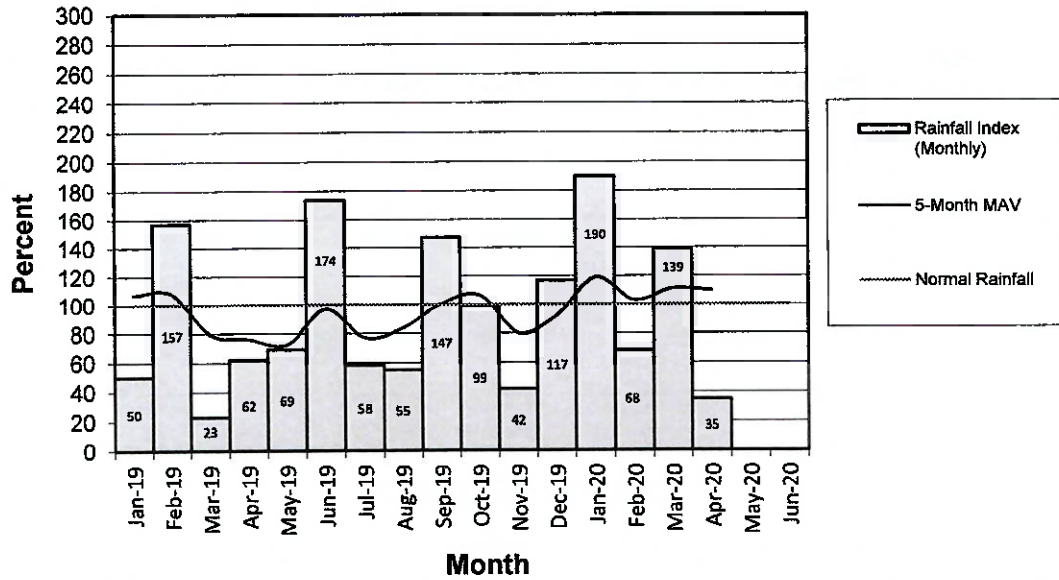
## Head Report



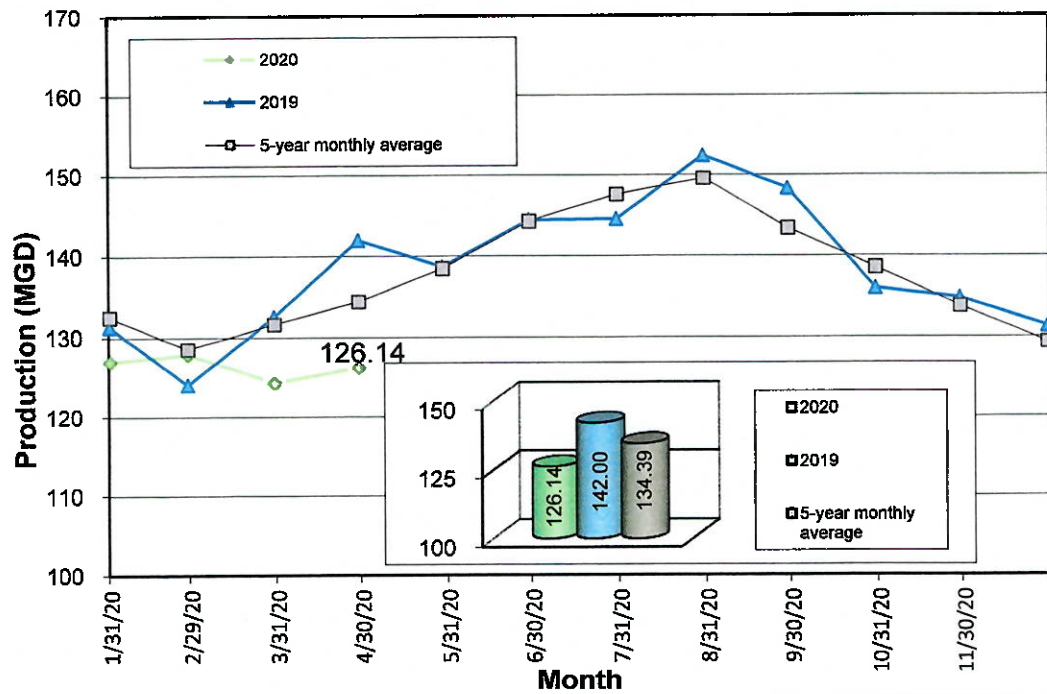
# Head Report



### HONOLULU WATERSHED AREA Rainfall Intake



### Monthly Production



ITEM FOR INFORMATION NO. 4

"May 26, 2020

WATER MAIN  
REPAIR  
REPORT FOR  
MARCH AND  
APRIL 2020

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

Chair and Members:

Subject: Water Main Repair Report for March 2020

Michael Fuke, Program Administrator, Field Operations Division, will report on water main repair work for the month of March 2020.

Respectfully submitted,

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

Attachment"

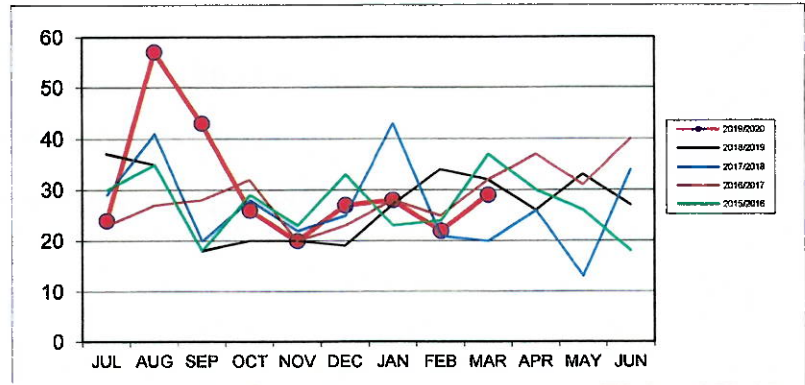
The foregoing was for information only.

DISCUSSION: Michael Fuke, Program Administrator, Field Operations Division, gave the report. No comments or discussion.

## WATER MAIN REPAIR REPORT for March 2020

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2019/2020	24	57	43	26	20	27	28	22	29				276
2018/2019	37	35	18	20	20	19	27	34	32	26	33	27	328
2017/2018	29	41	20	28	22	25	43	21	20	26	13	34	322
2016/2017	23	27	28	32	20	23	28	25	32	37	31	40	346
2015/2016	30	35	18	29	23	33	23	24	37	30	26	18	326

Date	Address	Size (In)	Pipe Type
3/2/2020	73 Kailuana Pl, Kailua	8	CI
3/2/2020	45 Kailuana Pl, Kailua	8	CI
3/3/2020	2382 Waiomao Rd, Honolulu	8	CI
3/4/2020	1026 Geiger Rd, Ewa Beach	12	PVC (R1)
3/4/2020	2048 Kapiolani Blvd, Honolulu	6	CI
3/4/2020	4151 Nuuanu Pali Dr, Honolulu	4	AC
3/6/2020	84-937 Hana St, Waianae	8	DI
3/7/2020	67-232 Kahaone Loop, Waialua	8	CI
3/8/2020	2547 Henry St, Honolulu	8	CI
3/9/2020	1082 Sand Island Parkway	12	PVC
3/9/2020	2547 Henry St, Honolulu	8	CI
3/9/2020	4801 Kahala Ave, Honolulu	8	CI
3/10/2020	94-1219 Awala St, Waipahu	8	CI
3/10/2020	2394 Kuhio Ave, Honolulu	8	CI
3/11/2020	1848 9th Ave, Honolulu	8	CI
3/11/2020	41-1520 Lukanela St, Waimanalo	6	CI
3/15/2020	734 Mokulua Dr, Kailua	8	PVC
3/16/2020	655 Ilalo St, Honolulu	12	CI
3/18/2020	513 Iliaina St, Kailua	8	AC
3/19/2020	67-395 Haona St, Waialua	8	CI
3/21/2020	1234 Elm St, Honolulu	12	CI
3/22/2020	310 Ainahou St, Honolulu	8	DI
3/22/2020	1739 Makuahine St, Honolulu	8	CI
3/23/2020	928 18th Ave, Honolulu	4	GALV
3/24/2020	84-282 Makau St, Waianae	8	PVC
3/25/2020	1002 Aulua Rd, Kailua	12	CI
3/26/2020	413 Kawailoa Rd, Kailua	12	CI
3/27/2020	2301 Waiomao Rd, Honolulu	6	CI
3/29/2020	87-158 Liopolo St, Waianae	8	DI



23 miles of pipeline were surveyed by the Leak Detection Team in the month of March.

"May 26, 2020

WATER MAIN  
REPAIR  
REPORT FOR  
MARCH AND  
APRIL 2020

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 2020

Michael Fuke, Program Administrator, Field Operations Division, will report on water main repair work for the month of April 2020.

Respectfully submitted,

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

Attachment"

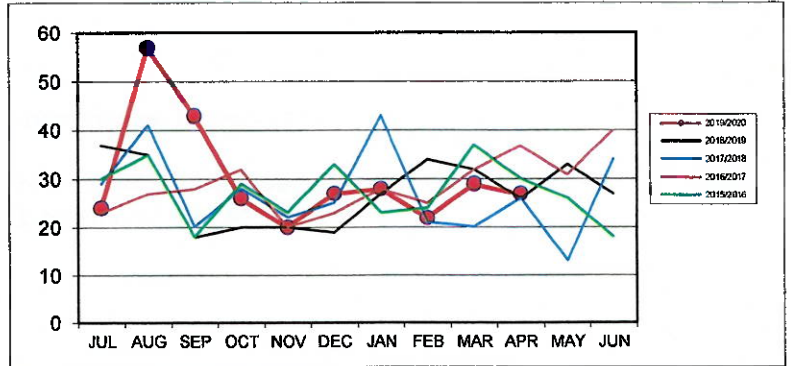
The foregoing was for information only.

DISCUSSION: Michael Fuke, Program Administrator, Field Operations Division, gave the report. No comments or discussion.

## WATER MAIN REPAIR REPORT for April 2020

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2019/2020	24	57	43	26	20	27	28	22	29	27			303
2018/2019	37	35	18	20	20	19	27	34	32	26	33	27	328
2017/2018	29	41	20	28	22	25	43	21	20	26	13	34	322
2016/2017	23	27	28	32	20	23	28	25	32	37	31	40	346
2015/2016	30	35	18	29	23	33	23	24	37	30	26	18	326

Date	Address	Size (In)	Pipe Type
4/6/2020	66-960 Kuewa Dr, Waialua	6	CI
4/6/2020	Kalaniana'ole Hwy, Honolulu	36	CC
4/8/2020	4910 Kahala Ave, Honolulu	24	CI
4/9/2020	94-89 Awamoku St, Waipahu	6	PVC
4/9/2020	2848 Date St, Honolulu	12	CI
4/10/2020	98-665 D Kaonohi St, Aiea	12	CI
4/15/2020	620 Dillingham Blvd, Honolulu	8	CI
4/16/2020	427 Keaniani St, Kailua	6	CI
4/16/2020	45-1135 Haleloke Pl, Kaneohe	6	CI
4/17/2020	955 17th Ave, Honolulu	8	PVC
4/17/2020	51-178 Kamehameha Hwy, Kaaawa	6	CI
4/20/2020	98-1758 Halakea St, Aiea	8	CI
4/20/2020	59-510 Pupukea Rd, Haleiwa	12	CI
4/21/2020	1863 Ala Wai Blvd, Honolulu	16	DI
4/22/2020	225 S Kalaehe Ave, Kailua	8	PVC
4/22/2020	86-253 Kawili St, Waianae	8	PVC
4/22/2020	1450 Hooli Circle, Pearl City	8	CI
4/22/2020	2296 Waiomao Rd, Honolulu	8	CI
4/23/2020	55 Dowsett Ave, Honolulu	8	PVC
4/23/2020	94-301D Farrington Hwy, Waipahu	6	CI
4/24/2020	99-762 Hulumanu St, Aiea	8	CI
4/25/2020	2394 Kuhio Ave, Honolulu	8	CI
4/28/2020	1010 Ward Ave, Honolulu	8	CI
4/28/2020	2242 Kalihi St, Honolulu	6	CI
4/29/2020	47 194 Kamehameha Hwy, Kaneohe	6	CI
4/30/2020	2433 Ahaiki St, Pearl City	6	CI
4/30/2020	3634 Waaloa Pl, Honolulu	8	CI



14 miles of pipeline were surveyed by the Leak Detection Team in the month of April.

MOTION TO  
RECESS INTO  
EXECUTIVE  
SESSION

There being no further business Chair Andaya at 3:31 pm called for a motion to adjourn the Open Session. Ray Soon so moved; seconded by Max Sword and unanimously carried.


OPEN  
SESSION

The Board reconvened in Open Session at 3:45 pm.

MOTION TO  
ADJOURN

There being no further business Chair Andaya at 3:46 pm called for a motion to adjourn the Open Session. Max Sword so moved, seconded by Ross Sasamura and unanimously carried.


The minutes of the Regular Meeting held on May 26, 2020 are respectfully submitted,

  
DEANNA THYSSEN

THE MINUTES OF THE REGULAR SESSION BOARD  
MEETING ON MAY 26, 2020 WERE APPROVED AT  
THE JUNE 22, 2020 BOARD MEETING

	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
KAY C. MATSUI	X		
RAY C. SOON	X		
MAX J. SWORD			ABSENT
ROSS S. SASAMURA	X		
JADE T. BUTAY	X		

APPROVED:

  
BRYAN P. ANDAYA  
Chair of the Board

JUN 22 2020

Date