

# **BOARD OF WATER SUPPLY**

City and County of Honolulu  
Honolulu, Hawaii



## **2023 BUDGET**

For the Fiscal Year Beginning July 1, 2022 and  
Ending June 30, 2023



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

**OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET  
For the Fiscal Year Beginning July 1, 2022 and Ending June 30, 2023**

**BOARD MEMBERS**

Bryan P. Andaya, Chair

Kapua Sproat, Vice-Chair

Ray C. Soon, Member

Max J. Sword, Member

Na'alehu Anthony, Member

Jade T. Butay, Ex-Officio

Dawn B. Szewczyk. P.E., Ex-Officio

SUBMITTED BY:



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

APPROVED:



BRYAN P. ANDAYA, Chair

May 23, 2022

May 23, 2022

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, 2022 to June 30, 2023 (FY 2023).

## **FINANCIAL PLAN**

The proposed Operating Budget for FY 2023 is based on total operating fund resources of \$302 million, to be derived from operating revenues of \$258.6 million and an estimated carryover balance from FY 2021 of \$43.4 million. The carryover balance results from the estimated operating fund balance that is unappropriated.

The proposed operating fund expenditure allocations are \$237.2 million for operating expenses and \$58.9 million for the Capital Improvement Program (CIP) budget. A projected ending balance of \$5.9 million will be unappropriated.

The proposed CIP budget totals \$181.1 million and is funded by \$58.9 million from the Operating Fund<sup>1</sup>; \$66.1 million from the Improvement Fund<sup>2</sup>, \$27.2 million from the Special Expendable Fund<sup>3</sup> and \$28.9 million from the Extramural Fund<sup>4</sup>. Of the \$58.9 million in Operating Funds proposed for the CIP, \$500 thousand is eligible for participation in the State of Hawaii Department of Health State Revolving Fund (SRF) loan program.

<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 capacity expansion projects.

<sup>4</sup> "Extramural Fund" is a restricted fund, established by Resolution No. 778, 2007, in which funds received from any governmental agency or private entity, pursuant to negotiated agreements, contracts and/or grants, are deposited and separately accounted for.

**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 2023, we are projecting total revenues of \$258.6 million, which is \$9.7 million or 3.9 percent more than total revenues budgeted for FY 2022.

Revenue Sources	FY 2021 Actual	FY 2022 Budget	FY 2023 Budget	Percent Change FY 2023 over FY 2022
Metered Sales				
Potable and Non-Potable* Water	228,645,473	233,300,000	243,000,000	4.2%
Recycled Water	6,179,268	6,408,000	6,200,000	-3.2%
Other Revenues	9,352,815	9,140,000	9,360,000	2.4%
<b>Total Revenues</b>	<b>244,177,556</b>	<b>248,848,000</b>	<b>258,560,000</b>	<b>3.9%</b>

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

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

Potable and non-potable water sales are projected to increase by \$9.7 million or 4.2 percent more than the FY 2022 budget amount of \$233.3 million. This increase is primarily due to a rate adjustment scheduled in FY 2023 and the current year (FY 2022) usage and revenue trend.

### **Metered Sales – Recycled Water**

Recycled water sales of \$6.2 million are projected to decrease slightly by 200 thousand or 3.2 percent when compared to the FY 2022 budget. This decrease projected is based on the current year (FY 2022) usage and revenue trend.

### **Other Revenues**

Other Revenues of \$9.4 million will be \$220 thousand higher than the FY 2022 budget amount due to an anticipated increase in interest income of \$300 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 2023 are budgeted at \$296 million. This represents an increase of \$14.9 million, or 5.3 percent more than the amount budgeted for the current fiscal year. This change is attributable to an increase in funding for materials, supplies, and services of \$10.9 million; an increase in funding the department's fixed charges of \$5.8 million; an increase in debt service of \$4.9 million, offset by a decrease in operating funding (cash) for projects in the Capital Improvement Program budget by \$7.1 million.

Highlights of the proposed Operating Budget for FY 2023 are presented following the next table.

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

Equipment	4,269,015	4,601,200	5,087,100	485,900	10.6%
Debt Service	25,663,549	29,588,000	34,510,900	4,922,900	16.6%
Fixed Charges	51,743,884	53,651,008	59,484,500	5,833,492	10.9%
Total Operating Expenditures	<u>181,082,322</u>	<u>215,140,447</u>	<u>237,240,444</u>	<u>22,099,997</u>	<u>10.3%</u>
Transfer to the CIP Program	66,021,658	66,026,000	58,851,325	(7,174,675)	-10.9%
Total Expenditures	<u><u>247,103,980</u></u>	<u><u>281,166,447</u></u>	<u><u>296,091,769</u></u>	<u><u>14,925,322</u></u>	<u><u>5.3%</u></u>

### **Personnel Services**

The proposed personnel services budget of \$51.4 million is \$40 thousand or 0.1 percent less than personnel services budgeted for the current year. The proposed operating budget does not include the creation any new positions, nor does it abolish any existing positions. The departmental staffing level remains under the total of 741 authorized positions.

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

The proposed MS&S budget of \$86.7 million is \$10.9 million or 14.4 percent more than the expenditures budgeted for the current year. This is primarily due to a \$4.3 million increase in funding in the Information Technology Division to implement a much-needed upgrade to our Customer Account System (CC&B), and an increase of \$2.1 million in the Water Quality Division to address impacts from the Red Hill Bulk Fuel Storage Facility Crisis.

The increase over the current year, without considering these irregular expenditures, is \$4.5 million and would represent a 2.1 percent increase over the current year. These increases are primarily due to:

- Increases in Contractual Services of \$2.2 million in Field Operations to address maintenance on our regulated dams and in Information Technology and Executive Support to improve and maintain both our physical and cyber security; and
- Increases in Professional Services of \$1.5 million to support Water Resources and Capital Projects as they implement the Water Master Plan with an increasing Capital Improvement Program; and
- Increases in Treatment expenses, reflected in Other Materials & Supplies and Non-Potable Water Treatment Plant Costs, of \$995 thousand.

### **Equipment**

The proposed equipment budget of \$5.1 million is \$486 thousand or 10.6 percent more than the amount budgeted in FY 2022. This is primarily due to the funding of \$1 million for two new mobile generators to increase system resiliency in the event of commercial power outages. While these generators will be purchased with Operating Funds, the Hawaii Emergency Management Agency (HI-EMA) facilitated the award of Hazard Mitigation Grant Program funding for the Board of Water Supply. We expect to recover 75% of our costs for these two new mobile generators from the Federal Emergency Management Agency, per our grant agreement with them.



### **Debt Service**

The total debt service requirement for FY 2023 is \$34.5 million, which is \$4.9 million or 16.6 percent more than the amount budgeted in FY 2022. Reflective of our growing Capital Improvement Program and increasing financing costs, in FY 2023, payments to the State of Hawaii/Department of Health State Revolving Fund (SRF) loan program are scheduled to increase by \$503 thousand and principal and interest payments on the department's bonds payable is increasing by \$4.4 million.

### **Fixed Charges**

The proposed fixed charges budget of \$59.5 million is \$5.8 million or 10.9 percent more than the amount budgeted for FY 2022. This increase is primarily due to increased electricity costs of \$4.1 million to power the department's pumping stations, reservoirs, and facilities; and \$1.7 million increase in employee benefits (Employee Retirement System – ERS, Health Benefits and Other Post-Employment Benefits – OPEB).

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

A CIP budget of \$181.1 million is proposed for FY 2023 to be funded as follows: Operating Fund<sup>1</sup> -- \$58.9 million; Improvement Fund<sup>2</sup> -- \$66.1 million; Special Expendable Fund<sup>3</sup> -- \$27.2 million; and Extramural Fund<sup>4</sup> -- \$28.9 million. Of the \$58.9 million in CIP projects that will be funded through the Operating Fund<sup>1</sup>; \$500 thousand is eligible for participation in the State Department of Health's State Revolving Fund (SRF) loan program.

Highlights of the proposed CIP for next year includes \$20 million for research and development; \$98 million for the renewal and replacement of various BWS pipelines, facilities, and pumping stations; and \$23.9 million for capacity expansion. The CIP cost categories and project descriptions are summarized starting on page CIP-SUMM.

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

### **Red Hill Bulk Fuel Storage Facility Crisis and BWS Capital Program**

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

The BWS continues to monitor the situation very closely and this Fiscal Year 2023 budget reflects our response efforts. We have programmed several projects aimed at increasing the water supply, protecting our existing water resources, and increasing connectivity within our existing water systems. This includes projects in Research and Development for the planning, designing, and constructing of three new exploratory wells to find alternative water sources and three additional sentinel monitoring wells in Halawa Valley to identify the extent of the contaminant plume; and the testing of existing non-production wells to assess their renewed use as potable water sources. Within Renewal and Replacement, Facilities, we have programmed planning and designing interconnectivity within our water systems. Within Capacity Expansion, Pumps, we have programmed three additional new source projects.

### **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.

Chair and Members  
Board of Water Supply  
May 23, 2022  
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The Special Expendable fund balance on June 30, 2021 was \$57,708,998. The Special Expendable fund is being used to fund \$20.6 million of CIP expansion projects in FY 2022 and \$27.2 million of CIP expansion projects in FY 2023.

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 1,401 dwelling units. This equates to \$1,978,845.26 in fees and charges waived. The long-term effect of this loss of fees could result in the Operating Fund absorbing the cost of expansion projects in the future.

Respectfully submitted,

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

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

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# **SUMMARY OF ALL FUNDS**

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**OPERATING BUDGET**

**CAPITAL IMPROVEMENT  
PROGRAM BUDGET**

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**Board of Water Supply  
Summary of All Funds  
Fiscal Year 2023**

	Operating Fund	Operating Fund - SRF Eligible	Special Expendable Fund	Improvement Fund	Extramural Fund	TOTAL - All Funds
Operating Budget	237,240,444	-	-	-	-	237,240,444
Capital Improvement Program	58,351,325	500,000	27,250,000	66,123,000	28,885,000	181,109,325
Total - All Funds	295,591,769	500,000	27,250,000	66,123,000	28,885,000	418,349,769

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**BOARD OF WATER SUPPLY  
OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET  
FISCAL YEAR 2023  
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**II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET**

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**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**Department Summary**

<b>Resources and Expenditures</b>	<b>FY2021 Actual</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>
Beginning Balance	47,053,542	39,772,388	43,468,351
Revenues	244,177,556	248,848,000	258,560,000
Lapses/Adjustments	8,608,611	0	0
<b>Total Resources</b>	<b>299,839,709</b>	<b>288,620,388</b>	<b>302,028,351</b>
Operating Expenditures	181,082,323	215,140,447	237,240,444
Capital Program	66,021,658	66,026,000	58,851,325
Transfer to Special Expendable Fund			
<b>Total Expenditures</b>	<b>247,103,981</b>	<b>281,166,447</b>	<b>296,091,769</b>
<b>Ending Balance</b>	<b>52,735,728</b>	<b>7,453,941</b>	<b>5,936,582</b>

**Board of Water Supply  
Operating Budget Revenues  
Fiscal Year 2023**

**Department Summary**

<b>Revenues</b>	<b>FY2021 Actual</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>
Metered Revenue - Potable Water	228,645,473	233,300,000	243,000,000
Metered Revenue - Recycled Water (R-1)	3,511,358	3,484,000	3,500,000
Metered Revenue - Recycled Water (RO)	2,667,910	2,924,000	2,700,000
Private Fire Protection	640,278	650,000	650,000
Ocean Cooling Revenues	1,500,705	1,500,000	1,500,000
Other Water Revenues	243,480	320,000	280,000
Revenues from Water Service Installations	490,398	550,000	500,000
Revenues from Merchandising & Jobbing (M&J)	289,370	280,000	300,000
Interest Income - Operating	5,836,894	5,500,000	5,800,000
Miscellaneous Non-Operating Revenue	140,504	140,000	140,000
Non-Operating Rental Income	211,186	200,000	190,000
<b>Total</b>	<b>244,177,556</b>	<b>248,848,000</b>	<b>258,560,000</b>

**Board of Water Supply  
Operating Budget Expenditures  
Fiscal Year 2023**

**Department Summary**

<b>Expenditure Classification</b>	<b>FY2021 Actual</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>
Personnel Services	44,001,120	51,485,567	51,445,200
Materials, Supplies and Services	55,404,754	75,814,672	86,712,744
Equipment	4,269,015	4,601,200	5,087,100
Departmental Fixed Charges	51,743,884	53,651,008	59,484,500
Debt Service	25,663,549	29,588,000	34,510,900
<b>Operating Expenditures</b>	<b>181,082,323</b>	<b>215,140,447</b>	<b>237,240,444</b>
Transfer to Capital Improvement Program	66,021,658	66,026,000	58,851,325
	0	0	0
<b>Total Expenditures</b>	<b>247,103,981</b>	<b>281,166,447</b>	<b>296,091,769</b>

**Board of Water Supply  
Operating Budget Expenditures  
Fiscal Year 2023**

**Department Summary by Division/Office**

<b>Expenditure Classification (Personnel Services, Materials, Supplies and Services, and Equipment)</b>	<b>FY2021 Actual</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>
Manager's Office	806,426	922,450	1,008,850
Executive Support Office	6,799,043	9,054,865	9,913,447
Communications Office	1,319,673	1,375,439	1,457,866
Human Resources Office	590,376	715,000	845,900
Water Quality	9,422,654	13,320,610	15,642,285
Customer Care	4,639,596	5,483,410	5,263,140
Land	354,056	1,032,990	485,700
Water Resources	10,340,117	14,158,982	14,415,075
Field Operations	28,130,906	36,511,525	37,381,490
Capital Projects	7,747,497	8,362,200	9,196,800
Water System Operations	15,188,973	19,175,600	19,818,275
Information Technology	13,726,164	15,829,068	21,914,066
Finance	4,609,409	5,959,300	5,902,150
<b>Total of Divisions and Offices</b>	<b>103,674,889</b>	<b>131,901,439</b>	<b>143,245,044</b>
Departmental Fixed Charges	51,743,884	53,651,008	59,484,500
Debt Service	25,663,549	29,588,000	34,510,900
<b>Total Operating Expenditures</b>	<b>181,082,323</b>	<b>215,140,447</b>	<b>237,240,444</b>

**Board of Water Supply  
Expenses by Account Type  
Fiscal Year 2023**

**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>FY2023 Proposed Budget</b>
Manager's Office	622,800	386,050	0	0	1,008,850
Executive Support Office	1,367,700	8,545,747	0	0	9,913,447
Communications Office	862,186	595,680	0	0	1,457,866
Human Resources Office	632,500	213,400	0	0	845,900
Water Quality	2,119,900	13,498,385	24,000	0	15,642,285
Customer Care	4,174,800	1,077,340	11,000	0	5,263,140
Land	338,600	147,100	0	0	485,700
Water Resources	2,724,534	11,640,541	50,000	0	14,415,075
Field Operations	18,175,500	19,166,490	39,500	0	37,381,490
Capital Projects	6,357,800	2,589,000	250,000	0	9,196,800
Water System Operations	7,347,100	8,613,575	3,857,600	0	19,818,275
Information Technology	4,251,280	16,872,786	790,000	0	21,914,066
Finance	2,470,500	3,366,650	65,000	0	5,902,150
<b>Total:</b>	<b>51,445,200</b>	<b>86,712,744</b>	<b>5,087,100</b>	<b>0</b>	<b>143,245,044</b>
Fixed Charges and Debt Service	0	0	0	93,995,400	93,995,400
<b>Grand Total</b>	<b>51,445,200</b>	<b>86,712,744</b>	<b>5,087,100</b>	<b>93,995,400</b>	<b>237,240,444</b>

**Board of Water Supply  
Position Budgets  
Fiscal Year 2023**

**Department Summary by Division/Office**

Division Name	Positions				Salary			
	Perm	LTA	PSC	Total	Perm	LTA	PSC	Total
Manager's Office	6.0	0.0	0.0	6.0	620,882	0	0	620,882
Executive Support Office	19.0	0.0	3.0	22.0	1,170,418	0	140,362	1,310,780
Communications Office	11.0	0.0	0.0	11.0	788,375	0	0	788,375
Human Resources Office	10.0	0.0	0.0	10.0	627,492	0	0	627,492
Water Quality	32.0	0.0	3.0	35.0	1,840,743	0	79,085	1,919,828
Customer Care	68.0	4.0	2.0	74.0	3,432,457	162,784	54,845	3,650,086
Land	5.0	0.0	0.0	5.0	311,641	0	0	311,641
Water Resources	36.0	0.0	0.0	36.0	2,585,436	0	0	2,585,436
Field Operations	258.0	0.0	9.0	267.0	14,519,636	0	246,300	14,765,936
Capital Projects	81.0	0.0	0.0	81.0	5,642,606	0	0	5,642,606
Water System Operations	108.0	0.0	1.0	109.0	6,448,630	0	0	6,448,630
Information Technology	55.0	0.0	1.0	56.0	3,933,283	0	78,612	4,011,895
Finance	42.0	0.0	0.0	42.0	2,335,222	0	0	2,335,222
<b>Total</b>	<b>731.0</b>	<b>4.0</b>	<b>19.0</b>	<b>754.0</b>	<b>44,256,820</b>	<b>162,784</b>	<b>599,204</b>	<b>45,018,807</b>



Board of Water Supply  
Operating Budget  
Debt Service  
Fiscal Year 2023

DEBT SERVICE

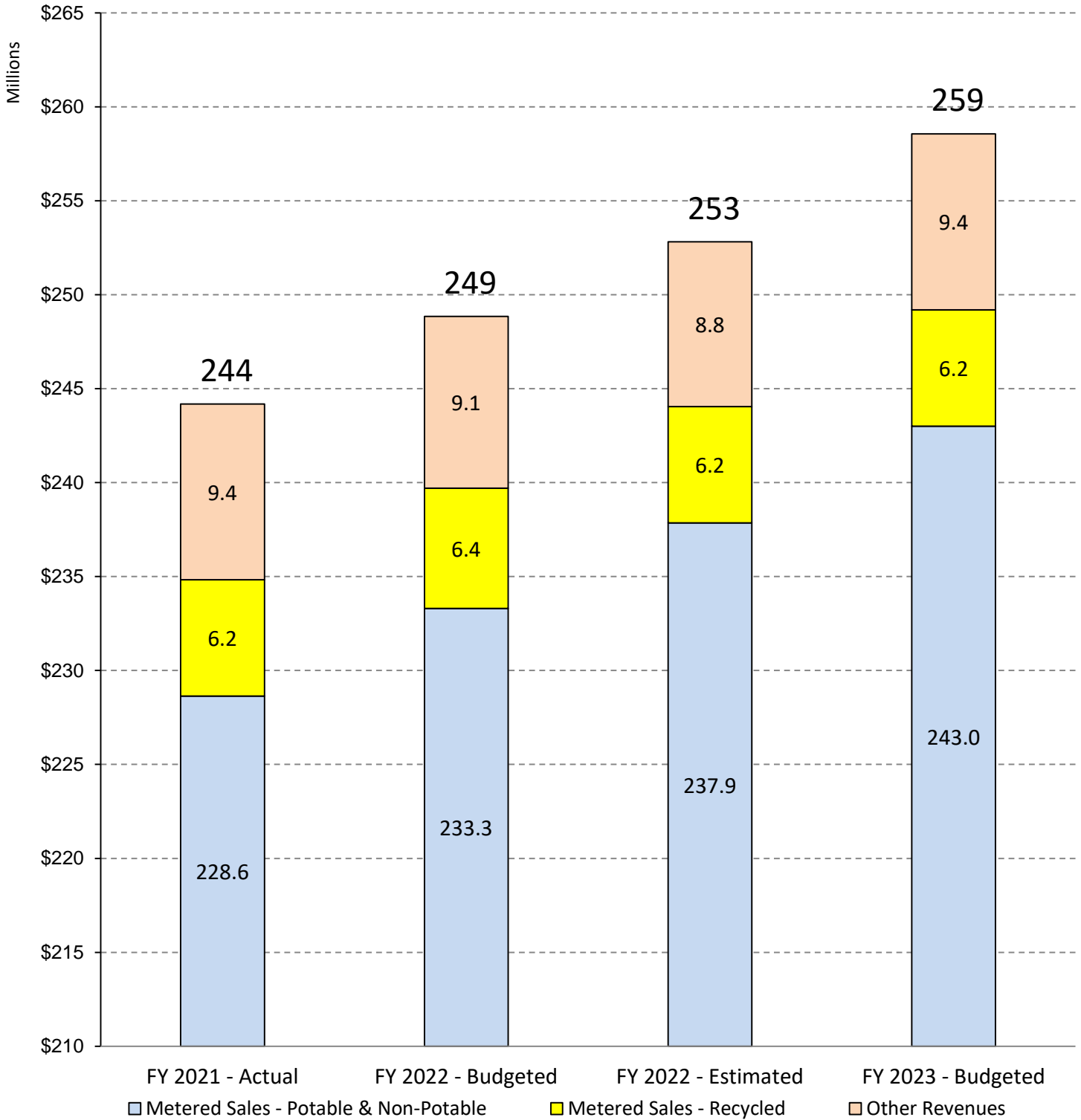
ISSUE	FY 2021 Actual	FY 2022 Budget	FY 2023 Budget
Water System Revenue Bonds:			
Series 2012A	7,819,875	8,962,000	
Series 2014 A & B	7,029,476	5,112,000	8,555,000
Series 2020 A & B	4,790,455	4,791,000	4,798,000
Series 2021 A & B	821,169	3,710,000	7,142,000
Series 2022 A & B			6,514,000
Debt Service - Bonds Payable	<u>20,460,975</u>	<u>22,575,000</u>	<u>27,009,000</u>
Notes Payable:			
SRF Loans	5,202,574	8,197,000	8,791,900
Debt Service - Notes Payable	<u>5,202,574</u>	<u>8,197,000</u>	<u>8,791,900</u>
Total	<u><u>25,663,549</u></u>	<u><u>30,772,000</u></u>	<u><u>35,800,900</u></u>

Bond Issues:

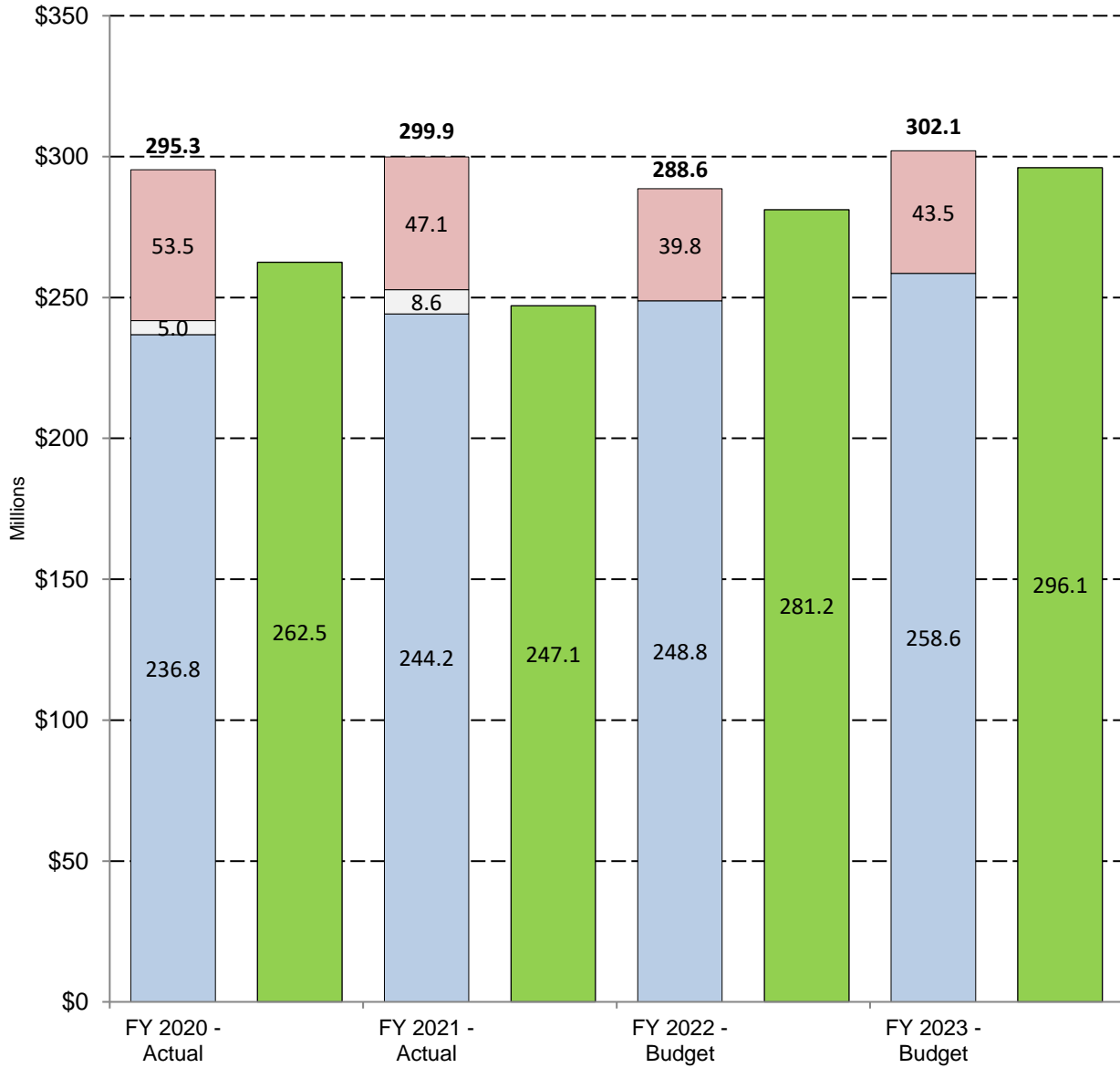
<u>Year Issued</u>	<u>Par Amount</u>	<u>Fiscal Year Expires</u>	<u>Years</u>
2012A	\$ 27,115,000	2022	10
2014A	\$ 101,655,000	2031	17
2014B	\$ 25,085,000	2032	18
2020A	\$ 59,105,000	2050	30
2020B	\$ 47,530,000	2034	14
2021A	\$ 50,020,000	2051	30
2021B	\$ 43,515,000	2032	11
2022A	\$ 82,700,000	2052	30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

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**BOARD OF WATER SUPPLY  
OPERATING FUND REVENUES  
FISCAL YEAR 2023**



**BOARD OF WATER SUPPLY  
TOTAL RESOURCES VS. TOTAL EXPENDITURES  
FISCAL YEAR 2023**



■ Revenues

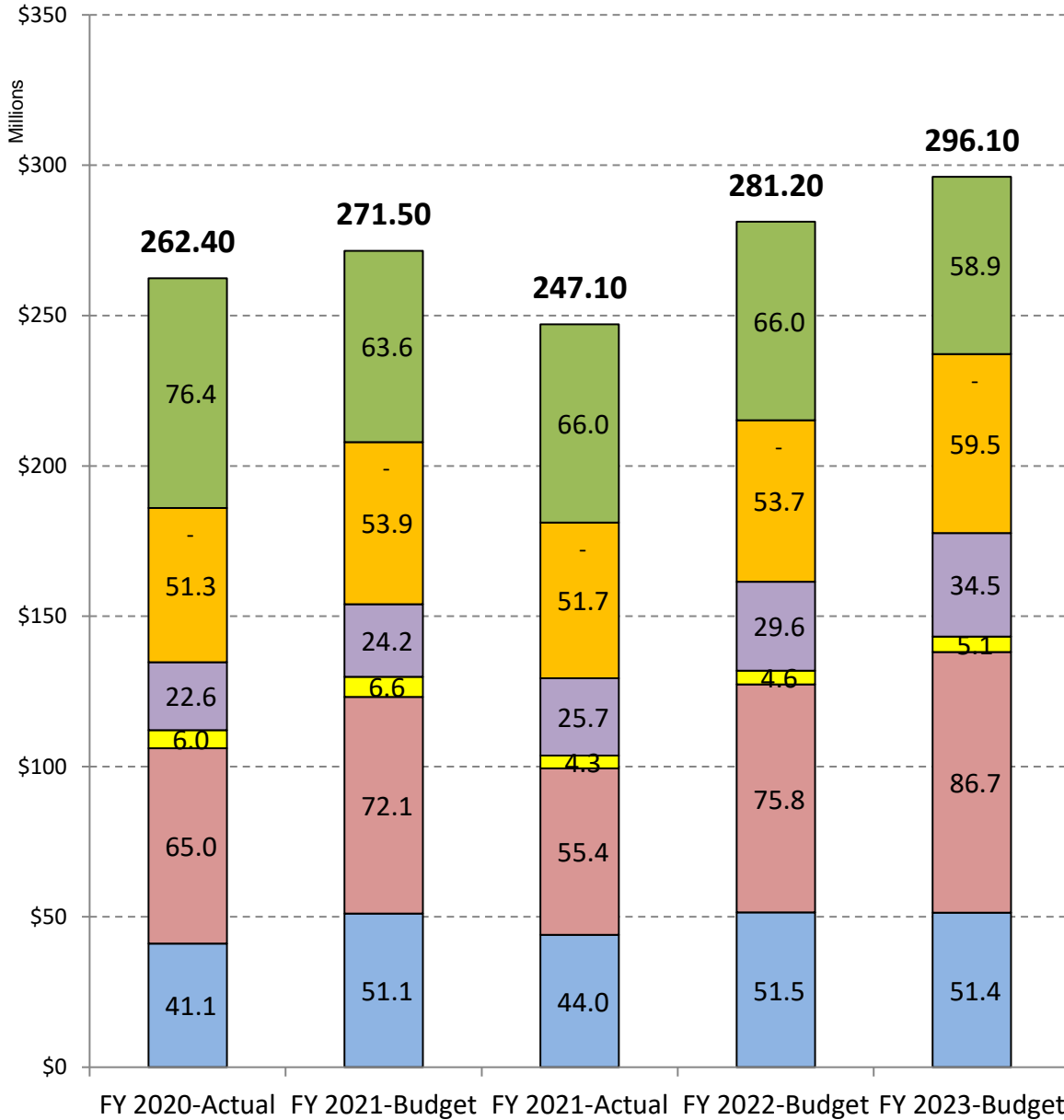
□ Lapses / Adjustments

■ Fund Balance

■ Expenditures

Fiscal Year 2023	
Fund Balance 7/1/2022	\$ 43,468,353
Revenues	\$ <u>258,560,000</u>
Total Resources	\$ 302,028,353
Total Expenditures	\$ <u>-296,091,769</u>
Fund Balance 6/30/2023	\$ <u>5,936,584</u>

**BOARD OF WATER SUPPLY  
OPERATING BUDGET EXPENDITURES (INCLUDING CIP)  
FISCAL YEAR 2023**



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

Fiscal Year 2023	
CIP	\$ 58,851,325
Fixed Charges	\$ 59,484,500
Debt Service	\$ 34,510,900
Equipment	\$ 5,087,100
MS&S	\$ 86,712,744
Personnel Svcs.	\$ 51,445,200
Transfer to Spec Ex	\$ -0-
<b>Total</b>	<b>\$ 296,091,769</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 2023**

**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	611,393	620,100	533,800	620,800	87,000
4120 - Overtime	1,187	1,000	2,000	2,000	0
<b>Personnel Services</b>	<b>612,580</b>	<b>621,100</b>	<b>535,800</b>	<b>622,800</b>	<b>87,000</b>
M 4160 - Meals; Mileage & Uniform Allowances	50	0	0	0	0
4250 - Other Contractual Services	3,443	4,600	24,600	24,600	0
4255 - Other Services	315	31,300	58,800	58,800	0
4260 - Advertising & Publication of Notices	0	500	500	500	0
4265 - Printing	0	1,000	1,000	1,000	0
4270 - Professional Services	18,875	135,000	35,000	35,000	0
4430 - Miscellaneous Supplies	3,336	5,000	5,000	5,000	0
4460 - Other Materials & Supplies	7,115	10,000	10,000	10,000	0
4500 - Education and Training	1,740	0	0	0	0
4720 - Conference Travel & Expenses	2,165	49,240	38,240	37,640	(600)
4815 - Repair & Maint - Equipment	154	3,000	3,000	3,000	0
4910 - Miscellaneous Fees & Registration	156,652	210,710	210,510	210,510	0
<b>Materials, Supplies and Services</b>	<b>193,846</b>	<b>450,350</b>	<b>386,650</b>	<b>386,050</b>	<b>(600)</b>
<b>Total Manager's Office</b>	<b>806,426</b>	<b>1,071,450</b>	<b>922,450</b>	<b>1,008,850</b>	<b>86,400</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	1,141,650	1,228,100	1,267,100	1,310,700	43,600
4120 - Overtime	93,773	31,538	54,000	57,000	3,000
4130 - Miscellaneous (Payroll)	18,300	0	36,000	0	(36,000)
<b>Personnel Services</b>	<b>1,253,723</b>	<b>1,259,638</b>	<b>1,357,100</b>	<b>1,367,700</b>	<b>10,600</b>
4160 - Meals; Mileage & Uniform Allowances	4,446	1,500	1,150	1,000	(150)
4250 - Other Contractual Services	1,202,281	2,379,399	2,742,330	3,227,850	485,520
4251 - Software Licenses and Maintenance	28,000	30,000	35,000	35,000	0
4265 - Printing	426	850	600	600	0
4270 - Professional Services	1,169,633	1,489,200	1,379,200	1,490,000	110,800
4430 - Miscellaneous Supplies	58,048	14,800	25,600	10,000	(15,600)
4460 - Other Materials & Supplies	283	0	0	0	0
4500 - Education and Training	2,535	4,500	4,900	14,675	9,775
4720 - Conference Travel & Expenses	486	12,000	3,500	500	(3,000)
4805 - Repair & Maint - Structures	0	20,000	25,000	0	(25,000)
4910 - Miscellaneous Fees & Registration	2,583	1,250	3,650	3,350	(300)
5700 - Insurance	1,018,347	850,000	1,110,835	1,242,772	131,937
6340 - Workers Compensation Benefits	1,057,228	1,316,000	1,316,000	1,270,000	(46,000)
6350 - Claims for Pers Injuries & Prop Damage	997,394	1,250,000	1,000,000	1,250,000	250,000
8050 - Equipment (under \$5,000)	3,631	38,600	25,000	0	(25,000)
<b>Materials, Supplies and Services</b>	<b>5,545,321</b>	<b>7,408,099</b>	<b>7,672,765</b>	<b>8,545,747</b>	<b>872,982</b>
1270 - General Plant & Equip (over \$5,000)	0	25,000	25,000	0	(25,000)
<b>Equipment</b>	<b>0</b>	<b>25,000</b>	<b>25,000</b>	<b>0</b>	<b>(25,000)</b>
<b>Total ESO - Executive Support Office</b>	<b>6,799,043</b>	<b>8,692,737</b>	<b>9,054,865</b>	<b>9,913,447</b>	<b>858,582</b>

Notes

**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**ESO - Executive Support Office**

**5105 - Executive Support Office - Administration**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	155,106	148,800	232,800	153,900	(78,900)
4120 - Overtime	7,161	650	7,500	2,500	(5,000)
4130 - Miscellaneous (Payroll)	2,800	0	0	0	0
<b>Personnel Services</b>	<b>165,068</b>	<b>149,450</b>	<b>240,300</b>	<b>156,400</b>	<b>(83,900)</b>
4160 - Meals; Mileage & Uniform Allowances	318	0	0	0	0
4250 - Other Contractual Services	44,989	17,500	16,000	23,020	7,020
4265 - Printing	0	250	0	0	0
4270 - Professional Services	0	209,200	209,200	220,000	10,800
4430 - Miscellaneous Supplies	16,602	1,500	3,000	3,000	0
4500 - Education and Training	500	500	500	500	0
4720 - Conference Travel & Expenses	336	2,000	0	0	0
<b>Materials, Supplies and Services</b>	<b>62,745</b>	<b>230,950</b>	<b>228,700</b>	<b>246,520</b>	<b>17,820</b>
<b>Total Executive Support Office - Administration</b>	<b>227,812</b>	<b>380,400</b>	<b>469,000</b>	<b>402,920</b>	<b>(66,080)</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	312,518	335,400	336,200	343,700	7,500
4120 - Overtime	1,655	6,950	6,000	5,000	(1,000)
4130 - Miscellaneous (Payroll)	2,800	0	0	0	0
<b>Personnel Services</b>	<b>316,972</b>	<b>342,350</b>	<b>342,200</b>	<b>348,700</b>	<b>6,500</b>
4160 - Meals; Mileage & Uniform Allowances	210	1,200	750	500	(250)
4250 - Other Contractual Services	23,364	17,899	17,730	18,630	900
4270 - Professional Services	1,169,633	1,050,000	1,170,000	1,270,000	100,000
4430 - Miscellaneous Supplies	8,193	7,300	7,600	7,000	(600)
4500 - Education and Training	2,035	2,750	2,900	13,175	10,275
4720 - Conference Travel & Expenses	150	10,000	3,500	500	(3,000)
4910 - Miscellaneous Fees & Registration	2,583	1,250	3,650	3,350	(300)
5700 - Insurance	1,018,347	850,000	1,110,835	1,242,772	131,937
6340 - Workers Compensation Benefits	1,057,228	1,316,000	1,316,000	1,270,000	(46,000)
6350 - Claims for Pers Injuries & Prop Damage	997,394	1,250,000	1,000,000	1,250,000	250,000
<b>Materials, Supplies and Services</b>	<b>4,279,136</b>	<b>4,506,399</b>	<b>4,632,965</b>	<b>5,075,927</b>	<b>442,962</b>
<b>Total Risk Management</b>	<b>4,596,108</b>	<b>4,848,749</b>	<b>4,975,165</b>	<b>5,424,627</b>	<b>449,462</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	186,860	159,000	92,100	242,400	150,300
4120 - Overtime	1,260	6,250	6,500	6,500	0
4130 - Miscellaneous (Payroll)	8,400	0	0	0	0
<b>Personnel Services</b>	<b>196,520</b>	<b>165,250</b>	<b>98,600</b>	<b>248,900</b>	<b>150,300</b>
4160 - Meals; Mileage & Uniform Allowances	106	300	400	500	100
4250 - Other Contractual Services	1,102,870	2,344,000	2,708,600	3,186,200	477,600
4270 - Professional Services	0	100,000	0	0	0
4430 - Miscellaneous Supplies	33,126	6,000	15,000	0	(15,000)
4805 - Repair & Maint - Structures	0	20,000	25,000	0	(25,000)
8050 - Equipment (under \$5,000)	3,773	35,000	25,000	0	(25,000)
<b>Materials, Supplies and Services</b>	<b>1,139,874</b>	<b>2,505,300</b>	<b>2,774,000</b>	<b>3,186,700</b>	<b>412,700</b>
1270 - General Plant & Equip (over \$5,000)	0	25,000	25,000	0	(25,000)
<b>Equipment</b>	<b>0</b>	<b>25,000</b>	<b>25,000</b>	<b>0</b>	<b>(25,000)</b>
<b>Total Security Office</b>	<b>1,336,394</b>	<b>2,695,550</b>	<b>2,897,600</b>	<b>3,435,600</b>	<b>538,000</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	193,027	213,000	218,000	214,000	(4,000)
4120 - Overtime	2,571	3,688	4,000	3,000	(1,000)
4130 - Miscellaneous (Payroll)	0	0	36,000	0	(36,000)
<b>Personnel Services</b>	<b>195,598</b>	<b>216,688</b>	<b>258,000</b>	<b>217,000</b>	<b>(41,000)</b>
4160 - Meals; Mileage & Uniform Allowances	24	0	0	0	0
4250 - Other Contractual Services	30,352	0	0	0	0
4251 - Software Licenses and Maintenance	28,000	30,000	35,000	35,000	0
4265 - Printing	426	600	600	600	0
8050 - Equipment (under \$5,000)	0	3,600	0	0	0
<b>Materials, Supplies and Services</b>	<b>58,802</b>	<b>34,200</b>	<b>35,600</b>	<b>35,600</b>	<b>0</b>
<b>Total Management and Budget</b>	<b>254,400</b>	<b>250,888</b>	<b>293,600</b>	<b>252,600</b>	<b>(41,000)</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	294,139	371,900	388,000	356,700	(31,300)
4120 - Overtime	81,125	14,000	30,000	40,000	10,000
4130 - Miscellaneous (Payroll)	4,300	0	0	0	0
<b>Personnel Services</b>	<b>379,565</b>	<b>385,900</b>	<b>418,000</b>	<b>396,700</b>	<b>(21,300)</b>
4160 - Meals; Mileage & Uniform Allowances	3,789	0	0	0	0
4250 - Other Contractual Services	707	0	0	0	0
4270 - Professional Services	0	130,000	0	0	0
4430 - Miscellaneous Supplies	126	0	0	0	0
4460 - Other Materials & Supplies	283	0	0	0	0
4500 - Education and Training	0	1,250	1,500	1,000	(500)
8050 - Equipment (under \$5,000)	(142)	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>4,763</b>	<b>131,250</b>	<b>1,500</b>	<b>1,000</b>	<b>(500)</b>
<b>Total Procurement Section</b>	<b>384,328</b>	<b>517,150</b>	<b>419,500</b>	<b>397,700</b>	<b>(21,800)</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**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, 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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	881,507	779,800	811,800	788,400	(23,400)
4120 - Overtime	33,892	48,000	39,172	45,078	5,906
4130 - Miscellaneous (Payroll)	5,850	26,800	27,604	28,708	1,104
<b>Personnel Services</b>	<b>921,249</b>	<b>854,600</b>	<b>878,576</b>	<b>862,186</b>	<b>(16,390)</b>
4160 - Meals; Mileage & Uniform Allowances	1,398	2,500	2,500	2,500	0
4250 - Other Contractual Services	359,474	348,378	345,504	383,559	38,055
4251 - Software Licenses and Maintenance	1,811	9,469	11,059	23,516	12,457
4265 - Printing	17,008	43,900	64,950	47,100	(17,850)
4270 - Professional Services	0	0	0	59,200	59,200
4430 - Miscellaneous Supplies	496	3,000	2,000	2,176	176
4460 - Other Materials & Supplies	15,336	35,644	45,806	61,006	15,200
4480 - Postage	382	660	15,660	660	(15,000)
4500 - Education and Training	0	250	5,030	3,100	(1,930)
4815 - Repair & Maint - Equipment	0	1,032	1,080	1,080	0
4910 - Miscellaneous Fees & Registration	2,518	684	1,018	7,550	6,532
8050 - Equipment (under \$5,000)	0	1,560	2,256	4,233	1,977
<b>Materials, Supplies and Services</b>	<b>398,424</b>	<b>447,077</b>	<b>496,863</b>	<b>595,680</b>	<b>98,817</b>
<b>Total Communications Office</b>	<b>1,319,673</b>	<b>1,301,677</b>	<b>1,375,439</b>	<b>1,457,866</b>	<b>82,427</b>

**Budget Highlights**



**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	522,165	581,000	588,900	627,500	38,600
4120 - Overtime	17,179	5,000	5,000	5,000	0
4130 - Miscellaneous (Payroll)	11,200	0	0	0	0
<b>Personnel Services</b>	<b>550,544</b>	<b>586,000</b>	<b>593,900</b>	<b>632,500</b>	<b>38,600</b>
4160 - Meals; Mileage & Uniform Allowances	476	300	300	300	0
4250 - Other Contractual Services	2,531	130,000	30,000	130,000	100,000
4260 - Advertising & Publication of Notices	3,355	5,000	5,000	5,000	0
4430 - Miscellaneous Supplies	1,360	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	5,010	6,000	6,000	6,000	0
4480 - Postage	48	100	100	100	0
4500 - Education and Training	19,159	60,000	60,000	60,000	0
4720 - Conference Travel & Expenses	5,380	16,100	16,100	8,400	(7,700)
4815 - Repair & Maint - Equipment	107	550	550	550	0
4910 - Miscellaneous Fees & Registration	2,406	550	550	550	0
<b>Materials, Supplies and Services</b>	<b>39,831</b>	<b>221,100</b>	<b>121,100</b>	<b>213,400</b>	<b>92,300</b>
1270 - General Plant & Equip (over \$5,000)	0	1,500	0	0	0
<b>Equipment</b>	<b>0</b>	<b>1,500</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Human Resources Office</b>	<b>590,376</b>	<b>808,600</b>	<b>715,000</b>	<b>845,900</b>	<b>130,900</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**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.

<b>Account</b>	<b>FY2021 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>	<b>Change</b>
4110 - Salaries & Wages	1,743,671	1,857,000	1,775,400	1,919,900	144,500
4120 - Overtime	200,033	320,000	200,000	200,000	0
4130 - Miscellaneous (Payroll)	41,164	70,000	60,000	0	(60,000)
<b>Personnel Services</b>	<b>1,984,868</b>	<b>2,247,000</b>	<b>2,035,400</b>	<b>2,119,900</b>	<b>84,500</b>
4160 - Meals; Mileage & Uniform Allowances	6,360	13,210	11,410	13,510	2,100
4250 - Other Contractual Services	635,009	680,500	704,100	940,800	236,700
4270 - Professional Services	6,557,263	8,815,000	10,291,000	12,191,000	1,900,000
4430 - Miscellaneous Supplies	1,352	2,820	500	2,500	2,000
4460 - Other Materials & Supplies	131,923	218,000	130,000	257,000	127,000
4500 - Education and Training	80	29,120	10,300	11,150	850
4720 - Conference Travel & Expenses	102	52,300	2,550	4,175	1,625
4815 - Repair & Maint - Equipment	3,448	36,500	29,250	39,250	10,000
4910 - Miscellaneous Fees & Registration	16,187	26,700	23,700	38,000	14,300
8050 - Equipment (under \$5,000)	62,451	67,450	8,400	1,000	(7,400)
<b>Materials, Supplies and Services</b>	<b>7,414,176</b>	<b>9,941,600</b>	<b>11,211,210</b>	<b>13,498,385</b>	<b>2,287,175</b>
1270 - General Plant & Equip (over \$5,000)	23,610	33,000	74,000	24,000	(50,000)
<b>Equipment</b>	<b>23,610</b>	<b>33,000</b>	<b>74,000</b>	<b>24,000</b>	<b>(50,000)</b>
<b>Total WQ - Water Quality</b>	<b>9,422,654</b>	<b>12,221,600</b>	<b>13,320,610</b>	<b>15,642,285</b>	<b>2,321,675</b>

**Notes**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**WQ - Water Quality**

**5250 - Water Quality Administration**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	372,907	407,300	337,800	380,900	43,100
4130 - Miscellaneous (Payroll)	6,000	0	0	0	0
<b>Personnel Services</b>	<b>378,907</b>	<b>407,300</b>	<b>337,800</b>	<b>380,900</b>	<b>43,100</b>
M 4160 - Meals; Mileage & Uniform Allowances	0	10	10	10	0
4250 - Other Contractual Services	4,309	3,600	20,000	20,000	0
4270 - Professional Services	6,532,618	8,575,000	10,125,000	12,030,000	1,905,000
4430 - Miscellaneous Supplies	1,315	1,000	500	500	0
4460 - Other Materials & Supplies	25,444	76,000	7,000	6,000	(1,000)
4500 - Education and Training	40	21,800	1,500	4,100	2,600
4720 - Conference Travel & Expenses	102	32,700	1,550	3,000	1,450
4815 - Repair & Maint - Equipment	3,448	0	2,000	2,000	0
4910 - Miscellaneous Fees & Registration	40	2,000	0	0	0
8050 - Equipment (under \$5,000)	10,719	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>6,578,035</b>	<b>8,712,110</b>	<b>10,157,560</b>	<b>12,065,610</b>	<b>1,908,050</b>
<b>Total Water Quality Administration</b>	<b>6,956,942</b>	<b>9,119,410</b>	<b>10,495,360</b>	<b>12,446,510</b>	<b>1,951,150</b>

**Budget Highlights**

**Board of Water Supply  
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**WQ - Water Quality**

**5251 - Chemical Laboratory**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	571,686	552,000	538,300	608,900	70,600
4120 - Overtime	66,680	50,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	11,400	40,000	30,000	0	(30,000)
<b>Personnel Services</b>	<b>649,765</b>	<b>642,000</b>	<b>618,300</b>	<b>658,900</b>	<b>40,600</b>
4160 - Meals; Mileage & Uniform Allowances	1,078	1,200	1,400	1,500	100
4250 - Other Contractual Services	615,853	662,300	665,600	901,300	235,700
4270 - Professional Services	24,645	140,000	91,000	86,000	(5,000)
4430 - Miscellaneous Supplies	0	1,820	0	2,000	2,000
4460 - Other Materials & Supplies	35,814	40,000	0	45,000	45,000
4500 - Education and Training	40	1,720	1,600	3,250	1,650
4720 - Conference Travel & Expenses	0	6,300	1,000	200	(800)
4815 - Repair & Maint - Equipment	0	15,000	6,750	15,750	9,000
4910 - Miscellaneous Fees & Registration	3,314	7,500	7,700	9,100	1,400
8050 - Equipment (under \$5,000)	2,802	8,050	2,000	1,000	(1,000)
<b>Materials, Supplies and Services</b>	<b>683,546</b>	<b>883,890</b>	<b>777,050</b>	<b>1,065,100</b>	<b>288,050</b>
1270 - General Plant & Equip (over \$5,000)	6,936	8,000	0	0	0
<b>Equipment</b>	<b>6,936</b>	<b>8,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Chemical Laboratory</b>	<b>1,340,248</b>	<b>1,533,890</b>	<b>1,395,350</b>	<b>1,724,000</b>	<b>328,650</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**WQ - Water Quality**

**5252 - Microbiological Laboratory**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	566,283	618,800	618,600	644,300	25,700
4120 - Overtime	42,310	120,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	8,450	30,000	30,000	0	(30,000)
<b>Personnel Services</b>	<b>617,043</b>	<b>768,800</b>	<b>698,600</b>	<b>694,300</b>	<b>(4,300)</b>
4160 - Meals; Mileage & Uniform Allowances	2,042	5,000	5,000	5,000	0
4250 - Other Contractual Services	13,557	5,600	11,500	12,500	1,000
4270 - Professional Services	0	100,000	75,000	75,000	0
4430 - Miscellaneous Supplies	37	0	0	0	0
4460 - Other Materials & Supplies	70,665	58,000	70,000	70,000	0
4500 - Education and Training	0	5,600	4,200	2,800	(1,400)
4720 - Conference Travel & Expenses	0	13,300	0	975	975
4815 - Repair & Maint - Equipment	0	4,000	3,000	4,000	1,000
4910 - Miscellaneous Fees & Registration	12,833	14,200	15,000	27,900	12,900
8050 - Equipment (under \$5,000)	192	4,900	2,100	0	(2,100)
<b>Materials, Supplies and Services</b>	<b>99,326</b>	<b>210,600</b>	<b>185,800</b>	<b>198,175</b>	<b>12,375</b>
1270 - General Plant & Equip (over \$5,000)	10,868	20,000	6,000	24,000	18,000
<b>Equipment</b>	<b>10,868</b>	<b>20,000</b>	<b>6,000</b>	<b>24,000</b>	<b>18,000</b>
<b>Total Microbiological Laboratory</b>	<b>727,238</b>	<b>999,400</b>	<b>890,400</b>	<b>916,475</b>	<b>26,075</b>

**Budget Highlights**

**Board of Water Supply  
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Fiscal Year 2023**

**WQ - Water Quality**

**5255 - Cross-Connection Control**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	232,795	278,900	280,700	285,800	5,100
4120 - Overtime	91,043	150,000	100,000	100,000	0
4130 - Miscellaneous (Payroll)	15,314	0	0	0	0
<b>Personnel Services</b>	<b>339,152</b>	<b>428,900</b>	<b>380,700</b>	<b>385,800</b>	<b>5,100</b>
4160 - Meals; Mileage & Uniform Allowances	3,240	7,000	5,000	7,000	2,000
4250 - Other Contractual Services	1,290	9,000	7,000	7,000	0
4460 - Other Materials & Supplies	0	44,000	53,000	136,000	83,000
4500 - Education and Training	0	0	3,000	1,000	(2,000)
4815 - Repair & Maint - Equipment	0	17,500	17,500	17,500	0
4910 - Miscellaneous Fees & Registration	0	3,000	1,000	1,000	0
8050 - Equipment (under \$5,000)	48,738	54,500	4,300	0	(4,300)
<b>Materials, Supplies and Services</b>	<b>53,268</b>	<b>135,000</b>	<b>90,800</b>	<b>169,500</b>	<b>78,700</b>
E 1270 - General Plant & Equip (over \$5,000)	5,806	5,000	68,000	0	(68,000)
<b>Equipment</b>	<b>5,806</b>	<b>5,000</b>	<b>68,000</b>	<b>0</b>	<b>(68,000)</b>
<b>Total Cross-Connection Control</b>	<b>398,226</b>	<b>568,900</b>	<b>539,500</b>	<b>555,300</b>	<b>15,800</b>

**Budget Highlights**

**Board of Water Supply  
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**CC - Customer Care**

**Division/Office's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	3,276,303	4,028,900	3,952,400	3,650,200	(302,200)
4120 - Overtime	225,040	451,000	327,440	378,600	51,160
4130 - Miscellaneous (Payroll)	358,937	116,000	119,000	146,000	27,000
<b>Personnel Services</b>	<b>3,860,281</b>	<b>4,595,900</b>	<b>4,398,840</b>	<b>4,174,800</b>	<b>(224,040)</b>
4160 - Meals; Mileage & Uniform Allowances	17,057	29,560	32,700	25,800	(6,900)
4220 - Collection Fees	620,069	876,000	872,820	850,240	(22,580)
4250 - Other Contractual Services	60,339	66,645	77,420	66,300	(11,120)
4260 - Advertising & Publication of Notices	295	0	0	0	0
4267 - Printed forms	1,567	5,000	3,680	0	(3,680)
4430 - Miscellaneous Supplies	7,822	17,200	11,900	32,400	20,500
4460 - Other Materials & Supplies	16,434	14,000	14,500	14,000	(500)
4480 - Postage	14,326	15,600	30,000	30,000	0
4500 - Education and Training	0	13,800	12,000	0	(12,000)
4815 - Repair & Maint - Equipment	2,017	6,000	11,200	24,400	13,200
4910 - Miscellaneous Fees & Registration	440	8,400	6,650	7,900	1,250
8050 - Equipment (under \$5,000)	38,949	33,700	1,700	26,300	24,600
<b>Materials, Supplies and Services</b>	<b>779,315</b>	<b>1,085,905</b>	<b>1,074,570</b>	<b>1,077,340</b>	<b>2,770</b>
1270 - General Plant & Equip (over \$5,000)	0	10,000	10,000	11,000	1,000
<b>Equipment</b>	<b>0</b>	<b>10,000</b>	<b>10,000</b>	<b>11,000</b>	<b>1,000</b>
<b>Total CC - Customer Care</b>	<b>4,639,596</b>	<b>5,691,805</b>	<b>5,483,410</b>	<b>5,263,140</b>	<b>(220,270)</b>

**Notes**

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**CC - Customer Care**

**5300 - Customer Care Administration**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	279,974	266,300	265,600	367,800	102,200
4120 - Overtime	2,551	6,000	7,440	30,000	22,560
4130 - Miscellaneous (Payroll)	4,300	0	0	0	0
<b>Personnel Services</b>	<b>286,824</b>	<b>272,300</b>	<b>273,040</b>	<b>397,800</b>	<b>124,760</b>
4160 - Meals; Mileage & Uniform Allowances	30	200	200	0	(200)
4250 - Other Contractual Services	3,242	5,620	8,120	15,400	7,280
4430 - Miscellaneous Supplies	6,815	13,800	10,000	30,000	20,000
4460 - Other Materials & Supplies	5,123	0	0	1,000	1,000
4480 - Postage	0	0	0	30,000	30,000
4500 - Education and Training	0	12,000	0	0	0
4910 - Miscellaneous Fees & Registration	405	400	900	900	0
8050 - Equipment (under \$5,000)	0	2,700	1,000	0	(1,000)
<b>Materials, Supplies and Services</b>	<b>15,614</b>	<b>34,720</b>	<b>20,220</b>	<b>77,300</b>	<b>57,080</b>
<b>Total Customer Care Administration</b>	<b>302,438</b>	<b>307,020</b>	<b>293,260</b>	<b>475,100</b>	<b>181,840</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 cashiering service for payment of water and sewer bills; processes payments made by mail and through charge cards, E-bill, automatic bill payment, and Satellite City Halls; maintains records of delinquent and inactive accounts; performs all field collection and customer service work required to maintain an effective billing and collection program.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	494,819	842,800	734,100	670,600	(63,500)
4120 - Overtime	4,112	15,000	25,000	36,000	11,000
4130 - Miscellaneous (Payroll)	125,102	30,000	30,000	43,000	13,000
<b>Personnel Services</b>	<b>624,032</b>	<b>887,800</b>	<b>789,100</b>	<b>749,600</b>	<b>(39,500)</b>
4160 - Meals; Mileage & Uniform Allowances	1,025	4,260	5,500	2,400	(3,100)
4220 - Collection Fees	620,069	876,000	872,820	850,240	(22,580)
4250 - Other Contractual Services	14,922	18,425	24,100	14,200	(9,900)
4260 - Advertising & Publication of Notices	295	0	0	0	0
4267 - Printed forms	1,567	5,000	3,680	0	(3,680)
4430 - Miscellaneous Supplies	955	3,400	1,900	2,400	500
4460 - Other Materials & Supplies	2,078	1,500	2,500	0	(2,500)
4480 - Postage	14,326	15,600	30,000	0	(30,000)
4500 - Education and Training	0	1,800	0	0	0
4815 - Repair & Maint - Equipment	0	0	1,200	0	(1,200)
4910 - Miscellaneous Fees & Registration	35	0	0	0	0
8050 - Equipment (under \$5,000)	0	6,000	700	0	(700)
<b>Materials, Supplies and Services</b>	<b>655,272</b>	<b>931,985</b>	<b>942,400</b>	<b>869,240</b>	<b>(73,160)</b>
<b>Total Collection and Credit</b>	<b>1,279,304</b>	<b>1,819,785</b>	<b>1,731,500</b>	<b>1,618,840</b>	<b>(112,660)</b>

**Budget Highlights**

**Board of Water Supply  
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	346,525	377,700	394,600	388,800	(5,800)
4120 - Overtime	19,510	20,000	20,000	20,000	0
4130 - Miscellaneous (Payroll)	11,200	0	0	18,000	18,000
<b>Personnel Services</b>	<b>377,235</b>	<b>397,700</b>	<b>414,600</b>	<b>426,800</b>	<b>12,200</b>
4160 - Meals; Mileage & Uniform Allowances	492	0	0	0	0
4250 - Other Contractual Services	494	600	600	600	0
4460 - Other Materials & Supplies	260	2,000	2,000	2,000	0
<b>Materials, Supplies and Services</b>	<b>1,246</b>	<b>2,600</b>	<b>2,600</b>	<b>2,600</b>	<b>0</b>
<b>Total Service Engineering</b>	<b>378,481</b>	<b>400,300</b>	<b>417,200</b>	<b>429,400</b>	<b>12,200</b>

**Budget Highlights**

**Board of Water Supply  
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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.

A reorganization transferred this program to the Water Quality Division (see page OP-14).

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	11,796	0	0	0	0
4120 - Overtime	2,736	0	0	0	0
<b>Personnel Services</b>	<b>14,532</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
M 4160 - Meals; Mileage & Uniform Allowances	130	0	0	0	0
4250 - Other Contractual Services	6,642	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>6,772</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Cross-Connection Control</b>	<b>21,304</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 BWS personnel in other divisions with information, statistics, and status of accounts via computer terminals and services files.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	1,001,171	1,287,800	1,361,100	1,042,500	(318,600)
4120 - Overtime	29,097	50,000	50,000	52,600	2,600
4130 - Miscellaneous (Payroll)	127,530	27,000	30,000	15,000	(15,000)
<b>Personnel Services</b>	<b>1,157,799</b>	<b>1,364,800</b>	<b>1,441,100</b>	<b>1,110,100</b>	<b>(331,000)</b>
4160 - Meals; Mileage & Uniform Allowances	3,366	2,700	7,000	3,000	(4,000)
4250 - Other Contractual Services	0	0	600	600	0
4430 - Miscellaneous Supplies	52	0	0	0	0
4500 - Education and Training	0	0	12,000	0	(12,000)
<b>Materials, Supplies and Services</b>	<b>3,419</b>	<b>2,700</b>	<b>19,600</b>	<b>3,600</b>	<b>(16,000)</b>
<b>Total Customer Service and Records</b>	<b>1,161,217</b>	<b>1,367,500</b>	<b>1,460,700</b>	<b>1,113,700</b>	<b>(347,000)</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,142,019	1,254,300	1,197,000	1,180,500	(16,500)
4120 - Overtime	167,035	360,000	225,000	240,000	15,000
4130 - Miscellaneous (Payroll)	90,805	59,000	59,000	70,000	11,000
<b>Personnel Services</b>	<b>1,399,860</b>	<b>1,673,300</b>	<b>1,481,000</b>	<b>1,490,500</b>	<b>9,500</b>
4160 - Meals; Mileage & Uniform Allowances	12,013	22,400	20,000	20,400	400
4250 - Other Contractual Services	35,039	42,000	44,000	35,500	(8,500)
4460 - Other Materials & Supplies	8,973	10,500	10,000	11,000	1,000
4815 - Repair & Maint - Equipment	2,017	6,000	10,000	24,400	14,400
4910 - Miscellaneous Fees & Registration	0	8,000	5,750	7,000	1,250
8050 - Equipment (under \$5,000)	38,949	25,000	0	26,300	26,300
<b>Materials, Supplies and Services</b>	<b>96,991</b>	<b>113,900</b>	<b>89,750</b>	<b>124,600</b>	<b>34,850</b>
1270 - General Plant & Equip (over \$5,000)	0	10,000	10,000	11,000	1,000
<b>Equipment</b>	<b>0</b>	<b>10,000</b>	<b>10,000</b>	<b>11,000</b>	<b>1,000</b>
<b>Total Investigation</b>	<b>1,496,851</b>	<b>1,797,200</b>	<b>1,580,750</b>	<b>1,626,100</b>	<b>45,350</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	277,388	285,300	309,600	311,600	2,000
4120 - Overtime	21,762	24,300	24,300	27,000	2,700
4130 - Miscellaneous (Payroll)	7,100	0	0	0	0
<b>Personnel Services</b>	<b>306,250</b>	<b>309,600</b>	<b>333,900</b>	<b>338,600</b>	<b>4,700</b>
4160 - Meals; Mileage & Uniform Allowances	48	1,000	1,000	1,000	0
4210 - Appraisals; Title Searches & Related Costs	12,521	222,500	161,000	110,400	(50,600)
4250 - Other Contractual Services	13,889	14,300	14,100	14,100	0
4270 - Professional Services	0	1,200,000	500,000	0	(500,000)
4430 - Miscellaneous Supplies	322	600	600	600	0
4480 - Postage	342	700	450	200	(250)
4815 - Repair & Maint - Equipment	0	240	240	100	(140)
4910 - Miscellaneous Fees & Registration	20,569	20,400	20,400	20,700	300
8050 - Equipment (under \$5,000)	115	0	1,300	0	(1,300)
<b>Materials, Supplies and Services</b>	<b>47,806</b>	<b>1,459,740</b>	<b>699,090</b>	<b>147,100</b>	<b>(551,990)</b>
<b>Total Land</b>	<b>354,056</b>	<b>1,769,340</b>	<b>1,032,990</b>	<b>485,700</b>	<b>(547,290)</b>

**Budget Highlights**

**Board of Water Supply  
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	2,363,026	2,494,300	2,636,200	2,585,400	(50,800)
4120 - Overtime	96,290	154,545	137,422	134,406	(3,016)
4130 - Miscellaneous (Payroll)	41,858	4,047	4,829	4,728	(101)
<b>Personnel Services</b>	<b>2,501,174</b>	<b>2,652,892</b>	<b>2,778,451</b>	<b>2,724,534</b>	<b>(53,917)</b>
4160 - Meals; Mileage & Uniform Allowances	4,701	5,320	4,873	4,526	(347)
4250 - Other Contractual Services	2,445,690	1,355,420	1,654,000	509,210	(1,144,790)
4255 - Other Services	133,622	944,258	1,107,547	1,046,276	(61,271)
4265 - Printing	214	1,000	1,000	1,000	0
4270 - Professional Services	1,324,828	1,500,000	1,500,000	2,524,032	1,024,032
4430 - Miscellaneous Supplies	3,695	10,000	5,000	5,000	0
4460 - Other Materials & Supplies	2,091	59,200	59,000	73,900	14,900
4480 - Postage	0	480	480	480	0
4500 - Education and Training	530	12,030	12,730	13,080	350
4680 - Telephone	0	2,400	2,400	12,000	9,600
4720 - Conference Travel & Expenses	820	69,470	66,260	37,840	(28,420)
4808 - Repair, Maintenance and Other Services - Photovoltaic (PV)	190,000	0	480,000	495,000	15,000
4810 - Repair & Maint - Recycled Water Plt	457,265	1,889,751	991,959	957,428	(34,531)
4815 - Repair & Maint - Equipment	5,306	31,330	31,790	39,608	7,818
4910 - Miscellaneous Fees & Registration	10,000	11,200	11,200	0	(11,200)
4920 - Non-Potable Water Trtmnt Plt Costs	3,074,295	4,662,868	4,307,792	4,838,161	530,369
4940 - US Geol Surv (USGS) CoOp Invest	181,786	790,000	950,000	885,000	(65,000)
8050 - Equipment (under \$5,000)	4,099	74,000	173,000	198,000	25,000
<b>Materials, Supplies and Services</b>	<b>7,838,943</b>	<b>11,418,727</b>	<b>11,359,031</b>	<b>11,640,541</b>	<b>281,510</b>
1270 - General Plant & Equip (over \$5,000)	0	90,000	21,500	50,000	28,500
<b>Equipment</b>	<b>0</b>	<b>90,000</b>	<b>21,500</b>	<b>50,000</b>	<b>28,500</b>
<b>Total WR - Water Resources</b>	<b>10,340,117</b>	<b>14,161,619</b>	<b>14,158,982</b>	<b>14,415,075</b>	<b>256,093</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 projection; advises and keeps management informed on water resources and administers the pertinent rules and regulations.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	392,111	377,200	373,900	385,800	11,900
4120 - Overtime	976	2,000	2,000	2,000	0
4130 - Miscellaneous (Payroll)	8,600	0	0	0	0
<b>Personnel Services</b>	<b>401,686</b>	<b>379,200</b>	<b>375,900</b>	<b>387,800</b>	<b>11,900</b>
4160 - Meals; Mileage & Uniform Allowances	32	0	0	0	0
4250 - Other Contractual Services	1,183,628	900,000	136,500	0	(136,500)
4265 - Printing	214	0	0	0	0
4270 - Professional Services	0	0	0	950,000	950,000
4430 - Miscellaneous Supplies	3,685	10,000	5,000	5,000	0
4460 - Other Materials & Supplies	94	0	0	0	0
4500 - Education and Training	120	0	0	0	0
4720 - Conference Travel & Expenses	295	7,610	7,610	6,060	(1,550)
4815 - Repair & Maint - Equipment	94	200	200	500	300
4910 - Miscellaneous Fees & Registration	10,000	10,000	10,000	0	(10,000)
<b>Materials, Supplies and Services</b>	<b>1,198,162</b>	<b>927,810</b>	<b>159,310</b>	<b>961,560</b>	<b>802,250</b>
<b>Total Water Resources Administration</b>	<b>1,599,848</b>	<b>1,307,010</b>	<b>535,210</b>	<b>1,349,360</b>	<b>814,150</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	374,431	350,300	427,500	406,500	(21,000)
4120 - Overtime	3,720	8,645	8,645	8,645	0
4130 - Miscellaneous (Payroll)	4,500	0	0	0	0
<b>Personnel Services</b>	<b>382,651</b>	<b>358,945</b>	<b>436,145</b>	<b>415,145</b>	<b>(21,000)</b>
4160 - Meals; Mileage & Uniform Allowances	66	880	880	880	0
4250 - Other Contractual Services	11,241	11,920	102,000	118,710	16,710
4460 - Other Materials & Supplies	1,226	1,500	1,500	1,800	300
4480 - Postage	0	480	480	480	0
4500 - Education and Training	0	8,670	8,670	8,500	(170)
4720 - Conference Travel & Expenses	135	13,170	13,170	13,620	450
4815 - Repair & Maint - Equipment	2,738	7,130	7,590	9,108	1,518
<b>Materials, Supplies and Services</b>	<b>15,405</b>	<b>43,750</b>	<b>134,290</b>	<b>153,098</b>	<b>18,808</b>
E 1270 - General Plant & Equip (over \$5,000)	0	0	21,500	0	(21,500)
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>21,500</b>	<b>0</b>	<b>(21,500)</b>
<b>Total Water System Planning</b>	<b>398,056</b>	<b>402,695</b>	<b>591,935</b>	<b>568,243</b>	<b>(23,692)</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.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	405,602	455,600	462,500	439,800	(22,700)
4120 - Overtime	71,651	41,205	41,205	46,529	5,324
4130 - Miscellaneous (Payroll)	10,847	0	0	0	0
<b>Personnel Services</b>	<b>488,100</b>	<b>496,805</b>	<b>503,705</b>	<b>486,329</b>	<b>(17,376)</b>
4160 - Meals; Mileage & Uniform Allowances	4,016	1,150	1,003	1,000	(3)
4250 - Other Contractual Services	2,916	0	900,000	0	(900,000)
4270 - Professional Services	1,324,828	1,500,000	1,500,000	1,574,032	74,032
4460 - Other Materials & Supplies	(4,609)	15,450	9,250	11,250	2,000
4500 - Education and Training	0	1,600	1,600	1,600	0
4720 - Conference Travel & Expenses	90	24,750	22,940	11,240	(11,700)
4808 - Repair, Maintenance and Other Services - Photovoltaic (PV)	190,000	0	480,000	495,000	15,000
8050 - Equipment (under \$5,000)	0	0	75,000	75,000	0
<b>Materials, Supplies and Services</b>	<b>1,517,241</b>	<b>1,542,950</b>	<b>2,989,793</b>	<b>2,169,122</b>	<b>(820,671)</b>
<b>Total Water Conservation</b>	<b>2,005,341</b>	<b>2,039,755</b>	<b>3,493,498</b>	<b>2,655,451</b>	<b>(838,047)</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
M 4250 - Other Contractual Services	258,260	168,000	240,000	240,000	0
4810 - Repair & Maint - Recycled Water Plt	457,265	1,889,751	991,959	957,428	(34,531)
4920 - Non-Potable Water Trtmnt Plt Costs	3,074,295	4,662,868	4,307,792	4,838,161	530,369
<b>Materials, Supplies and Services</b>	<b>3,789,820</b>	<b>6,720,619</b>	<b>5,539,751</b>	<b>6,035,589</b>	<b>495,838</b>
<b>Total Recycled Water</b>	<b>3,789,820</b>	<b>6,720,619</b>	<b>5,539,751</b>	<b>6,035,589</b>	<b>495,838</b>

**Budget Highlights**

**Board of Water Supply  
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	393,947	526,800	527,400	514,900	(12,500)
4120 - Overtime	12,056	41,195	39,642	39,042	(600)
4130 - Miscellaneous (Payroll)	14,911	4,047	4,829	4,728	(101)
<b>Personnel Services</b>	<b>420,914</b>	<b>572,042</b>	<b>571,871</b>	<b>558,670</b>	<b>(13,201)</b>
4160 - Meals; Mileage & Uniform Allowances	419	1,000	1,000	1,000	0
4250 - Other Contractual Services	958,999	275,000	275,000	150,000	(125,000)
4255 - Other Services	133,622	944,258	1,107,547	1,046,276	(61,271)
4265 - Printing	0	1,000	1,000	1,000	0
4430 - Miscellaneous Supplies	10	0	0	0	0
4460 - Other Materials & Supplies	5,347	41,200	47,200	59,200	12,000
4500 - Education and Training	410	500	1,200	1,600	400
4680 - Telephone	0	2,400	2,400	12,000	9,600
4720 - Conference Travel & Expenses	165	12,500	11,800	900	(10,900)
4815 - Repair & Maint - Equipment	2,475	24,000	24,000	30,000	6,000
4910 - Miscellaneous Fees & Registration	0	1,200	1,200	0	(1,200)
4940 - US Geol Surv (USGS) CoOp Invest	181,786	790,000	950,000	885,000	(65,000)
8050 - Equipment (under \$5,000)	4,099	73,000	97,000	123,000	26,000
<b>Materials, Supplies and Services</b>	<b>1,287,331</b>	<b>2,166,058</b>	<b>2,519,347</b>	<b>2,309,976</b>	<b>(209,371)</b>
E 1270 - General Plant & Equip (over \$5,000)	0	90,000	0	50,000	50,000
<b>Equipment</b>	<b>0</b>	<b>90,000</b>	<b>0</b>	<b>50,000</b>	<b>50,000</b>
<b>Total Hydrology-Geology</b>	<b>1,708,245</b>	<b>2,828,100</b>	<b>3,091,218</b>	<b>2,918,646</b>	<b>(172,572)</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	349,945	337,400	379,800	388,900	9,100
4120 - Overtime	77	4,800	4,800	4,330	(470)
4130 - Miscellaneous (Payroll)	1,500	0	0	0	0
<b>Personnel Services</b>	<b>351,522</b>	<b>342,200</b>	<b>384,600</b>	<b>393,230</b>	<b>8,630</b>
4160 - Meals; Mileage & Uniform Allowances	0	300	300	576	276
4460 - Other Materials & Supplies	0	400	400	1,000	600
4500 - Education and Training	0	630	630	750	120
4720 - Conference Travel & Expenses	90	5,120	5,120	3,000	(2,120)
<b>Materials, Supplies and Services</b>	<b>90</b>	<b>6,450</b>	<b>6,450</b>	<b>5,326</b>	<b>(1,124)</b>
<b>Total Project Review</b>	<b>351,612</b>	<b>348,650</b>	<b>391,050</b>	<b>398,556</b>	<b>7,506</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	446,990	447,000	465,100	449,500	(15,600)
4120 - Overtime	7,811	56,700	41,130	33,860	(7,270)
4130 - Miscellaneous (Payroll)	1,500	0	0	0	0
<b>Personnel Services</b>	<b>456,301</b>	<b>503,700</b>	<b>506,230</b>	<b>483,360</b>	<b>(22,870)</b>
4160 - Meals; Mileage & Uniform Allowances	168	1,990	1,690	1,070	(620)
4250 - Other Contractual Services	30,647	500	500	500	0
4460 - Other Materials & Supplies	33	650	650	650	0
4500 - Education and Training	0	630	630	630	0
4720 - Conference Travel & Expenses	45	6,320	5,620	3,020	(2,600)
8050 - Equipment (under \$5,000)	0	1,000	1,000	0	(1,000)
<b>Materials, Supplies and Services</b>	<b>30,893</b>	<b>11,090</b>	<b>10,090</b>	<b>5,870</b>	<b>(4,220)</b>
<b>Total Long Range Planning</b>	<b>487,195</b>	<b>514,790</b>	<b>516,320</b>	<b>489,230</b>	<b>(27,090)</b>

**Budget Highlights**

**Board of Water Supply  
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	11,734,964	14,880,700	15,438,800	14,765,900	(672,900)
4120 - Overtime	2,115,892	2,470,000	2,445,000	2,425,000	(20,000)
4130 - Miscellaneous (Payroll)	520,301	993,800	1,037,400	984,600	(52,800)
<b>Personnel Services</b>	<b>14,371,157</b>	<b>18,344,500</b>	<b>18,921,200</b>	<b>18,175,500</b>	<b>(745,700)</b>
1110 - Materials & Supplies (Storeroom)	1,652,280	1,600,000	2,200,000	2,420,000	220,000
1120 - Meters (Storeroom)	347,235	2,200,000	2,375,000	2,375,000	0
1125 - AMR Materials & Supplies (Storeroom)	151,960	500,000	300,000	250,000	(50,000)
4160 - Meals; Mileage & Uniform Allowances	112,207	131,500	136,500	135,500	(1,000)
4230 - Emergency & Contracted Road Repairs	8,117,553	6,800,000	8,000,000	8,000,000	0
4250 - Other Contractual Services	709,786	1,612,000	1,612,000	2,758,000	1,146,000
4270 - Professional Services	3,398	75,000	75,000	325,000	250,000
4280 - Refuse Collection & Disposal	1,025,169	840,000	1,200,000	1,200,000	0
4420 - Hauling Charges	(2,000)	160,000	50,000	50,000	0
4430 - Miscellaneous Supplies	9,338	10,000	10,000	10,000	0
4460 - Other Materials & Supplies	541,115	1,041,000	525,000	526,000	1,000
4480 - Postage	8	0	0	0	0
4500 - Education and Training	1,395	45,000	45,000	45,000	0
4720 - Conference Travel & Expenses	315	40,000	40,000	40,000	0
4805 - Repair & Maint - Structures	1,046	60,000	60,000	60,000	0
4815 - Repair & Maint - Equipment	18,208	43,000	43,000	38,000	(5,000)
4910 - Miscellaneous Fees & Registration	90	0	0	0	0
4915 - Miscellaneous Financial Expenses	9,639	0	0	0	0
4923 - Store Materials & Expense	922,418	750,000	750,000	800,000	50,000
8050 - Equipment (under \$5,000)	90,865	177,815	140,825	133,990	(6,835)
<b>Materials, Supplies and Services</b>	<b>13,712,028</b>	<b>16,085,315</b>	<b>17,562,325</b>	<b>19,166,490</b>	<b>1,604,165</b>
1270 - General Plant & Equip (over \$5,000)	46,989	105,000	28,000	39,500	11,500
<b>Equipment</b>	<b>46,989</b>	<b>105,000</b>	<b>28,000</b>	<b>39,500</b>	<b>11,500</b>
<b>Total FO - Field Operations</b>	<b>28,130,174</b>	<b>34,534,815</b>	<b>36,511,525</b>	<b>37,381,490</b>	<b>869,965</b>

**Notes**

**Board of Water Supply  
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**FO - Field Operations**

**5500 - Field Operations Administration**

**Section's Activity**

Administers the affairs of the Field Operations Division.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	446,151	467,200	467,300	383,100	(84,200)
4120 - Overtime	9,050	5,000	10,000	10,000	0
4130 - Miscellaneous (Payroll)	9,900	10,000	10,000	10,000	0
<b>Personnel Services</b>	<b>465,101</b>	<b>482,200</b>	<b>487,300</b>	<b>403,100</b>	<b>(84,200)</b>
4160 - Meals; Mileage & Uniform Allowances	580	5,000	5,000	5,000	0
4230 - Emergency & Contracted Road Repairs	8,117,553	6,800,000	8,000,000	8,000,000	0
4250 - Other Contractual Services	128,774	375,000	375,000	325,000	(50,000)
4270 - Professional Services	3,398	75,000	75,000	325,000	250,000
4280 - Refuse Collection & Disposal	952,285	840,000	1,200,000	1,200,000	0
4430 - Miscellaneous Supplies	3,046	0	0	0	0
4460 - Other Materials & Supplies	7,887	0	0	0	0
4500 - Education and Training	1,395	45,000	45,000	45,000	0
4720 - Conference Travel & Expenses	315	40,000	40,000	40,000	0
4915 - Miscellaneous Financial Expenses	9,639	0	0	0	0
8050 - Equipment (under \$5,000)	0	0	0	13,750	13,750
<b>Materials, Supplies and Services</b>	<b>9,224,873</b>	<b>8,180,000</b>	<b>9,740,000</b>	<b>9,953,750</b>	<b>213,750</b>
<b>Total Field Operations Administration</b>	<b>9,689,973</b>	<b>8,662,200</b>	<b>10,227,300</b>	<b>10,356,850</b>	<b>129,550</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	248,280	477,200	386,800	368,600	(18,200)
4120 - Overtime	7,093	10,000	10,000	10,000	0
4130 - Miscellaneous (Payroll)	16,708	40,000	20,000	10,000	(10,000)
<b>Personnel Services</b>	<b>272,080</b>	<b>527,200</b>	<b>416,800</b>	<b>388,600</b>	<b>(28,200)</b>
4160 - Meals; Mileage & Uniform Allowances	862	3,500	3,500	3,500	0
4250 - Other Contractual Services	0	0	0	200,000	200,000
4460 - Other Materials & Supplies	85	10,000	10,000	10,000	0
4815 - Repair & Maint - Equipment	0	10,000	10,000	5,000	(5,000)
8050 - Equipment (under \$5,000)	0	0	8,250	2,500	(5,750)
<b>Materials, Supplies and Services</b>	<b>947</b>	<b>23,500</b>	<b>31,750</b>	<b>221,000</b>	<b>189,250</b>
E 1270 - General Plant & Equip (over \$5,000)	0	65,000	20,000	10,000	(10,000)
<b>Equipment</b>	<b>0</b>	<b>65,000</b>	<b>20,000</b>	<b>10,000</b>	<b>(10,000)</b>
<b>Total Technical &amp; Operational Support Branch</b>	<b>273,028</b>	<b>615,700</b>	<b>468,550</b>	<b>619,600</b>	<b>151,050</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PC 4110 - Salaries & Wages	829,492	1,435,900	1,310,000	1,054,800	(255,200)
4120 - Overtime	4,604	60,000	30,000	20,000	(10,000)
4130 - Miscellaneous (Payroll)	12,197	40,000	40,000	40,000	0
<b>Personnel Services</b>	<b>846,293</b>	<b>1,535,900</b>	<b>1,380,000</b>	<b>1,114,800</b>	<b>(265,200)</b>
1120 - Meters (Storeroom)	347,235	2,200,000	2,375,000	2,375,000	0
1125 - AMR Materials & Supplies (Storeroom)	151,960	500,000	300,000	250,000	(50,000)
4160 - Meals; Mileage & Uniform Allowances	1,200	3,000	3,000	3,000	0
4250 - Other Contractual Services	68,848	25,000	25,000	0	(25,000)
4430 - Miscellaneous Supplies	63	0	0	0	0
4460 - Other Materials & Supplies	12,639	30,000	30,000	30,000	0
4910 - Miscellaneous Fees & Registration	50	0	0	0	0
8050 - Equipment (under \$5,000)	11,676	13,075	29,975	0	(29,975)
<b>Materials, Supplies and Services</b>	<b>593,671</b>	<b>2,771,075</b>	<b>2,762,975</b>	<b>2,658,000</b>	<b>(104,975)</b>
<b>Total Technical &amp; Operational Support Branch</b>	<b>1,439,964</b>	<b>4,306,975</b>	<b>4,142,975</b>	<b>3,772,800</b>	<b>(370,175)</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	241,284	337,700	334,700	277,000	(57,700)
4120 - Overtime	4,818	5,000	5,000	5,000	0
4130 - Miscellaneous (Payroll)	16,092	10,000	10,000	10,000	0
<b>Personnel Services</b>	<b>262,194</b>	<b>352,700</b>	<b>349,700</b>	<b>292,000</b>	<b>(57,700)</b>
1110 - Materials & Supplies (Storeroom)	1,652,280	1,600,000	2,200,000	2,420,000	220,000
4160 - Meals; Mileage & Uniform Allowances	1,967	4,000	4,000	4,000	0
4250 - Other Contractual Services	0	0	0	75,000	75,000
4420 - Hauling Charges	(2,000)	160,000	50,000	50,000	0
4460 - Other Materials & Supplies	210,022	770,000	250,000	250,000	0
4923 - Store Materials & Expense	922,418	750,000	750,000	800,000	50,000
<b>Materials, Supplies and Services</b>	<b>2,784,687</b>	<b>3,284,000</b>	<b>3,254,000</b>	<b>3,599,000</b>	<b>345,000</b>
<b>Total Technical &amp; Operational Support Branch</b>	<b>3,046,881</b>	<b>3,636,700</b>	<b>3,603,700</b>	<b>3,891,000</b>	<b>287,300</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 the Beretania Complex buildings and corporation yards.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	238,992	228,600	235,500	259,000	23,500
4120 - Overtime	31,139	40,000	40,000	40,000	0
4130 - Miscellaneous (Payroll)	9,570	64,800	64,800	32,400	(32,400)
<b>Personnel Services</b>	<b>279,700</b>	<b>333,400</b>	<b>340,300</b>	<b>331,400</b>	<b>(8,900)</b>
4160 - Meals; Mileage & Uniform Allowances	958	0	0	1,000	1,000
<b>Materials, Supplies and Services</b>	<b>958</b>	<b>0</b>	<b>0</b>	<b>1,000</b>	<b>1,000</b>
<b>Total Maintenance Support Branch</b>	<b>280,658</b>	<b>333,400</b>	<b>340,300</b>	<b>332,400</b>	<b>(7,900)</b>

**Budget Highlights**

**Board of Water Supply  
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**FO - Field Operations**

**5522 - Grounds Section**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,676,314	1,993,000	1,998,700	1,942,200	(56,500)
4120 - Overtime	4,845	50,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	93,394	70,000	70,000	70,000	0
<b>Personnel Services</b>	<b>1,774,553</b>	<b>2,113,000</b>	<b>2,118,700</b>	<b>2,062,200</b>	<b>(56,500)</b>
4160 - Meals; Mileage & Uniform Allowances	3,210	6,000	6,000	6,000	0
4250 - Other Contractual Services	426,266	1,000,000	1,000,000	1,925,000	925,000
4460 - Other Materials & Supplies	28,460	40,000	40,000	40,000	0
4815 - Repair & Maint - Equipment	115	5,000	5,000	5,000	0
8050 - Equipment (under \$5,000)	10,093	12,800	11,100	19,150	8,050
<b>Materials, Supplies and Services</b>	<b>468,143</b>	<b>1,063,800</b>	<b>1,062,100</b>	<b>1,995,150</b>	<b>933,050</b>
<b>Total Maintenance Support Branch</b>	<b>2,242,695</b>	<b>3,176,800</b>	<b>3,180,800</b>	<b>4,057,350</b>	<b>876,550</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	388,327	446,900	454,800	454,800	0
4120 - Overtime	33,078	30,000	30,000	20,000	(10,000)
4130 - Miscellaneous (Payroll)	5,594	10,000	10,000	10,000	0
<b>Personnel Services</b>	<b>426,999</b>	<b>486,900</b>	<b>494,800</b>	<b>484,800</b>	<b>(10,000)</b>
4160 - Meals; Mileage & Uniform Allowances	6,802	0	5,000	5,000	0
4250 - Other Contractual Services	2,111	13,000	13,000	10,000	(3,000)
4460 - Other Materials & Supplies	11,494	8,000	12,000	12,000	0
4805 - Repair & Maint - Structures	0	10,000	10,000	10,000	0
8050 - Equipment (under \$5,000)	3,330	3,180	5,000	0	(5,000)
<b>Materials, Supplies and Services</b>	<b>23,737</b>	<b>34,180</b>	<b>45,000</b>	<b>37,000</b>	<b>(8,000)</b>
<b>Total Maintenance Support Branch</b>	<b>450,736</b>	<b>521,080</b>	<b>539,800</b>	<b>521,800</b>	<b>(18,000)</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	3,565,967	4,526,900	4,812,400	4,699,000	(113,400)
4120 - Overtime	955,459	1,000,000	1,000,000	1,000,000	0
4130 - Miscellaneous (Payroll)	205,443	358,400	368,000	365,600	(2,400)
<b>Personnel Services</b>	<b>4,726,869</b>	<b>5,885,300</b>	<b>6,180,400</b>	<b>6,064,600</b>	<b>(115,800)</b>
4160 - Meals; Mileage & Uniform Allowances	46,088	50,000	50,000	50,000	0
4250 - Other Contractual Services	77,511	177,000	177,000	202,000	25,000
4280 - Refuse Collection & Disposal	72,884	0	0	0	0
4430 - Miscellaneous Supplies	2,593	6,000	6,000	6,000	0
4460 - Other Materials & Supplies	133,591	90,000	90,000	90,000	0
4480 - Postage	8	0	0	0	0
4805 - Repair & Maint - Structures	1,046	50,000	50,000	50,000	0
4815 - Repair & Maint - Equipment	5,768	15,000	15,000	15,000	0
8050 - Equipment (under \$5,000)	27,984	55,600	24,950	43,300	18,350
<b>Materials, Supplies and Services</b>	<b>367,473</b>	<b>443,600</b>	<b>412,950</b>	<b>456,300</b>	<b>43,350</b>
E 1270 - General Plant & Equip (over \$5,000)	0	20,000	0	0	0
<b>Equipment</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Metropolitan Field Services District</b>	<b>5,094,342</b>	<b>6,348,900</b>	<b>6,593,350</b>	<b>6,520,900</b>	<b>(72,450)</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	85,184	102,600	102,700	105,400	2,700
4120 - Overtime	2,082	0	0	0	0
4130 - Miscellaneous (Payroll)	5,600	0	0	2,400	2,400
<b>Personnel Services</b>	<b>92,866</b>	<b>102,600</b>	<b>102,700</b>	<b>107,800</b>	<b>5,100</b>
4160 - Meals; Mileage & Uniform Allowances	134	0	0	0	0
4250 - Other Contractual Services	2,226	1,000	1,000	0	(1,000)
4430 - Miscellaneous Supplies	3,520	4,000	4,000	4,000	0
4460 - Other Materials & Supplies	346	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>6,225</b>	<b>5,000</b>	<b>5,000</b>	<b>4,000</b>	<b>(1,000)</b>
1270 - General Plant & Equip (over \$5,000)	0	20,000	0	0	0
<b>Equipment</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Administration Section</b>	<b>99,091</b>	<b>127,600</b>	<b>107,700</b>	<b>111,800</b>	<b>4,100</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,304,215	1,810,400	1,972,700	1,982,400	9,700
4120 - Overtime	437,718	500,000	500,000	500,000	0
4130 - Miscellaneous (Payroll)	52,770	142,600	159,400	164,200	4,800
<b>Personnel Services</b>	<b>1,794,703</b>	<b>2,453,000</b>	<b>2,632,100</b>	<b>2,646,600</b>	<b>14,500</b>
4160 - Meals; Mileage & Uniform Allowances	19,220	20,000	20,000	20,000	0
4250 - Other Contractual Services	1,175	15,000	15,000	15,000	0
4460 - Other Materials & Supplies	56,501	60,000	60,000	60,000	0
4815 - Repair & Maint - Equipment	2,864	5,000	5,000	5,000	0
8050 - Equipment (under \$5,000)	15,106	55,450	18,950	20,100	1,150
<b>Materials, Supplies and Services</b>	<b>94,866</b>	<b>155,450</b>	<b>118,950</b>	<b>120,100</b>	<b>1,150</b>
E 1270 - General Plant & Equip (over \$5,000)	0	0	0	9,000	9,000
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,000</b>	<b>9,000</b>
<b>Total Administration Section</b>	<b>1,889,569</b>	<b>2,608,450</b>	<b>2,751,050</b>	<b>2,775,700</b>	<b>24,650</b>

**Budget Highlights**

**Board of Water Supply  
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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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	407,453	701,400	760,500	662,500	(98,000)
4120 - Overtime	107,788	160,000	160,000	160,000	0
4130 - Miscellaneous (Payroll)	12,798	56,600	79,000	81,400	2,400
<b>Personnel Services</b>	<b>528,039</b>	<b>918,000</b>	<b>999,500</b>	<b>903,900</b>	<b>(95,600)</b>
4160 - Meals; Mileage & Uniform Allowances	4,533	11,000	11,000	11,000	0
4460 - Other Materials & Supplies	5,759	12,000	12,000	12,000	0
4815 - Repair & Maint - Equipment	7,085	3,000	3,000	3,000	0
8050 - Equipment (under \$5,000)	2,625	3,800	8,600	5,490	(3,110)
<b>Materials, Supplies and Services</b>	<b>20,002</b>	<b>29,800</b>	<b>34,600</b>	<b>31,490</b>	<b>(3,110)</b>
1270 - General Plant & Equip (over \$5,000)	0	0	8,000	11,500	3,500
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>8,000</b>	<b>11,500</b>	<b>3,500</b>
<b>Total Administration Section</b>	<b>548,041</b>	<b>947,800</b>	<b>1,042,100</b>	<b>946,890</b>	<b>(95,210)</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	809,959	796,800	836,000	869,400	33,400
4120 - Overtime	220,654	360,000	360,000	360,000	0
4130 - Miscellaneous (Payroll)	33,034	73,800	73,800	76,200	2,400
<b>Personnel Services</b>	<b>1,063,647</b>	<b>1,230,600</b>	<b>1,269,800</b>	<b>1,305,600</b>	<b>35,800</b>
4160 - Meals; Mileage & Uniform Allowances	11,404	17,000	17,000	15,000	(2,000)
4460 - Other Materials & Supplies	5,040	7,000	7,000	7,000	0
4815 - Repair & Maint - Equipment	2,376	2,500	2,500	2,500	0
8050 - Equipment (under \$5,000)	6,056	19,410	0	9,300	9,300
<b>Materials, Supplies and Services</b>	<b>24,877</b>	<b>45,910</b>	<b>26,500</b>	<b>33,800</b>	<b>7,300</b>
1270 - General Plant & Equip (over \$5,000)	0	0	0	9,000	9,000
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,000</b>	<b>9,000</b>
<b>Total Administration Section</b>	<b>1,088,524</b>	<b>1,276,510</b>	<b>1,296,300</b>	<b>1,348,400</b>	<b>52,100</b>

**Budget Highlights**

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**FO - Field Operations**

**5560 - Windward Section**

**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,493,347	1,556,100	1,766,700	1,707,700	(59,000)
4120 - Overtime	297,565	250,000	250,000	250,000	0
4130 - Miscellaneous (Payroll)	47,201	117,600	132,400	112,400	(20,000)
<b>Personnel Services</b>	<b>1,838,113</b>	<b>1,923,700</b>	<b>2,149,100</b>	<b>2,070,100</b>	<b>(79,000)</b>
4160 - Meals; Mileage & Uniform Allowances	15,249	12,000	12,000	12,000	0
4250 - Other Contractual Services	2,876	6,000	6,000	6,000	0
4430 - Miscellaneous Supplies	116	0	0	0	0
4460 - Other Materials & Supplies	68,970	14,000	14,000	15,000	1,000
4815 - Repair & Maint - Equipment	0	2,500	2,500	2,500	0
4910 - Miscellaneous Fees & Registration	40	0	0	0	0
8050 - Equipment (under \$5,000)	13,995	14,500	34,000	20,400	(13,600)
<b>Materials, Supplies and Services</b>	<b>101,246</b>	<b>49,000</b>	<b>68,500</b>	<b>55,900</b>	<b>(12,600)</b>
E 1270 - General Plant & Equip (over \$5,000)	46,989	0	0	0	0
<b>Equipment</b>	<b>46,989</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Administration Section</b>	<b>1,986,348</b>	<b>1,972,700</b>	<b>2,217,600</b>	<b>2,126,000</b>	<b>(91,600)</b>

**Budget Highlights**

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**FO - Field Operations**

**5530 - Construction**

**Section's Activity**

A reorganization transferred this program to the Capital Projects Division (see page OP-49)

<b>Account</b>	<b>FY2021 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>	<b>Change</b>
M 4460 - Other Materials & Supplies	323	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>323</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Construction</b>	<b>323</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Budget Highlights**

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**Board of Water Supply  
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**CP - Capital Projects**

**Division/Office's Activity**

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

<b>Account</b>	<b>FY2021 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>	<b>Change</b>
PC 4110 - Salaries & Wages	4,697,576	4,924,500	5,335,600	5,642,500	306,900
4120 - Overtime	454,876	464,000	444,000	444,000	0
4130 - Miscellaneous (Payroll)	127,933	27,800	273,300	271,300	(2,000)
<b>Personnel Services</b>	<b>5,280,386</b>	<b>5,416,300</b>	<b>6,052,900</b>	<b>6,357,800</b>	<b>304,900</b>
4160 - Meals; Mileage & Uniform Allowances	12,766	17,200	16,900	16,900	0
4250 - Other Contractual Services	468,292	445,200	439,200	472,200	33,000
4260 - Advertising & Publication of Notices	1,455	3,000	3,000	3,000	0
4270 - Professional Services	1,644,064	1,500,000	1,500,000	2,000,000	500,000
4430 - Miscellaneous Supplies	4,932	4,000	4,000	4,000	0
4460 - Other Materials & Supplies	6,911	35,800	35,200	32,000	(3,200)
4500 - Education and Training	8,697	33,300	53,300	47,700	(5,600)
4720 - Conference Travel & Expenses	0	0	0	5,600	5,600
4815 - Repair & Maint - Equipment	270	5,300	5,300	5,000	(300)
4910 - Miscellaneous Fees & Registration	204	400	400	2,600	2,200
8050 - Equipment (under \$5,000)	0	0	2,000	0	(2,000)
<b>Materials, Supplies and Services</b>	<b>2,147,591</b>	<b>2,044,200</b>	<b>2,059,300</b>	<b>2,589,000</b>	<b>529,700</b>
E 1270 - General Plant & Equip (over \$5,000)	319,520	250,000	250,000	250,000	0
<b>Equipment</b>	<b>319,520</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>0</b>
<b>Total CP - Capital Projects</b>	<b>7,747,497</b>	<b>7,710,500</b>	<b>8,362,200</b>	<b>9,196,800</b>	<b>834,600</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	520,807	531,000	547,700	568,100	20,400
4120 - Overtime	61,747	50,000	40,000	40,000	0
4130 - Miscellaneous (Payroll)	14,200	300	300	300	0
<b>Personnel Services</b>	<b>596,754</b>	<b>581,300</b>	<b>588,000</b>	<b>608,400</b>	<b>20,400</b>
4160 - Meals; Mileage & Uniform Allowances	750	500	500	500	0
4250 - Other Contractual Services	14,219	119,200	134,200	164,200	30,000
4260 - Advertising & Publication of Notices	1,455	3,000	3,000	3,000	0
4270 - Professional Services	1,644,064	1,500,000	1,500,000	2,000,000	500,000
4430 - Miscellaneous Supplies	4,302	2,500	2,500	2,500	0
4460 - Other Materials & Supplies	2,363	23,500	23,500	23,500	0
4500 - Education and Training	7,749	0	20,000	17,000	(3,000)
4720 - Conference Travel & Expenses	0	0	0	1,600	1,600
4815 - Repair & Maint - Equipment	270	1,000	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	204	200	200	200	0
<b>Materials, Supplies and Services</b>	<b>1,675,375</b>	<b>1,649,900</b>	<b>1,684,900</b>	<b>2,213,500</b>	<b>528,600</b>
1270 - General Plant & Equip (over \$5,000)	319,520	250,000	250,000	250,000	0
<b>Equipment</b>	<b>319,520</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>0</b>
<b>Total Administration</b>	<b>2,591,649</b>	<b>2,481,200</b>	<b>2,522,900</b>	<b>3,071,900</b>	<b>549,000</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.

<b>Account</b>	<b>FY2021 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>	<b>Change</b>
PC 4110 - Salaries & Wages	912,460	952,500	1,065,200	1,103,400	38,200
4120 - Overtime	37,867	50,000	40,000	40,000	0
4130 - Miscellaneous (Payroll)	1,500	0	0	8,000	8,000
<b>Personnel Services</b>	<b>951,826</b>	<b>1,002,500</b>	<b>1,105,200</b>	<b>1,151,400</b>	<b>46,200</b>
4160 - Meals; Mileage & Uniform Allowances	36	200	200	200	0
4430 - Miscellaneous Supplies	0	1,000	1,000	1,000	0
4500 - Education and Training	0	4,000	4,000	4,000	0
4720 - Conference Travel & Expenses	0	0	0	4,000	4,000
<b>Materials, Supplies and Services</b>	<b>36</b>	<b>5,200</b>	<b>5,200</b>	<b>9,200</b>	<b>4,000</b>
<b>Total Design &amp; Plans Review</b>	<b>951,862</b>	<b>1,007,700</b>	<b>1,110,400</b>	<b>1,160,600</b>	<b>50,200</b>

**Budget Highlights**



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**CP - Capital Projects**

**5575 - Construction**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	2,041,359	2,173,600	2,383,000	2,559,700	176,700
4120 - Overtime	321,970	350,000	350,000	350,000	0
4130 - Miscellaneous (Payroll)	100,083	0	250,000	250,000	0
<b>Personnel Services</b>	<b>2,463,413</b>	<b>2,523,600</b>	<b>2,983,000</b>	<b>3,159,700</b>	<b>176,700</b>
4160 - Meals; Mileage & Uniform Allowances	11,286	16,000	16,000	16,000	0
4250 - Other Contractual Services	32,252	30,000	30,000	30,000	0
4430 - Miscellaneous Supplies	0	500	500	500	0
4460 - Other Materials & Supplies	1,992	4,000	4,000	3,000	(1,000)
4500 - Education and Training	200	22,000	22,000	18,900	(3,100)
4910 - Miscellaneous Fees & Registration	0	200	200	200	0
8050 - Equipment (under \$5,000)	0	0	1,500	0	(1,500)
<b>Materials, Supplies and Services</b>	<b>45,730</b>	<b>72,700</b>	<b>74,200</b>	<b>68,600</b>	<b>(5,600)</b>
<b>Total Construction</b>	<b>2,509,142</b>	<b>2,596,300</b>	<b>3,057,200</b>	<b>3,228,300</b>	<b>171,100</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; coordinates and secures all necessary project approvals, permits, and clearances for the department's facility repair and replacement construction projects; develops and implements programs for facility renovations, asset replacement, and fire protection improvement; provides technical research, assistance, expertise, and advice throughout the department; develops and maintains the department's water system standards; and conducts research and product trials to evaluate new materials and equipment.

<b>Account</b>	<b>FY2021 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>	<b>Change</b>
4110 - Salaries & Wages	597,260	674,400	684,300	718,600	34,300
4120 - Overtime	20,085	4,000	4,000	4,000	0
4130 - Miscellaneous (Payroll)	12,150	8,500	4,000	9,000	5,000
<b>Personnel Services</b>	<b>629,496</b>	<b>686,900</b>	<b>692,300</b>	<b>731,600</b>	<b>39,300</b>
4160 - Meals; Mileage & Uniform Allowances	324	100	100	100	0
4250 - Other Contractual Services	5,150	21,000	0	3,000	3,000
4430 - Miscellaneous Supplies	630	0	0	0	0
4460 - Other Materials & Supplies	357	3,600	3,000	3,000	0
4500 - Education and Training	0	5,700	5,700	6,200	500
4815 - Repair & Maint - Equipment	0	4,300	4,300	4,000	(300)
8050 - Equipment (under \$5,000)	0	0	500	0	(500)
<b>Materials, Supplies and Services</b>	<b>6,461</b>	<b>34,700</b>	<b>13,600</b>	<b>16,300</b>	<b>2,700</b>
<b>Total Support</b>	<b>635,956</b>	<b>721,600</b>	<b>705,900</b>	<b>747,900</b>	<b>42,000</b>

**Budget Highlights**

**Board of Water Supply  
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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; coordinates and secures all necessary project approvals, permits, and clearances for the construction of electrical and mechanical system installations and pump and motor repairs, renewals, and replacement work in accordance with the department's requirements; provides technical assistance and conducts field inspections, troubleshooting, pilot testing, and final acceptance inspections of mechanical and electrical components; monitors, evaluates, incorporates, and optimizes the BWS equipment standards; and provides technical assistance, expertise, and advice on daily operation of pump and power facilities, equipment renewal and upgrade programs, continuity of service, and maintenance.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	625,691	593,000	655,400	692,700	37,300
4120 - Overtime	13,207	10,000	10,000	10,000	0
4130 - Miscellaneous (Payroll)	0	19,000	19,000	4,000	(15,000)
<b>Personnel Services</b>	<b>638,898</b>	<b>622,000</b>	<b>684,400</b>	<b>706,700</b>	<b>22,300</b>
4160 - Meals; Mileage & Uniform Allowances	370	400	100	100	0
4250 - Other Contractual Services	416,671	275,000	275,000	275,000	0
4460 - Other Materials & Supplies	2,200	4,700	4,700	2,500	(2,200)
4500 - Education and Training	749	1,600	1,600	1,600	0
4910 - Miscellaneous Fees & Registration	0	0	0	2,200	2,200
<b>Materials, Supplies and Services</b>	<b>419,990</b>	<b>281,700</b>	<b>281,400</b>	<b>281,400</b>	<b>0</b>
<b>Total Mechanical and Electrical</b>	<b>1,058,887</b>	<b>903,700</b>	<b>965,800</b>	<b>988,100</b>	<b>22,300</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.

<b>Account</b>	<b>FY2021 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>	<b>Change</b>
4110 - Salaries & Wages	5,123,341	6,591,000	6,196,400	6,448,800	252,400
4120 - Overtime	894,821	673,000	843,000	826,000	(17,000)
4130 - Miscellaneous (Payroll)	66,022	150,000	55,800	72,300	16,500
<b>Personnel Services</b>	<b>6,084,183</b>	<b>7,414,000</b>	<b>7,095,200</b>	<b>7,347,100</b>	<b>251,900</b>
4160 - Meals; Mileage & Uniform Allowances	38,992	39,800	40,700	40,700	0
4250 - Other Contractual Services	586,878	608,800	707,800	1,077,900	370,100
4251 - Software Licenses and Maintenance	13,770	33,100	33,100	30,100	(3,000)
4267 - Printed forms	0	300	300	300	0
4270 - Professional Services	0	500,000	1,000,000	250,000	(750,000)
4410 - Gasoline	599,711	803,200	803,200	883,520	80,320
4430 - Miscellaneous Supplies	4,707	7,600	7,600	8,000	400
4440 - Motor Vehicle Parts & Accessories	372,142	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	1,882,685	2,843,000	2,816,800	3,250,550	433,750
4470 - Parts and Accessories	860,866	546,800	600,000	627,000	27,000
4500 - Education and Training	8,812	50,600	45,250	44,175	(1,075)
4670 - Telemetry	212,419	210,000	200,000	220,000	20,000
4720 - Conference Travel & Expenses	0	22,100	12,200	4,400	(7,800)
4805 - Repair & Maint - Structures	10,612	44,000	54,000	54,000	0
4815 - Repair & Maint - Equipment	852,698	839,600	1,022,200	1,256,400	234,200
4910 - Miscellaneous Fees & Registration	3,152	14,600	5,500	7,700	2,200
8050 - Equipment (under \$5,000)	202,021	289,000	382,050	406,830	24,780
<b>Materials, Supplies and Services</b>	<b>5,649,466</b>	<b>7,304,500</b>	<b>8,182,700</b>	<b>8,613,575</b>	<b>430,875</b>
1270 - General Plant & Equip (over \$5,000)	3,455,325	5,729,300	3,897,700	3,857,600	(40,100)
<b>Equipment</b>	<b>3,455,325</b>	<b>5,729,300</b>	<b>3,897,700</b>	<b>3,857,600</b>	<b>(40,100)</b>
<b>Total WSO - Water System Operations</b>	<b>15,188,973</b>	<b>20,447,800</b>	<b>19,175,600</b>	<b>19,818,275</b>	<b>642,675</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	375,352	445,700	496,100	473,800	(22,300)
4120 - Overtime	72,335	40,000	40,000	20,000	(20,000)
4130 - Miscellaneous (Payroll)	12,712	600	600	600	0
<b>Personnel Services</b>	<b>460,399</b>	<b>486,300</b>	<b>536,700</b>	<b>494,400</b>	<b>(42,300)</b>
4160 - Meals; Mileage & Uniform Allowances	1,154	800	900	900	0
4250 - Other Contractual Services	13,110	32,000	32,000	312,000	280,000
4251 - Software Licenses and Maintenance	13,770	0	0	0	0
4270 - Professional Services	0	500,000	1,000,000	250,000	(750,000)
4430 - Miscellaneous Supplies	3,044	6,000	6,000	5,000	(1,000)
4460 - Other Materials & Supplies	4,264	0	0	0	0
4500 - Education and Training	0	1,500	1,700	825	(875)
4720 - Conference Travel & Expenses	0	6,500	2,500	400	(2,100)
4815 - Repair & Maint - Equipment	6,940	0	0	0	0
4910 - Miscellaneous Fees & Registration	1,840	4,500	1,000	1,000	0
<b>Materials, Supplies and Services</b>	<b>44,122</b>	<b>551,300</b>	<b>1,044,100</b>	<b>570,125</b>	<b>(473,975)</b>
1270 - General Plant & Equip (over \$5,000)	16,686	0	0	0	0
<b>Equipment</b>	<b>16,686</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Operations Administration</b>	<b>521,207</b>	<b>1,037,600</b>	<b>1,580,800</b>	<b>1,064,525</b>	<b>(516,275)</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	110,838	308,800	193,400	213,900	20,500
4120 - Overtime	0	20,000	35,000	50,000	15,000
4130 - Miscellaneous (Payroll)	7,859	1,200	1,200	1,200	0
<b>Personnel Services</b>	<b>118,697</b>	<b>330,000</b>	<b>229,600</b>	<b>265,100</b>	<b>35,500</b>
4160 - Meals; Mileage & Uniform Allowances	718	1,000	1,800	1,000	(800)
4250 - Other Contractual Services	26,304	0	0	4,000	4,000
4251 - Software Licenses and Maintenance	0	28,000	28,000	25,000	(3,000)
4430 - Miscellaneous Supplies	38	1,000	1,000	2,000	1,000
4460 - Other Materials & Supplies	1,654,824	2,600,000	2,585,400	3,050,000	464,600
4470 - Parts and Accessories	25,717	0	0	15,000	15,000
4500 - Education and Training	5,236	5,450	3,050	4,000	950
4720 - Conference Travel & Expenses	0	3,000	900	400	(500)
4805 - Repair & Maint - Structures	10,612	40,000	50,000	50,000	0
4815 - Repair & Maint - Equipment	748,992	574,600	783,200	866,000	82,800
4910 - Miscellaneous Fees & Registration	40	7,200	1,600	3,800	2,200
8050 - Equipment (under \$5,000)	47,087	2,000	8,000	4,000	(4,000)
<b>Materials, Supplies and Services</b>	<b>2,519,567</b>	<b>3,262,250</b>	<b>3,462,950</b>	<b>4,025,200</b>	<b>562,250</b>
1270 - General Plant & Equip (over \$5,000)	0	3,200	0	0	0
<b>Equipment</b>	<b>0</b>	<b>3,200</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Plant Operations</b>	<b>2,638,264</b>	<b>3,595,450</b>	<b>3,692,550</b>	<b>4,290,300</b>	<b>597,750</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	472,560	672,300	507,600	740,800	233,200
4120 - Overtime	131,570	120,000	120,000	120,000	0
4130 - Miscellaneous (Payroll)	4,800	21,000	3,000	4,500	1,500
<b>Personnel Services</b>	<b>608,930</b>	<b>813,300</b>	<b>630,600</b>	<b>865,300</b>	<b>234,700</b>
4160 - Meals; Mileage & Uniform Allowances	5,190	7,000	7,000	7,000	0
4460 - Other Materials & Supplies	15,819	19,200	18,800	23,800	5,000
4470 - Parts and Accessories	156,708	100,600	89,000	105,000	16,000
4500 - Education and Training	0	4,200	3,500	3,500	0
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	0	12,000	12,000	12,000	0
4910 - Miscellaneous Fees & Registration	89	0	0	0	0
8050 - Equipment (under \$5,000)	41,878	25,500	31,500	48,500	17,000
<b>Materials, Supplies and Services</b>	<b>219,684</b>	<b>170,000</b>	<b>162,700</b>	<b>200,200</b>	<b>37,500</b>
1270 - General Plant & Equip (over \$5,000)	13,415	0	0	0	0
<b>Equipment</b>	<b>13,415</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total District 1 Leeward West Section</b>	<b>842,029</b>	<b>983,300</b>	<b>793,300</b>	<b>1,065,500</b>	<b>272,200</b>

**Budget Highlights**

**Board of Water Supply  
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**WSO - Water System Operations**

**5612 - District 2 Central/Windward Section**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	701,070	796,500	705,400	725,200	19,800
4120 - Overtime	282,540	120,000	200,000	210,000	10,000
4130 - Miscellaneous (Payroll)	2,000	7,200	6,000	6,000	0
<b>Personnel Services</b>	<b>985,610</b>	<b>923,700</b>	<b>911,400</b>	<b>941,200</b>	<b>29,800</b>
4160 - Meals; Mileage & Uniform Allowances	13,188	8,400	8,400	8,400	0
4460 - Other Materials & Supplies	15,521	35,600	31,300	27,000	(4,300)
4470 - Parts and Accessories	183,376	90,000	88,000	91,000	3,000
4500 - Education and Training	0	3,500	3,500	3,500	0
4670 - Telemetry	1,052	0	0	0	0
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	0	12,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	34,841	50,000	31,500	67,000	35,500
<b>Materials, Supplies and Services</b>	<b>247,978</b>	<b>201,000</b>	<b>175,600</b>	<b>209,300</b>	<b>33,700</b>
1270 - General Plant & Equip (over \$5,000)	29,445	0	0	0	0
<b>Equipment</b>	<b>29,445</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total District 2 Central/Windward Section</b>	<b>1,263,034</b>	<b>1,124,700</b>	<b>1,087,000</b>	<b>1,150,500</b>	<b>63,500</b>

**Budget Highlights**



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**WSO - Water System Operations**

**5613 - District 3 Metropolitan Section**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	485,474	660,700	710,100	667,700	(42,400)
4120 - Overtime	166,066	120,000	200,000	170,000	(30,000)
4130 - Miscellaneous (Payroll)	2,899	6,000	6,000	6,000	0
<b>Personnel Services</b>	<b>654,438</b>	<b>786,700</b>	<b>916,100</b>	<b>843,700</b>	<b>(72,400)</b>
4160 - Meals; Mileage & Uniform Allowances	6,614	6,500	6,500	6,500	0
4460 - Other Materials & Supplies	17,389	23,700	18,000	11,000	(7,000)
4470 - Parts and Accessories	173,228	107,000	120,000	119,000	(1,000)
4500 - Education and Training	700	4,200	3,500	3,500	0
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	2,877	18,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	22,146	31,000	41,500	46,300	4,800
<b>Materials, Supplies and Services</b>	<b>222,953</b>	<b>191,900</b>	<b>202,400</b>	<b>198,700</b>	<b>(3,700)</b>
E 1270 - General Plant & Equip (over \$5,000)	18,725	10,000	10,000	55,000	45,000
<b>Equipment</b>	<b>18,725</b>	<b>10,000</b>	<b>10,000</b>	<b>55,000</b>	<b>45,000</b>
<b>Total District 3 Metropolitan Section</b>	<b>896,116</b>	<b>988,600</b>	<b>1,128,500</b>	<b>1,097,400</b>	<b>(31,100)</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4110 - Salaries & Wages	521,370	785,100	715,300	724,300	9,000
4120 - Overtime	54,658	65,000	60,000	60,000	0
4130 - Miscellaneous (Payroll)	2,000	6,000	5,000	5,000	0
<b>Personnel Services</b>	<b>578,028</b>	<b>856,100</b>	<b>780,300</b>	<b>789,300</b>	<b>9,000</b>
4160 - Meals; Mileage & Uniform Allowances	3,448	5,500	5,500	5,500	0
4460 - Other Materials & Supplies	59,663	22,500	22,300	15,600	(6,700)
4470 - Parts and Accessories	103,139	87,200	93,000	98,000	5,000
4500 - Education and Training	285	4,200	3,500	3,500	0
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	24,885	2,000	12,000	12,000	0
8050 - Equipment (under \$5,000)	7,138	25,300	68,500	84,500	16,000
<b>Materials, Supplies and Services</b>	<b>198,559</b>	<b>148,200</b>	<b>205,700</b>	<b>219,500</b>	<b>13,800</b>
<b>Total District 4 Leeward East Section</b>	<b>776,587</b>	<b>1,004,300</b>	<b>986,000</b>	<b>1,008,800</b>	<b>22,800</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 and is responsible for maintaining proper system pressure and levels to meet the needs of our customers. Due to its round-the-clock operation, the Control Center has the responsibility of being the point of contact for the public outside of BWS regular working hours.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	611,320	709,200	691,700	760,600	68,900
4120 - Overtime	143,777	130,000	130,000	140,000	10,000
4130 - Miscellaneous (Payroll)	8,000	4,000	4,000	19,000	15,000
<b>Personnel Services</b>	<b>763,097</b>	<b>843,200</b>	<b>825,700</b>	<b>919,600</b>	<b>93,900</b>
4160 - Meals; Mileage & Uniform Allowances	6,532	6,000	6,000	6,000	0
4430 - Miscellaneous Supplies	313	0	0	0	0
4470 - Parts and Accessories	153	0	0	0	0
4500 - Education and Training	666	4,900	4,900	4,900	0
4720 - Conference Travel & Expenses	0	2,000	1,800	800	(1,000)
8050 - Equipment (under \$5,000)	2,726	3,000	2,500	4,400	1,900
<b>Materials, Supplies and Services</b>	<b>10,389</b>	<b>15,900</b>	<b>15,200</b>	<b>16,100</b>	<b>900</b>
<b>Total Control Center</b>	<b>773,486</b>	<b>859,100</b>	<b>840,900</b>	<b>935,700</b>	<b>94,800</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.

<b>Account</b>	<b>FY2021 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>	<b>Change</b>
4110 - Salaries & Wages	391,280	463,400	393,500	433,200	39,700
4120 - Overtime	12,997	24,000	24,000	24,000	0
4130 - Miscellaneous (Payroll)	2,000	6,000	6,000	6,000	0
<b>Personnel Services</b>	<b>406,277</b>	<b>493,400</b>	<b>423,500</b>	<b>463,200</b>	<b>39,700</b>
4160 - Meals; Mileage & Uniform Allowances	1,282	2,000	2,000	3,000	1,000
4250 - Other Contractual Services	7,066	0	0	0	0
4460 - Other Materials & Supplies	8,268	26,000	26,000	10,000	(16,000)
4470 - Parts and Accessories	76,704	20,000	60,000	54,000	(6,000)
4500 - Education and Training	460	4,200	3,500	3,500	0
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	8,639	12,000	12,000	14,400	2,400
8050 - Equipment (under \$5,000)	37,520	22,500	22,000	54,000	32,000
<b>Materials, Supplies and Services</b>	<b>139,939</b>	<b>88,200</b>	<b>126,400</b>	<b>139,300</b>	<b>12,900</b>
1270 - General Plant & Equip (over \$5,000)	0	10,000	0	15,000	15,000
<b>Equipment</b>	<b>0</b>	<b>10,000</b>	<b>0</b>	<b>15,000</b>	<b>15,000</b>
<b>Total Technical Services</b>	<b>546,216</b>	<b>591,600</b>	<b>549,900</b>	<b>617,500</b>	<b>67,600</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	151,835	291,300	343,400	270,300	(73,100)
4120 - Overtime	3,972	16,000	16,000	12,000	(4,000)
4130 - Miscellaneous (Payroll)	4,300	2,000	2,000	2,000	0
<b>Personnel Services</b>	<b>160,108</b>	<b>309,300</b>	<b>361,400</b>	<b>284,300</b>	<b>(77,100)</b>
4160 - Meals; Mileage & Uniform Allowances	236	800	800	600	(200)
4250 - Other Contractual Services	47,734	137,000	116,000	63,000	(53,000)
4460 - Other Materials & Supplies	636	7,500	6,500	4,650	(1,850)
4470 - Parts and Accessories	77,697	72,000	80,000	75,000	(5,000)
4500 - Education and Training	0	2,450	2,100	1,750	(350)
4670 - Telemetry	211,367	210,000	200,000	220,000	20,000
4720 - Conference Travel & Expenses	0	1,500	900	400	(500)
4815 - Repair & Maint - Equipment	0	9,000	9,000	8,000	(1,000)
8050 - Equipment (under \$5,000)	0	113,500	153,400	81,500	(71,900)
<b>Materials, Supplies and Services</b>	<b>337,670</b>	<b>553,750</b>	<b>568,700</b>	<b>454,900</b>	<b>(113,800)</b>
E 1270 - General Plant & Equip (over \$5,000)	0	47,500	65,500	50,500	(15,000)
<b>Equipment</b>	<b>0</b>	<b>47,500</b>	<b>65,500</b>	<b>50,500</b>	<b>(15,000)</b>
<b>Total Telecommunications</b>	<b>497,778</b>	<b>910,550</b>	<b>995,600</b>	<b>789,700</b>	<b>(205,900)</b>

**Budget Highlights**

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**WSO - Water System Operations**

**5660 - Automotive**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	1,302,241	1,458,000	1,439,900	1,439,000	(900)
4120 - Overtime	26,907	18,000	18,000	20,000	2,000
4130 - Miscellaneous (Payroll)	19,452	96,000	22,000	22,000	0
<b>Personnel Services</b>	<b>1,348,600</b>	<b>1,572,000</b>	<b>1,479,900</b>	<b>1,481,000</b>	<b>1,100</b>
4160 - Meals; Mileage & Uniform Allowances	630	1,800	1,800	1,800	0
4250 - Other Contractual Services	93,284	179,800	179,800	298,900	119,100
4251 - Software Licenses and Maintenance	0	5,100	5,100	5,100	0
4267 - Printed forms	0	300	300	300	0
4410 - Gasoline	599,711	803,200	803,200	883,520	80,320
4430 - Miscellaneous Supplies	1,312	600	600	1,000	400
4440 - Motor Vehicle Parts & Accessories	372,142	452,000	452,000	452,000	0
4460 - Other Materials & Supplies	106,301	108,500	108,500	108,500	0
4470 - Parts and Accessories	64,143	70,000	70,000	70,000	0
4500 - Education and Training	1,466	16,000	16,000	15,200	(800)
4720 - Conference Travel & Expenses	0	1,600	1,600	400	(1,200)
4805 - Repair & Maint - Structures	0	4,000	4,000	4,000	0
4815 - Repair & Maint - Equipment	50,357	90,000	90,000	90,000	0
4910 - Miscellaneous Fees & Registration	1,183	2,900	2,900	2,900	0
8050 - Equipment (under \$5,000)	8,686	16,200	23,150	16,630	(6,520)
<b>Materials, Supplies and Services</b>	<b>1,299,216</b>	<b>1,752,000</b>	<b>1,758,950</b>	<b>1,950,250</b>	<b>191,300</b>
E 1270 - General Plant & Equip (over \$5,000)	3,377,053	5,658,600	3,822,200	3,737,100	(85,100)
<b>Equipment</b>	<b>3,377,053</b>	<b>5,658,600</b>	<b>3,822,200</b>	<b>3,737,100</b>	<b>(85,100)</b>
<b>Total Automotive</b>	<b>6,024,868</b>	<b>8,982,600</b>	<b>7,061,050</b>	<b>7,168,350</b>	<b>107,300</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 Kaka'ako. The use of cold seawater for building cooling conserves potable water and energy that would otherwise be used in conventional mechanical cooling systems.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
M 4250 - Other Contractual Services	399,380	260,000	380,000	400,000	20,000
4815 - Repair & Maint - Equipment	10,008	110,000	80,000	230,000	150,000
<b>Materials, Supplies and Services</b>	<b>409,388</b>	<b>370,000</b>	<b>460,000</b>	<b>630,000</b>	<b>170,000</b>
<b>Total Ocean Cooling</b>	<b>409,388</b>	<b>370,000</b>	<b>460,000</b>	<b>630,000</b>	<b>170,000</b>

**Budget Highlights**

**Board of Water Supply  
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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, and voice/video and call center systems.

<b>Account</b>	<b>FY2021 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>	<b>Change</b>
4110 - Salaries & Wages	3,571,732	3,936,500	3,902,900	4,011,800	108,900
4120 - Overtime	112,128	169,400	153,000	175,500	22,500
4130 - Miscellaneous (Payroll)	43,582	13,000	12,000	63,980	51,980
<b>Personnel Services</b>	<b>3,727,441</b>	<b>4,118,900</b>	<b>4,067,900</b>	<b>4,251,280</b>	<b>183,380</b>
4160 - Meals; Mileage & Uniform Allowances	740	4,500	1,900	1,800	(100)
4250 - Other Contractual Services	5,792,351	6,410,533	6,236,035	10,522,195	4,286,160
4251 - Software Licenses and Maintenance	2,189,326	2,529,351	2,872,204	3,572,176	699,972
4270 - Professional Services	0	0	100,000	0	(100,000)
4430 - Miscellaneous Supplies	2,397	3,700	2,700	2,200	(500)
4460 - Other Materials & Supplies	92,942	144,500	144,200	110,700	(33,500)
4470 - Parts and Accessories	19,919	15,000	14,000	12,000	(2,000)
4480 - Postage	688,877	410,100	550,100	730,100	180,000
4500 - Education and Training	25,398	50,750	26,955	41,680	14,725
4720 - Conference Travel & Expenses	1,054	29,700	1,700	1,700	0
4815 - Repair & Maint - Equipment	361,713	346,350	282,950	297,600	14,650
4910 - Miscellaneous Fees & Registration	123,546	126,700	127,100	156,600	29,500
8050 - Equipment (under \$5,000)	276,888	978,210	1,106,324	1,424,035	317,711
<b>Materials, Supplies and Services</b>	<b>9,575,152</b>	<b>11,049,394</b>	<b>11,466,168</b>	<b>16,872,786</b>	<b>5,406,618</b>
1270 - General Plant & Equip (over \$5,000)	423,571	335,000	295,000	790,000	495,000
<b>Equipment</b>	<b>423,571</b>	<b>335,000</b>	<b>295,000</b>	<b>790,000</b>	<b>495,000</b>
<b>Total IT - Information Technology</b>	<b>13,726,164</b>	<b>15,503,294</b>	<b>15,829,068</b>	<b>21,914,066</b>	<b>6,084,998</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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	460,210	422,000	440,000	532,000	92,000
4120 - Overtime	9,998	1,400	4,000	11,500	7,500
4130 - Miscellaneous (Payroll)	5,800	0	0	51,980	51,980
<b>Personnel Services</b>	<b>476,008</b>	<b>423,400</b>	<b>444,000</b>	<b>595,480</b>	<b>151,480</b>
4160 - Meals; Mileage & Uniform Allowances	290	400	400	300	(100)
4250 - Other Contractual Services	73,265	25,000	0	360,000	360,000
4251 - Software Licenses and Maintenance	835	0	0	230,000	230,000
4270 - Professional Services	0	0	100,000	0	(100,000)
4460 - Other Materials & Supplies	2,139	4,800	3,000	2,500	(500)
4500 - Education and Training	20,041	1,500	2,400	5,000	2,600
4720 - Conference Travel & Expenses	590	7,500	0	0	0
4910 - Miscellaneous Fees & Registration	61,473	68,200	75,100	98,100	23,000
8050 - Equipment (under \$5,000)	1,417	0	0	0	0
<b>Materials, Supplies and Services</b>	<b>160,050</b>	<b>107,400</b>	<b>180,900</b>	<b>695,900</b>	<b>515,000</b>
<b>Total IT Administration</b>	<b>636,059</b>	<b>530,800</b>	<b>624,900</b>	<b>1,291,380</b>	<b>666,480</b>

**Budget Highlights**

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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.

<b>Account</b>	<b>FY2021 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>	<b>Change</b>
PC 4110 - Salaries & Wages	907,169	1,077,600	1,078,600	1,096,400	17,800
4120 - Overtime	70,210	110,000	110,000	110,000	0
4130 - Miscellaneous (Payroll)	8,050	12,000	12,000	12,000	0
<b>Personnel Services</b>	<b>985,429</b>	<b>1,199,600</b>	<b>1,200,600</b>	<b>1,218,400</b>	<b>17,800</b>
4160 - Meals; Mileage & Uniform Allowances	78	3,600	1,500	1,500	0
4250 - Other Contractual Services	823,726	1,050,000	1,100,984	4,486,695	3,385,711
4251 - Software Licenses and Maintenance	960,138	1,257,291	1,354,614	1,615,626	261,012
4430 - Miscellaneous Supplies	0	1,200	1,200	1,200	0
4460 - Other Materials & Supplies	1,632	0	0	0	0
4500 - Education and Training	3,822	15,500	15,580	34,180	18,600
4720 - Conference Travel & Expenses	0	7,700	0	0	0
4910 - Miscellaneous Fees & Registration	0	26,000	26,000	26,000	0
<b>Materials, Supplies and Services</b>	<b>1,789,395</b>	<b>2,361,291</b>	<b>2,499,878</b>	<b>6,165,201</b>	<b>3,665,323</b>
<b>Total Application Systems Development</b>	<b>2,774,825</b>	<b>3,560,891</b>	<b>3,700,478</b>	<b>7,383,601</b>	<b>3,683,123</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 the BWS Geographic Information System and spacial database. TEP also manages and maintains the BWS hydraulic models for currency and accuracy, in conjunction with Water Resources.

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	896,187	867,800	932,900	891,700	(41,200)
4120 - Overtime	1,094	4,000	4,000	4,000	0
4130 - Miscellaneous (Payroll)	9,332	0	0	0	0
<b>Personnel Services</b>	<b>906,613</b>	<b>871,800</b>	<b>936,900</b>	<b>895,700</b>	<b>(41,200)</b>
4250 - Other Contractual Services	939,507	1,106,000	810,000	910,000	100,000
4251 - Software Licenses and Maintenance	303,798	332,300	420,500	402,500	(18,000)
4430 - Miscellaneous Supplies	17	500	500	500	0
4460 - Other Materials & Supplies	1,988	1,200	1,200	1,200	0
4480 - Postage	145	100	100	100	0
4500 - Education and Training	109	17,500	2,500	2,500	0
4720 - Conference Travel & Expenses	464	6,700	1,700	1,700	0
4815 - Repair & Maint - Equipment	3,551	4,600	4,600	6,500	1,900
4910 - Miscellaneous Fees & Registration	0	6,500	0	6,500	6,500
8050 - Equipment (under \$5,000)	6,839	10,500	2,000	7,500	5,500
<b>Materials, Supplies and Services</b>	<b>1,256,417</b>	<b>1,485,900</b>	<b>1,243,100</b>	<b>1,339,000</b>	<b>95,900</b>
1270 - General Plant & Equip (over \$5,000)	0	15,000	15,000	0	(15,000)
<b>Equipment</b>	<b>0</b>	<b>15,000</b>	<b>15,000</b>	<b>0</b>	<b>(15,000)</b>
<b>Total Technical Engineering Projects</b>	<b>2,163,029</b>	<b>2,372,700</b>	<b>2,195,000</b>	<b>2,234,700</b>	<b>39,700</b>

**Budget Highlights**

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**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, mobile devices, cloud based services, etc.

<b>Account</b>	<b>FY2021 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>	<b>Change</b>
PS 4110 - Salaries & Wages	1,308,165	1,569,100	1,451,400	1,491,700	40,300
4120 - Overtime	30,826	54,000	35,000	50,000	15,000
4130 - Miscellaneous (Payroll)	20,400	1,000	0	0	0
<b>Personnel Services</b>	<b>1,359,391</b>	<b>1,624,100</b>	<b>1,486,400</b>	<b>1,541,700</b>	<b>55,300</b>
4160 - Meals; Mileage & Uniform Allowances	372	500	0	0	0
4250 - Other Contractual Services	3,955,852	4,229,533	4,325,051	4,765,500	440,449
4251 - Software Licenses and Maintenance	924,556	939,760	1,097,090	1,324,050	226,960
4430 - Miscellaneous Supplies	2,381	2,000	1,000	500	(500)
4460 - Other Materials & Supplies	87,183	138,500	140,000	107,000	(33,000)
4470 - Parts and Accessories	19,919	15,000	14,000	12,000	(2,000)
4480 - Postage	688,732	410,000	550,000	730,000	180,000
4500 - Education and Training	1,426	16,250	6,475	0	(6,475)
4720 - Conference Travel & Expenses	0	7,800	0	0	0
4815 - Repair & Maint - Equipment	358,162	341,750	278,350	291,100	12,750
4910 - Miscellaneous Fees & Registration	62,073	26,000	26,000	26,000	0
8050 - Equipment (under \$5,000)	268,633	967,710	1,104,324	1,416,535	312,211
<b>Materials, Supplies and Services</b>	<b>6,369,289</b>	<b>7,094,803</b>	<b>7,542,290</b>	<b>8,672,685</b>	<b>1,130,395</b>
1270 - General Plant & Equip (over \$5,000)	423,571	320,000	280,000	790,000	510,000
<b>Equipment</b>	<b>423,571</b>	<b>320,000</b>	<b>280,000</b>	<b>790,000</b>	<b>510,000</b>
<b>Total Operations Support</b>	<b>8,152,251</b>	<b>9,038,903</b>	<b>9,308,690</b>	<b>11,004,385</b>	<b>1,695,695</b>

**Budget Highlights**

**Board of Water Supply  
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**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	2,392,900	2,493,200	2,301,600	2,335,200	33,600
4120 - Overtime	67,418	117,400	61,800	63,300	1,500
4130 - Miscellaneous (Payroll)	86,966	30,200	73,000	72,000	(1,000)
<b>Personnel Services</b>	<b>2,547,284</b>	<b>2,640,800</b>	<b>2,436,400</b>	<b>2,470,500</b>	<b>34,100</b>
4160 - Meals; Mileage & Uniform Allowances	4,260	12,500	5,200	5,500	300
4220 - Collection Fees	266	0	0	500	500
4250 - Other Contractual Services	13,105	13,100	16,800	10,000	(6,800)
4267 - Printed forms	501	0	0	0	0
4270 - Professional Services	986,308	1,151,500	1,369,600	1,021,600	(348,000)
4430 - Miscellaneous Supplies	9,695	15,000	15,000	15,000	0
4460 - Other Materials & Supplies	2,340	3,500	3,500	1,000	(2,500)
4500 - Education and Training	3,935	400	7,200	4,400	(2,800)
4720 - Conference Travel & Expenses	0	800	10,900	3,100	(7,800)
4815 - Repair & Maint - Equipment	3,501	9,000	9,000	9,000	0
4910 - Miscellaneous Fees & Registration	1,212	400	1,000	1,250	250
4915 - Miscellaneous Financial Expenses	1,035,061	1,954,000	2,084,000	2,290,000	206,000
8050 - Equipment (under \$5,000)	1,942	9,700	700	5,300	4,600
<b>Materials, Supplies and Services</b>	<b>2,062,125</b>	<b>3,169,900</b>	<b>3,522,900</b>	<b>3,366,650</b>	<b>(156,250)</b>
E 1270 - General Plant & Equip (over \$5,000)	0	0	0	65,000	65,000
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65,000</b>	<b>65,000</b>
<b>Total FIN - Finance</b>	<b>4,609,409</b>	<b>5,810,700</b>	<b>5,959,300</b>	<b>5,902,150</b>	<b>(57,150)</b>

**Notes**

**Board of Water Supply  
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Fiscal Year 2023**

**FIN - Finance**

**5900 - Finance Administration**

**Section's Activity**

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

<b>Account</b>	<b>FY2021 Actual</b>	<b>FY2021 Adopted Budget</b>	<b>FY2022 Adopted Budget</b>	<b>FY2023 Proposed Budget</b>	<b>Change</b>
4110 - Salaries & Wages	378,879	341,300	369,800	381,100	11,300
4120 - Overtime	584	500	200	0	(200)
4130 - Miscellaneous (Payroll)	8,375	0	0	0	0
<b>Personnel Services</b>	<b>387,837</b>	<b>341,800</b>	<b>370,000</b>	<b>381,100</b>	<b>11,100</b>
4160 - Meals; Mileage & Uniform Allowances	24	0	0	300	300
4250 - Other Contractual Services	1,773	5,000	5,000	5,000	0
4270 - Professional Services	244,800	258,500	336,600	308,600	(28,000)
4430 - Miscellaneous Supplies	9,408	15,000	15,000	15,000	0
4500 - Education and Training	3,935	400	7,200	4,400	(2,800)
4720 - Conference Travel & Expenses	0	800	10,900	3,100	(7,800)
4815 - Repair & Maint - Equipment	1,377	1,000	1,000	1,000	0
4910 - Miscellaneous Fees & Registration	1,212	0	1,000	1,250	250
4915 - Miscellaneous Financial Expenses	7,000	0	0	0	0
8050 - Equipment (under \$5,000)	0	3,800	0	0	0
<b>Materials, Supplies and Services</b>	<b>269,528</b>	<b>284,500</b>	<b>376,700</b>	<b>338,650</b>	<b>(38,050)</b>
1270 - General Plant & Equip (over \$5,000)	0	0	0	65,000	65,000
<b>Equipment</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65,000</b>	<b>65,000</b>
<b>Total Finance Administration</b>	<b>657,365</b>	<b>626,300</b>	<b>746,700</b>	<b>784,750</b>	<b>38,050</b>

**Budget Highlights**

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**FIN - Finance**

**5910 - Treasury**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	84,148	96,600	100,600	103,900	3,300
4120 - Overtime	0	2,000	1,000	1,000	0
<b>Personnel Services</b>	<b>84,148</b>	<b>98,600</b>	<b>101,600</b>	<b>104,900</b>	<b>3,300</b>
M 4270 - Professional Services	741,508	793,000	533,000	713,000	180,000
4910 - Miscellaneous Fees & Registration	0	200	0	0	0
4915 - Miscellaneous Financial Expenses	1,028,061	1,954,000	2,084,000	2,290,000	206,000
<b>Materials, Supplies and Services</b>	<b>1,769,569</b>	<b>2,747,200</b>	<b>2,617,000</b>	<b>3,003,000</b>	<b>386,000</b>
<b>Total Treasury</b>	<b>1,853,717</b>	<b>2,845,800</b>	<b>2,718,600</b>	<b>3,107,900</b>	<b>389,300</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
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**FIN - Finance**

**5915 - Rev & Cust Accounting Section**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	972,888	1,143,500	887,100	882,400	(4,700)
4120 - Overtime	56,000	100,000	50,000	50,000	0
4130 - Miscellaneous (Payroll)	60,842	2,000	2,000	2,000	0
<b>Personnel Services</b>	<b>1,089,730</b>	<b>1,245,500</b>	<b>939,100</b>	<b>934,400</b>	<b>(4,700)</b>
4160 - Meals; Mileage & Uniform Allowances	3,549	12,000	5,000	5,000	0
4250 - Other Contractual Services	11,332	8,100	11,800	5,000	(6,800)
4430 - Miscellaneous Supplies	279	0	0	0	0
4460 - Other Materials & Supplies	2,340	3,500	3,500	1,000	(2,500)
4815 - Repair & Maint - Equipment	2,124	8,000	8,000	8,000	0
8050 - Equipment (under \$5,000)	1,942	2,500	0	2,000	2,000
<b>Materials, Supplies and Services</b>	<b>21,565</b>	<b>34,100</b>	<b>28,300</b>	<b>21,000</b>	<b>(7,300)</b>
<b>Total Rev</b>	<b>1,111,295</b>	<b>1,279,600</b>	<b>967,400</b>	<b>955,400</b>	<b>(12,000)</b>

**Budget Highlights**



**Board of Water Supply  
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Fiscal Year 2023**

**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	664,927	647,300	655,900	672,000	16,100
4120 - Overtime	9,849	12,900	7,900	9,100	1,200
4130 - Miscellaneous (Payroll)	17,750	28,000	71,000	70,000	(1,000)
<b>Personnel Services</b>	<b>692,527</b>	<b>688,200</b>	<b>734,800</b>	<b>751,100</b>	<b>16,300</b>
4160 - Meals; Mileage & Uniform Allowances	686	500	200	200	0
4220 - Collection Fees	266	0	0	500	500
4267 - Printed forms	501	0	0	0	0
4430 - Miscellaneous Supplies	9	0	0	0	0
4910 - Miscellaneous Fees & Registration	0	200	0	0	0
8050 - Equipment (under \$5,000)	0	3,100	700	3,300	2,600
<b>Materials, Supplies and Services</b>	<b>1,463</b>	<b>3,800</b>	<b>900</b>	<b>4,000</b>	<b>3,100</b>
<b>Total General Accounting</b>	<b>693,989</b>	<b>692,000</b>	<b>735,700</b>	<b>755,100</b>	<b>19,400</b>

**Budget Highlights**

**Board of Water Supply  
Operating Budget  
Fiscal Year 2023**

**FIN - Finance**

**5940 - Fiscal Services**

**Section's Activity**

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

Account	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	213,258	194,800	215,500	220,200	4,700
4120 - Overtime	64	0	0	200	200
<b>Personnel Services</b>	<b>213,322</b>	<b>194,800</b>	<b>215,500</b>	<b>220,400</b>	<b>4,900</b>
M 4270 - Professional Services	0	0	500,000	0	(500,000)
4460 - Other Materials & Supplies	0	0	0	0	0
8050 - Equipment (under \$5,000)	0	300	0	0	0
<b>Materials, Supplies and Services</b>	<b>0</b>	<b>300</b>	<b>500,000</b>	<b>0</b>	<b>(500,000)</b>
<b>Total Fiscal Services</b>	<b>213,322</b>	<b>195,100</b>	<b>715,500</b>	<b>220,400</b>	<b>(495,100)</b>

**Budget Highlights**

**Board of Water Supply  
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Fiscal Year 2023**

**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
PS 4110 - Salaries & Wages	78,799	69,700	72,700	75,600	2,900
4120 - Overtime	922	2,000	2,700	3,000	300
4130 - Miscellaneous (Payroll)	0	200	0	0	0
<b>Personnel Services</b>	<b>79,721</b>	<b>71,900</b>	<b>75,400</b>	<b>78,600</b>	<b>3,200</b>
4270 - Professional Services	0	100,000	0	0	0
<b>Materials, Supplies and Services</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Systems Accounting</b>	<b>79,721</b>	<b>171,900</b>	<b>75,400</b>	<b>78,600</b>	<b>3,200</b>

**Budget Highlights**

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**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	FY2021 Actual	FY2021 Adopted Budget	FY2022 Adopted Budget	FY2023 Proposed Budget	Change
4610 - Electric Power - Water Distrib Fac	20,933,546	25,000,000	22,000,000	26,000,000	4,000,000
4620 - Electricity	990,714	1,252,000	1,100,000	1,200,000	100,000
4660 - Wastewater Service Charges	114,656	110,000	120,000	120,000	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)	10,671,578	9,000,000	11,000,000	12,400,000	1,400,000
6020 - FICA Contributions	3,198,635	3,000,000	3,200,000	3,000,000	(200,000)
6100 - Health Benefits - Employees	4,020,468	3,780,000	4,000,000	4,300,000	300,000
6200 - Health Benefits - Retirees	6,682,363	5,852,000	7,280,400	7,050,000	(230,400)
6250 - Other Post-Emplymnt Ben (OPEB)	1,782,837	2,600,000	1,637,608	2,090,000	452,392
6320 - Unemployment Insurance Benefits	49,087	15,000	13,000	24,500	11,500
<b>Departmental Fixed Charges</b>	<b>51,743,884</b>	<b>53,909,000</b>	<b>53,651,008</b>	<b>59,484,500</b>	<b>5,833,492</b>
1810 - Bonds Payable	11,125,000	9,450,000	12,605,000	14,845,000	2,240,000
1820 - Notes Payable - State Revolving Funds (SRF)	4,976,861	6,012,000	6,591,000	7,094,300	503,300
7071 - Bond Interest	9,561,688	8,752,000	10,392,000	12,571,600	2,179,600
<b>Debt Service</b>	<b>25,663,549</b>	<b>24,214,000</b>	<b>29,588,000</b>	<b>34,510,900</b>	<b>4,922,900</b>
<b>Total Fixed Charges and Debt Service</b>	<b>77,407,433</b>	<b>78,123,000</b>	<b>83,239,008</b>	<b>93,995,400</b>	<b>10,756,392</b>

**Budget Highlights**



# **PART II**

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# **CAPITAL IMPROVEMENT PROGRAM BUDGET**

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Board of Water Supply  
Capital Improvement Program  
FY 2023

Summary by Categories	Operating Fund (1)	Operating Fund - SRF Eligible (2)	Special Expendable Fund (3)	Improvement Fund (4)	Extramural Fund (5)	Total
<b>I. Research and Development</b>	19,999,500	-	-	-	-	19,999,500
<b>II. Renewal and Replacement</b>						
<b>A. Pumps</b>	6,100,000	-	-	16,400,000	6,000,000	28,500,000
<b>B. Reservoirs</b>	-	-	-	-	8,500,000	8,500,000
<b>C. Pipelines</b>	200,000	500,000	-	37,120,000	4,800,000	42,620,000
<b>D. Treatment</b>	1,500,000	-	-	-	-	1,500,000
<b>E. Facilities</b>	6,050,000	-	-	4,800,000	6,000,000	16,850,000
<b>Category II - sub-total</b>	13,850,000	500,000	-	58,320,000	25,300,000	97,970,000
<b>III. Capacity Expansion</b>						
<b>A. Pumps</b>	-	-	4,950,000	-	-	4,950,000
<b>B. Reservoirs</b>	-	-	-	-	-	-
<b>C. Pipelines</b>	-	-	-	-	-	-
<b>D. Treatment</b>	-	-	-	-	-	-
<b>E. Facilities</b>	-	-	19,000,000	-	-	19,000,000
<b>Category III - sub-total</b>	-	-	23,950,000	-	-	23,950,000
<b>Total - Categories I - III</b>	33,849,500	500,000	23,950,000	58,320,000	25,300,000	141,919,500
<b>Construction Cost Index Account</b>	3,051,825	-	3,300,000	7,803,000	3,585,000	17,739,825
<b>Contract Adjustment Account</b>	21,450,000	-	-	-	-	21,450,000
<b>Capital Improvement Program - Total</b>	58,351,325	500,000	27,250,000	66,123,000	28,885,000	181,109,325

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

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

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

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

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

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



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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
<b><u>II. Renewal and Replacement</u></b>							
<b>A. Pumps</b>							
<b>6. Honouliuli Wells II MCC Replacement</b>	Replacement of above ground piping and valves at pumping units, replacement of MCC and other electrical equipment, replacement of hydro-pneumatic tank, and modification to existing control building.	Const	-	-	5,900,000	-	5,900,000
<b>7. Miliiani Wells IV – Replacement of Pumps No. 1 and 3</b>	Replacement of pumping units and controls and starters, replacement above ground piping and valves at pumping units, replacement of MCC and other electrical equipment, perform wastewater vault investigation, and perform power study.	Const	-	-	8,000,000	-	8,000,000
<b>8. Haleiwa Wells Renovation</b>	Replacement of pumping units and controls and starters, replacement of above ground piping and valves at pumping units, replacement and relocation of the site electrical transformer, replacement of MCC and other electrical equipment, and perform new permanent discharge study.	Const	-	-	-	6,000,000	6,000,000
<b>9. Temporary Pumping Connections</b>	Install connections for temporary pumps at critical pump stations to improve reliability	Const	-	-	2,500,000	-	2,500,000
<b>10. Pump Renewal and Replacement</b>	Renewal and replacement of various BWS pumps and plant facilities.	Const	3,500,000	-	-	-	3,500,000

Board of Water Supply  
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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
<b>11. Selected Deactivated Wells Condition Assessment</b>	Conduct a condition assessment of one well each at the existing Waimalu Wells II, Kaonoahi Wells II sites and the Kaamilo Wells Unit #2, to determine the viability of the wells for potable production use to add more source capacity to the Metropolitan system to make up for the loss of Halawa Shaft caused by the Red Hill fuel contamination.	1,500,000	-	-	-	-	1,500,000
<b>12. Kailua Heights Booster Electrical Upgrades</b>	Install electrical upgrades and facility repairs	450,000	-	-	-	-	450,000
<b>13. Niu Valley Booster No. 1 MCC Replacement</b>	Install MCC replacement and facility repairs	400,000	-	-	-	-	400,000
<b>14. Pump Renewal and Replacement</b>	Renewal and replacement of various BWS pumps and plant facilities.	250,000	-	-	-	-	250,000
<b>Pumps Total</b>		<b>6,100,000</b>	<b>-</b>	<b>-</b>	<b>16,400,000</b>	<b>6,000,000</b>	<b>28,500,000</b>
<b>B. Reservoirs</b>							
<b>15. Wilhelmina Rise 811 Reservoir Replacement</b>	Replace the existing 0.43 reservoir and appurtenances.	-	-	-	-	8,500,000	8,500,000
<b>Reservoirs Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8,500,000</b>	<b>8,500,000</b>

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
<b>C. Pipelines</b>							
<b>16. Palolo Water System Improvements, Part IV</b>	Install 16-inch mains and appurtenances along Pakui Street from 10th Avenue to Wilhelmina Rise 405 Reservoir, along 10th Avenue from Maluhia Avenue to Pakui Street, along Pukele Avenue from 7th Avenue to Maluhia Avenue, along 7th Avenue from Kaaui Street to Pukele Avenue, along Kaaui Street from Palolo Avenue to 7th Avenue and along Palolo Avenue from Kaaui Street to Waiatae Avenue - approx. 4,150 lin. ft. Install 12-inch mains and appurtenances along Kalua Road from Mahana Street to 10th Avenue - approx. 985 lin. ft. Install 8-inch mains and appurtenances along 9th Avenue from Paalea Street to Kiwili Street - approx. 2,410 lin. ft.	-	-	-	11,000,000	-	11,000,000
<b>17. Moanalua Road 8-Inch Main, Waimalu Neighborhood Park Vicinity</b>	Install 8-inch mains and appurtenances along Moanalua Road, from fire hydrant L00646 to Kaahele Road - approx. 580 lin. ft.	-	-	-	1,400,000	-	1,400,000
<b>18. Barbers Point 215 Water System Improvements</b>	Install 30-inch main and appurtenances along the Barbers Point 215 facility access road from Old Farrington Highway to Reservoir No. 1 - approx. 300 lin. ft. Install new drainline along the flowage easement to facilitate the draining of the reservoirs	-	-	-	1,200,000	-	1,200,000
<b>19. Halupa Street 12-Inch Main</b>	Install 12-inch mains and appurtenances along Halupa Street, from Molehu Drive to Punihii Street - approx. 1,200 lin. ft.	-	-	-	3,100,000	-	3,100,000
<b>20. Kahilina Place and Aiea Heights Drive Area Water System Improvements</b>	Install 8-inch mains and appurtenances along Kahilina Place, from Aiea Heights Drive to end; along Aiea Heights Drive, from Hoio Street to Aiea 277 Reservoir; along Aheaehe Street, from Kanaloa Street to Aiea Heights Drive; and along Hakina Street, from Kanaloa Street to Kaulainaahe Place - approx. 4,070 lin. ft.	-	-	-	4,920,000	-	4,920,000
<b>21. Mailiili Road 20-Inch Main, Paakea Road to Luualalei Homestead Road</b>	Install 20-inch main and appurtenances along Mailiili Road, from Paakea Road to Luualalei Homestead Road - approx. 3,800 lin. ft.	-	-	-	5,700,000	-	5,700,000

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
<b>22. Kakela Drive and Mohala Way Water System Improvements</b>	Install 8-inch mains and appurtenances along Kakela Drive, from McKinley Street to McKinley Street; and along Mohala Way, from East Manoa Road to Beckwith Street - approx. 1,865 lin. ft. Install 8-inch and 4-inch mains along Kakela Place, from Kakela Drive to end; and along Kakela Iki Place, from Kakela Drive to end - approx. 300 lin. ft.	-	-	-	2,000,000	-	2,000,000
<b>23. Monsarrat Avenue Water System Improvements</b>	Install 16-inch mains and appurtenances along Monsarrat Avenue from 225 feet west of Paki Avenue to Campbell Avenue, along Campbell Avenue from Monsarrat Avenue to Kaunaoa Street - approx. 2,030 lin. ft. Install 12-inch mains and appurtenances along Campbell Avenue from Monsarrat Avenue to Kaunaoa Street - approx. 310 lin. ft. Install 8-inch mains and appurtenances along Monsarrat Avenue from Paki Avenue to Campbell Avenue, and along Kanaina Avenue from Monsarrat Avenue to Kaunaoa Street - approx. 1,740 lin. ft.	-	-	-	-	4,800,000	4,800,000
<b>24. Diamond Head Water System Improvements Part III</b>	Install 12-inch mains and appurtenances along Puu Panini Avenue from 22nd Avenue to Palekua Street, along Palekua Street from Puu Panini Avenue to Hakaka Street - approx. 1,100 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Palekua Place from Palekua Street to end - approx. 220 lin. ft.	-	-	-	1,800,000	-	1,800,000
<b>25. Water Main Installation &amp; Replacement</b>	Install and replace water mains at various locations.	50,000	-	-	-	-	50,000
<b>26. Water System Improvements at Various Locations</b>	Install mains and appurtenance to replace high risk water mains at various locations throughout the island.	-	-	-	6,000,000	-	6,000,000
<b>27. Kapolei Parkway 24-inch R-1 Water Main</b>	Install 24-inch mains and appurtenances along Kapolei Parkway, from near FH No. L04892 to Kamokila Boulevard - approx. 700 lin. ft.	-	500,000	-	-	-	500,000

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
28. Service Laterals of Unknown Materials Replacements	Replace service laterals of unknown materials at various locations	100,000	-	-	-	-	100,000
29. Water Main Installation & Replacement	Install and replace water mains at various locations.	50,000	-	-	-	-	50,000
<b>Pipelines Total</b>		<b>200,000</b>	<b>500,000</b>	<b>-</b>	<b>37,120,000</b>	<b>4,800,000</b>	<b>42,620,000</b>
<b>D. Treatment</b>							
30. GAC Interior Corrosion Control at Various Locations	Perform interior corrosion control of selected BWS GAC facilities. CM services funding included for this project.	1,000,000	-	-	-	-	1,000,000
		500,000	-	-	-	-	500,000
<b>Treatment Total</b>		<b>1,500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,500,000</b>
<b>E. Facilities</b>							
31. Nuuanu Reservoir No. 1 Dam Improvements	Rehabilitate dam, spillway and outlet works; install remote water level monitoring equipment	-	-	-	3,000,000	-	3,000,000
32. Pump Station Instrumentation & Controls and SCADA Upgrade	Upgrade instrumentation and controls equipment at various pump stations and revamp SCADA system to provide smarter functionality. Project planning, design, and management services	-	-	-	1,500,000	-	1,500,000
33. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	4,000,000	-	-	-	-	4,000,000
34. Security Improvements at Various Locations	Security improvements and enhancements includes, but not limited to fencing, doors and windows, vegetation setbacks and access control systems at various BWS locations.	-	-	-	-	4,600,000	4,600,000

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
<b>35. Nuuanu Reservoir No. 2 and 3 - Assessment of Dams' Safety</b>	Evaluate the overall integrity of the dams and identify any safety improvements needed.	250,000	-	-	-	-	250,000
<b>36. Kaahumanu Wells Control Valve Renovation</b>	Upgrade control valve assembly and water line connections to more efficiently allow the controlled release of Pearl Harbor 285 system water into the Metropolitan 180 system needed due to the loss of Halawa Shaft because of the Red Hill fuel contamination.	-	-	-	-	650,000	650,000
<b>37. Manana Wells Control Valve Installation</b>	Install a control valve assembly and water line connections to allow the controlled release of Pearl Harbor 285 system water into the Metropolitan 180 system needed due to the loss of Halawa Shaft because of the Red Hill fuel contamination.	-	-	-	-	750,000	750,000
<b>38. Pump Station Assessment and Operations/Repairs</b>	Update pump station condition assessments and operations database	300,000	-	-	-	-	300,000
<b>39. Facility Repair and Renovation</b>	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	1,250,000	-	-	-	-	1,250,000
<b>40. Monitoring Well Assessment and Repair</b>	Provide well condition assessment and associated repair services for monitor wells.	50,000	-	-	-	-	50,000
<b>41. Professional Services for BWS Projects</b>	Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	200,000	-	-	-	-	200,000
<b>Facilities Total</b>		<b>6,050,000</b>	<b>-</b>	<b>-</b>	<b>4,800,000</b>	<b>6,000,000</b>	<b>16,850,000</b>
<b>Total Category II - Renewal and Replacement</b>		<b>13,850,000</b>	<b>500,000</b>	<b>-</b>	<b>58,320,000</b>	<b>25,300,000</b>	<b>97,970,000</b>

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**III. Capacity Expansion**

**A. Pumps**

		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
<b>42. Ewa Shaft Tunnel Improvements</b>	Drill, case, install test pump and sample up to five (5) exploratory wells	-	-	4,000,000	-	-	4,000,000
<b>43. Kunia Wells IV</b>	Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for three (3) production wells and GAC treatment facility for Kunia Wells IV	-	-	450,000	-	-	450,000
<b>44. Hawaii State Hospital Well Test</b>	Survey, video log, clean and clear, test pump and sample well. Provide technical report of findings and recommendations regarding feasibility of bringing well into service.	-	-	400,000	-	-	400,000
<b>45. Pacific Heights Booster No. 1</b>	Determine land acquisition costs for the site of a new Pacific Heights Booster No. 1 to eliminate cross-country water main between Jack Lane and the Pacific Heights 578 Reservoir.	-	-	100,000	-	-	100,000

**Pumps Total** - - - **4,950,000** - - **4,950,000**

**B. Reservoirs**

**Reservoirs Total** - - - - - - - - -

**C. Pipelines**

**Pipelines Total** - - - - - - - - -

**D. Treatment**

**Treatment Total** - - - - - - - - -

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		Operating Fund	Operating Fund - SRF	Special Expendable Fund	Improvement Funds	Extramural Fund	Total
<b>E. Facilities</b>							
<b>46. Kalaeloa Sea Water Desalination Facility</b>	Const	-	-	18,000,000	-	-	18,000,000
	Design-Build-Operate-Maintain (DBOM) contract for a 1.7 mgd desalination facility with limited oversizing for future expansion. Install 16-inch transmission main along the project boundary from desalination facility to Olai Street, along Olai Street from end to Kalaeloa Boulevard, along Kalaeloa Boulevard from Olai Street to the existing 16-inch main near the Northern end of TMK 9-1-031:022- approx. 4,800 lin. ft.						
	P&E	-	-	1,000,000	-	-	1,000,000
	Provide project management services to monitor DBOM progress, plans review and RFI response.						
<b>Facilities Total</b>		-	-	<b>19,000,000</b>	-	-	<b>19,000,000</b>
<b>Total Category III - Capacity Expansion</b>		-	-	<b>23,950,000</b>	-	-	<b>23,950,000</b>
<b>Total Categories I - III</b>		<b>33,849,500</b>	<b>500,000</b>	<b>23,950,000</b>	<b>58,320,000</b>	<b>25,300,000</b>	<b>141,919,500</b>
<b>Construction Cost Index Adjustment</b>		<b>3,051,825</b>	-	<b>3,300,000</b>	<b>7,803,000</b>	<b>3,585,000</b>	<b>17,739,825</b>
<b>Contract Adjustment Account</b>		<b>21,450,000</b>	-	-	-	-	<b>21,450,000</b>
<b>FY 2023 Capital Improvement Program Total</b>		<b>58,351,325</b>	<b>500,000</b>	<b>27,250,000</b>	<b>66,123,000</b>	<b>28,885,000</b>	<b>181,109,325</b>