

MINUTES

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

May 26, 2015

The Public Hearing was held in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, to Consider (1) Adoption of the Operating and Capital Improvement Program Budget for the Fiscal Year 2015-2016 and Appropriating Funds Therefor.

Present: Duane R. Miyashiro, Board Chair
Adam C. Wong, Vice Chair
Theresa C. McMurdo (arrived at 2:02 p.m.)
David C. Hulihee
Ross S. Sasamura
Ford N. Fuchigami

Also Present: Ernest Lau, Manager and Chief Engineer
Ellen Kitamura, Deputy Manager and Chief Engineer
Robert Morita
Stuart Wong
Erwin Kawata
Daryl Hiromoto
Jason Takaki
Kevin Ihu
Barry Usagawa
Henderson Nuuhiwa
Mike Matsuo
Paul Kikuchi
Joe Cooper
Shawn Nakamoto
Jennifer Elflein
Alex Ubiadas
Teri Akana

Others Present: Richard Lewallen, Deputy Corporation Counsel
Dan Lawrence, Deputy Corporation Counsel
Janice Marsters, Kennedy/Jenks Consultants
Chris Cleveland, Brown and Caldwell
Cliff Lum, SSFM International
Craig Von Barga, CDM Smith
Joseph Stewart, Kobayashi, Sugita and Goda, LLP
Burt Lau, Kobayashi, Sugita and Goda, LLP

Absent: Kapua Sproat

At 2:00 PM on May 26, 2015, Board Chair Miyashiro called to order the Regular Meeting.

APPROVAL
OF MINUTES

Approval of the Minutes of the Regular Meeting held on April 27, 2015

MOTION
TO APPROVE

David Hulihee and Ross Sasamura motioned and seconded, respectively, to approve the Minutes of the Regular Session Meeting of April 27, 2015. The motion was unanimously carried.

APPROVAL
OF MINUTES

Approval of the Minutes of the Workshop Meeting held on May 18, 2015

DISCUSSION

Manager Lau announced that there is one correction to one of the slides presented at the May 18, 2015 Budget Workshop Meeting. The total for the slide titled, "FY 2016 Operating and Capital Improvement Program Budget Summary" was noted as \$267,668,586, but should be \$270,646,796.

MOTION
TO APPROVE

Adam Wong and David Hulihee motioned and seconded, respectively, to approve the Minutes of the Workshop Session Meeting of May 18, 2015, as amended. The motion was unanimously carried.

At 2:02 PM, Chair Miyashiro called to order the Public Hearing announcing that this Public Hearing is to consider the proposed 2015-2016 Operating and Capital Improvement Program (CIP) Budget for the fiscal year beginning July 1, 2015. A notice of Public Hearing appeared in the May 19, 2015, Honolulu Star Advertiser newspaper.

Before beginning the Public Hearing, Mr. Miyashiro stated that this Board is dedicated to the provision of a safe, dependable, and affordable supply of water to their customers. One of the best ways they ensure that this occurs is to thoughtfully plan and fund a regular program of water facility replacement and improvement as reflected in the annual Operating and CIP Budget they are considering today.

On May 18, 2015, a public meeting was held and a budget informational workshop was presented. The workshop outlined the Department's goals and objectives and the proposed Operating and CIP Budgets for the fiscal year 2015-2016.

Before taking testimony, Ernest Lau, Manager and Chief Engineer of the Board of Water Supply stated that they will be showing a PowerPoint presentation for those members of the public that may not have been here at the Budget Workshop held earlier on May 18. Mr. Lau explained that the proposed budget for fiscal year 2015-2016 consists of the Operating Budget and the CIP Budget. The Operating Budget provides for operational and maintenance costs for continuing water services to customers, while the CIP Budget provides funding for research and facility replacement costs, as well as funding for major water system additions or expansions.

Combined, these budgets propose total expenditures of \$270.6 million. Approximately 69 percent of the combined budgets are allocated to operating expenditures totaling \$187 million, while 31 percent or \$83.7 million is allocated to the CIP.

Operating budget expenditures of \$187 million are proposed for funding next year's operating costs. CIP budget expenditures are proposed at \$83.7 million and funding will be \$61.5 million by the Operating Fund, \$3.7 million by the Special Expendable Fund, \$15.5 million from the State Revolving Fund, and \$3 million by the Reserve Release Fund. Taken together, total Operating and CIP Budget expenditures increased by 6.2 percent or \$15.8 million over the amount budgeted for the current fiscal year. This was primarily attributable to increases in funding for the CIP (increase of \$8.2 million); increase in funding materials, supplies and services (increase of \$4.4 million); increase in funding for personnel services (increase of \$2.9 million); increase in funding for fixed charges (increase of \$440,000) and an increase in funding for debt service (increase of \$106,000). These increases were offset by a decrease in funding for equipment purchases (decrease of \$110,000).

To fund these budgets, revenues from all current sources, with the proposed increases in Quantity Charges, and a carry-over balance from prior years will allow BWS to provide an adequate unappropriated fund balance.

Mr. Lau announced that Robert Morita of the Executive Support Office will give a presentation of the Operating Budget and Jason Takaki of the Capital Projects Division will give a presentation of the CIP Budget.

Mr. Morita acknowledged and thanked Mr. Stuart Wong of the Management and Budget Office for his hard work in putting this budget together. Mr. Morita gave a presentation on the Operating Budget. Following the presentation, Board Member McMurdo asked how the projected operating

revenue is projected. Mr. Morita responded that they take the actual information they have and compare it for seasonality based on previous years. Ms. McMurdo inquired if it's just tacking on a percentage. Mr. Morita replied that they don't necessarily tack on a percentage but if water usage is up, and based on the trends from the prior year, they will carry that trend forward.

Jason Takaki gave a presentation on the CIP Budget. Following his presentation, he announced that all of the division heads and staff officers were present to describe in greater detail any specific project in the FY 2016 CIP and to answer any questions. Upon Mr. Lau's request, each division head and staff officer introduced themselves. Mr. Lau informed the Board that this is the leadership team of the BWS, and through their dedicated efforts and sacrifice, they keep the water systems flowing every day, 24/7.

Mr. Morita concluded the presentation by providing a summary of the FY 2016 Budget. Ms. McMurdo asked what the Reserve Release Fund is. Waterworks Controller Joe Cooper explained that when they refinanced bonds in December 2014, the required balance in the common reserve fund went down and money was released from the common reserve fund. Since some of that is still considered bond funded money and has special conditions attached to it, it was placed in the Reserve Release Fund to keep track of the amount that had special restrictions attached. Mr. Lau added that they need to expend that as part of the CIP. Mr. Cooper explained that it is generally for capital improvements because that was the original intent of the bonds when they were issued in 2004, and they should be expended on capital improvements within three years.

Chair Miyashiro announced that they will now take testimony on the proposed Operating and CIP Budget. There being no testimony, discussion, or questions, Chair Miyashiro closed the Public Hearing and continued on with the Regular Meeting of the Board.

"May 26, 2015

ADOPTION OF
RESOLUTION
NO. 855, 2015

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

Chair and Members:

Subject: Adoption of Resolution No. 855, 2015, Adopting the Operating and Capital Improvement Program Budget for the Fiscal Year 2016 and Appropriating Funds Therefor

We recommend adoption of the proposed Operating and Capital Improvement Program Budget for the fiscal year beginning July 1, 2015 and ending June 30, 2016.

A public hearing to consider the proposed budget, as required by the City Charter, was held on May 26, 2015. The affidavit attesting to the publication of the public hearing notice is attached.

We further recommend adoption of the attached Resolution No. 855, 2015, appropriating funds for the Operating and Capital Improvement Program Budget for fiscal year 2015-2016 as follows:

1. The sum of \$186,979,296 from the Operating Fund for Operating Budget expenditures.
2. The sum of \$61,529,290 from the Operating Fund, \$3,650,000 from the Special Expendable Fund, \$15,510,000 from the State Revolving Fund and \$2,978,210 from the Reserve Release Fund for Capital Improvement Program Budget expenditures.

Respectfully submitted,

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

Attachments"

AFFIDAVIT OF PUBLICATION

IN THE MATTER OF NOTICE OF PUBLIC HEARING

STATE OF HAWAII

City and County of Honolulu

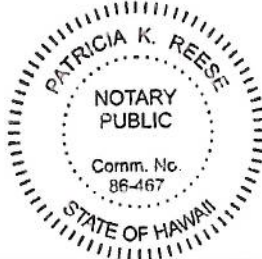
SS.

Doc. Date: MAY 19 2015 # Pages: 1

Notary Name: Patricia K. Reese First Judicial Circuit

Doc. Description: Affidavit of
Publication

Notary Signature: *Patricia K. Reese* MAY 19 2015 Date



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

Honolulu Star-Advertiser 1 times on:

05/19/2015

MidWeek 0 times on:

The Garden Island 0 times on:

Hawaii Tribune-Herald 0 times on:

West Hawaii Today 0 times on:

Other Publications: 0 times on:

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

Julie Clark

Subscribed to and sworn before me this 19th day of May A.D. 2015

Patricia K. Reese, Notary Public of the First Judicial Circuit, State of Hawaii

My commission expires Oct 07, 2018

Ad # 0000757330

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the BOARD OF WATER SUPPLY, CITY AND COUNTY OF HONOLULU, will hold a PUBLIC HEARING in the Board Room, Public Service Building, 630 South Beretania Street, on TUESDAY, MAY 26, 2015, at 2:00 p.m. or soon thereafter, where all interested persons shall be afforded the opportunity of being heard on the adoption of the Proposed FY 2016 Operating and Capital Improvement Program Budget of the Board of Water Supply for the fiscal year July 1, 2015 to June 30, 2016.

Information to be discussed at this public hearing is available at Room 201 of the Public Service Building, Board of Water Supply, 630 South Beretania Street. All comments on or suggested changes to the proposed FY 2016 Operating and Capital Improvement Program Budget of the Board of Water Supply should be filed in writing before the date of the public hearing or presented in person at the time of the hearing. Persons wishing to speak are requested to register by 1:00 p.m. with Alison Kawata, 748-5100, by providing your name, phone number, and subject matter of testimony. Testimony is limited to three minutes and shall be presented by the registered speaker only. Any questions, please call 748-5100. Any disabled person requiring special assistance who plans to attend the public hearing, may contact Ms. Alison Kawata at 748-5100, no later than May 21 2015, so that appropriate accommodations can be provided.

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

(SA757330 5/19/15)



SP.NO.: L.N.

DISCUSSION

There were no other comments or discussion.

MOTION TO
ADOPT
BUDGET

Adam Wong motioned to adopt Resolution No. 855, 2015, Adopting the Operating and Capital Improvement Program Budget for the Fiscal Year 2016 and Appropriating Funds Therefor. The motion was seconded by Ford Fuchigami and unanimously carried.

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 855, 2015

**RESOLUTION ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT
PROGRAM BUDGET FOR FISCAL YEAR 2016 AND APPROPRIATING FUNDS
THEREFOR**

BE IT RESOLVED by the Board of Water Supply, City and County of Honolulu, State of Hawaii, that in accordance with the provisions of Article VII of the Charter of the City and County of Honolulu, the sum of ONE HUNDRED EIGHTY-SIX MILLION NINE HUNDRED SEVENTY-NINE THOUSAND TWO HUNDRED NINETY-SIX DOLLARS (\$186,979,296) be and the same is hereby appropriated out of all monies placed to the credit of the Operating Fund for expenditures of the Board of Water Supply Operating Budget for the fiscal year beginning July 1, 2015 and ending June 30, 2016 as follows:

OPERATING BUDGET

OPERATING FUND.....\$186,979,296

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

BE IT FURTHER RESOLVED that the sum of SIXTY-ONE MILLION FIVE HUNDRED TWENTY-NINE THOUSAND TWO HUNDRED NINETY DOLLARS (\$61,529,290) be and the same is hereby appropriated out of all monies placed to the

credit of the Operating Fund, the sum of THREE MILLION SIX HUNDRED FIFTY THOUSAND DOLLARS (\$3,650,000) be and the same is hereby appropriated out of all monies placed to the credit of the Special Expendable Fund, the sum of FIFTEEN MILLION FIVE HUNDRED TEN THOUSAND DOLLARS (\$15,510,000) be and the same is hereby appropriated out of all monies placed to the credit of the State Revolving Fund, and the sum of TWO MILLION NINE HUNDRED SEVENTY-EIGHT THOUSAND TWO HUNDRED TEN DOLLARS (\$2,978,210) be and the same is hereby appropriated out of all monies placed to the credit of the Reserve Release Fund for expenditures of the Board of Water Supply Capital Improvement Program Budget for the fiscal year beginning July 1, 2015 and ending June 30, 2016, as follows:


CAPITAL IMPROVEMENT PROGRAM BUDGET

OPERATING FUND.....	\$ 61,529,290
SPECIAL EXPENDABLE FUND.....	\$ 3,650,000
STATE REVOLVING FUND.....	\$ 15,510,000
RESERVE RELEASE FUND.....	\$ 2,978,210

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

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

ADOPTED:


DUANE R. MIYASHIRO
Chair

Honolulu, Hawaii
May 26, 2015

RESOLUTION NO. 855, 2015, ADOPTING THE OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET FOR THE FISCAL YEAR 2016 AND APPROPRIATING FUNDS THEREFOR, WAS ADOPTED AT THE MAY 26, 2015 BOARD MEETING			
	AYE	NO	COMMENT
DUANE R. MIYASHIRO	X		
ADAM C. WONG	X		
THERESIA C. MCMURDO	X		
DAVID C. HULIHEE	X		
KAPUA SPROAT			ABSENT
ROSS S. SASAMURA	X		
FORD N. FUCHIGAMI	X		

WATER FOR LIFE

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



Board of Water Supply
City and County of Honolulu

Board of Water Supply

Fiscal Year 2016 BUDGET

**BOARD MEETING
May 26, 2015**

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Board of Water Supply
City and County of Honolulu

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Agenda

- Opening Remarks
- Operating Budget
- Capital Improvement Program Budget
- Summary

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City and County of Honolulu

FY 2016 Operating Budget





Operating Fund Revenue Expenditure Summary (millions of dollars)

	FY 2015	FY 2016	Change	
	<u>Budget</u>	<u>Proposed</u>	<u>Dollars</u>	<u>Percentage</u>
Revenues	\$217.6	\$219.2	\$1.6	0.7%
Total Operating Expenditures	\$179.3	\$186.9	\$7.6	4.3%



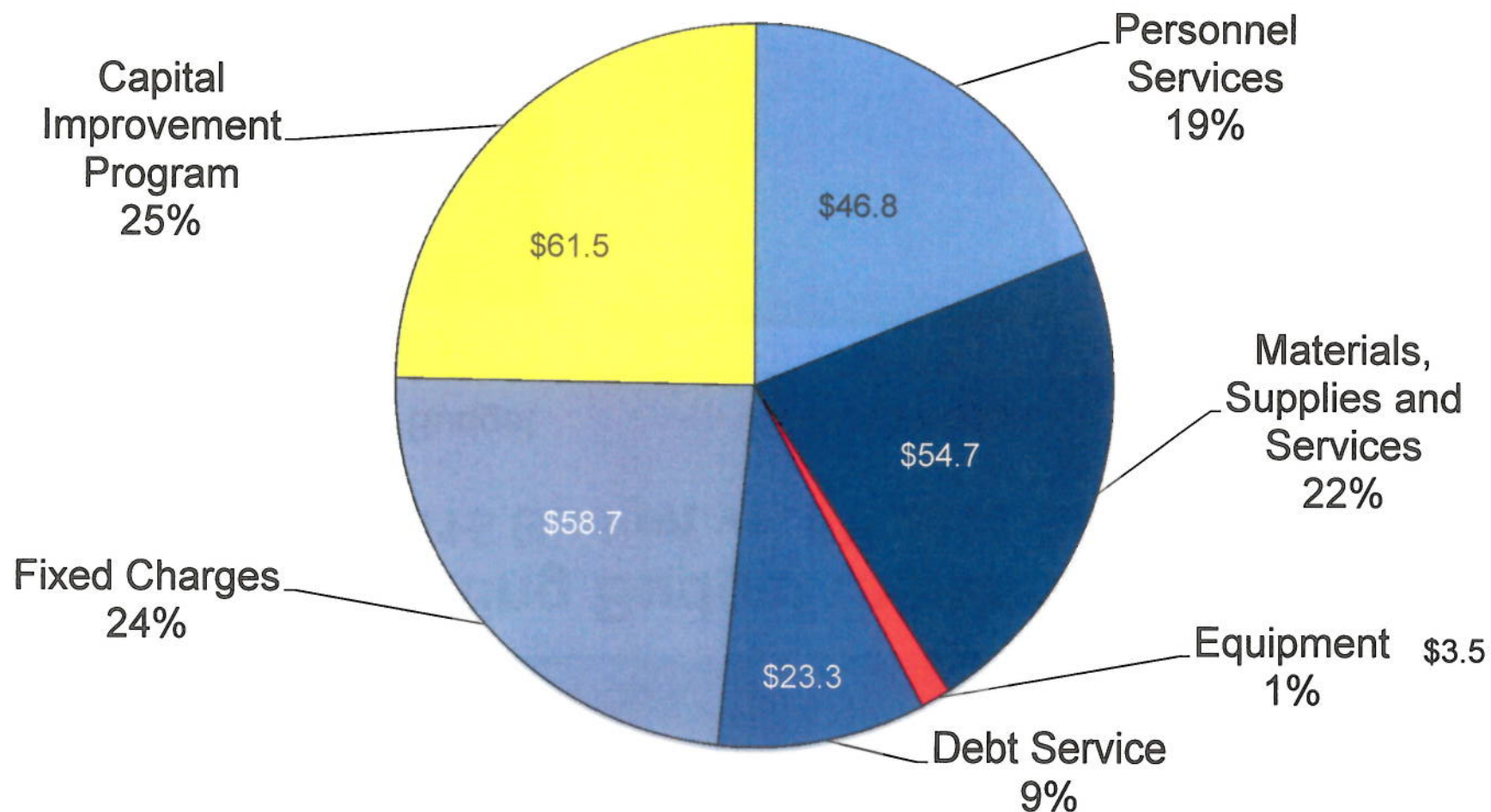
Operating Fund Resources and Expenditures (millions of dollars)

	FY 2014	FY 2015	FY 2015	FY 2016
	Actual	Budget	Estimated	Budget
Beginning Balance	\$ 67.5	\$ 46.3	\$ 61.2	\$ 57.0
Revenues	196.9	217.6	208.2	219.2
Lapses/ Adjustments	2.1	---	1.7	---
Total Resources	266.5	263.9	271.1	276.2
Operating Expenditures	142.3	179.3	153.6	187.0
Capital Improvement Program	63.0	60.5	60.5	61.5
Total Expenditures	205.3	239.8	214.1	248.5
Ending Balance	\$ 61.2	\$ 24.1	\$ 57.0	\$ 27.7



Operating Budget Expenditures for FY 2016

Total budget = \$248.5 (millions of dollars)



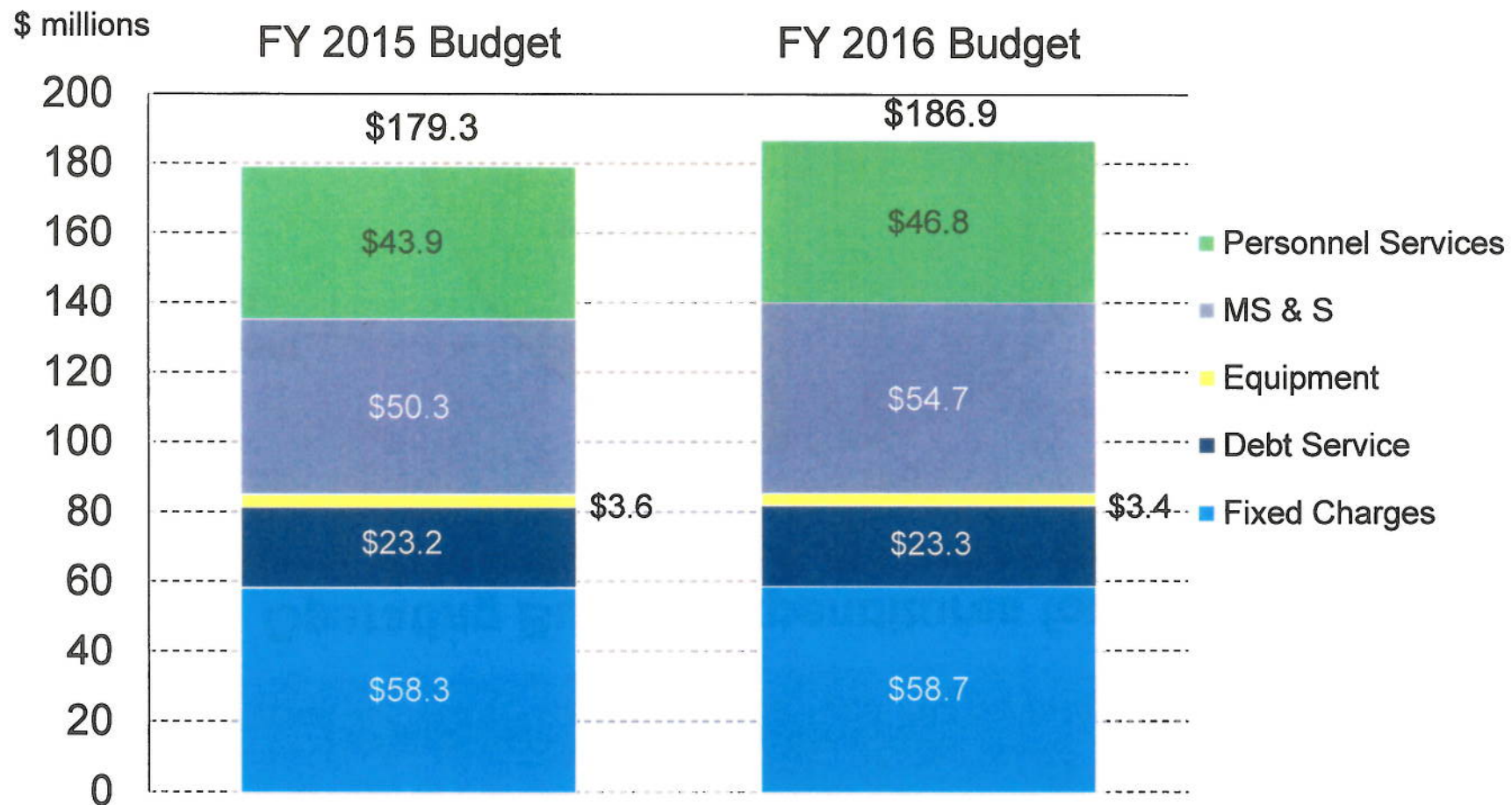
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City and County of Honolulu

Operating Budget Expenditures FY 2015 Budget vs. FY 2016 Budget



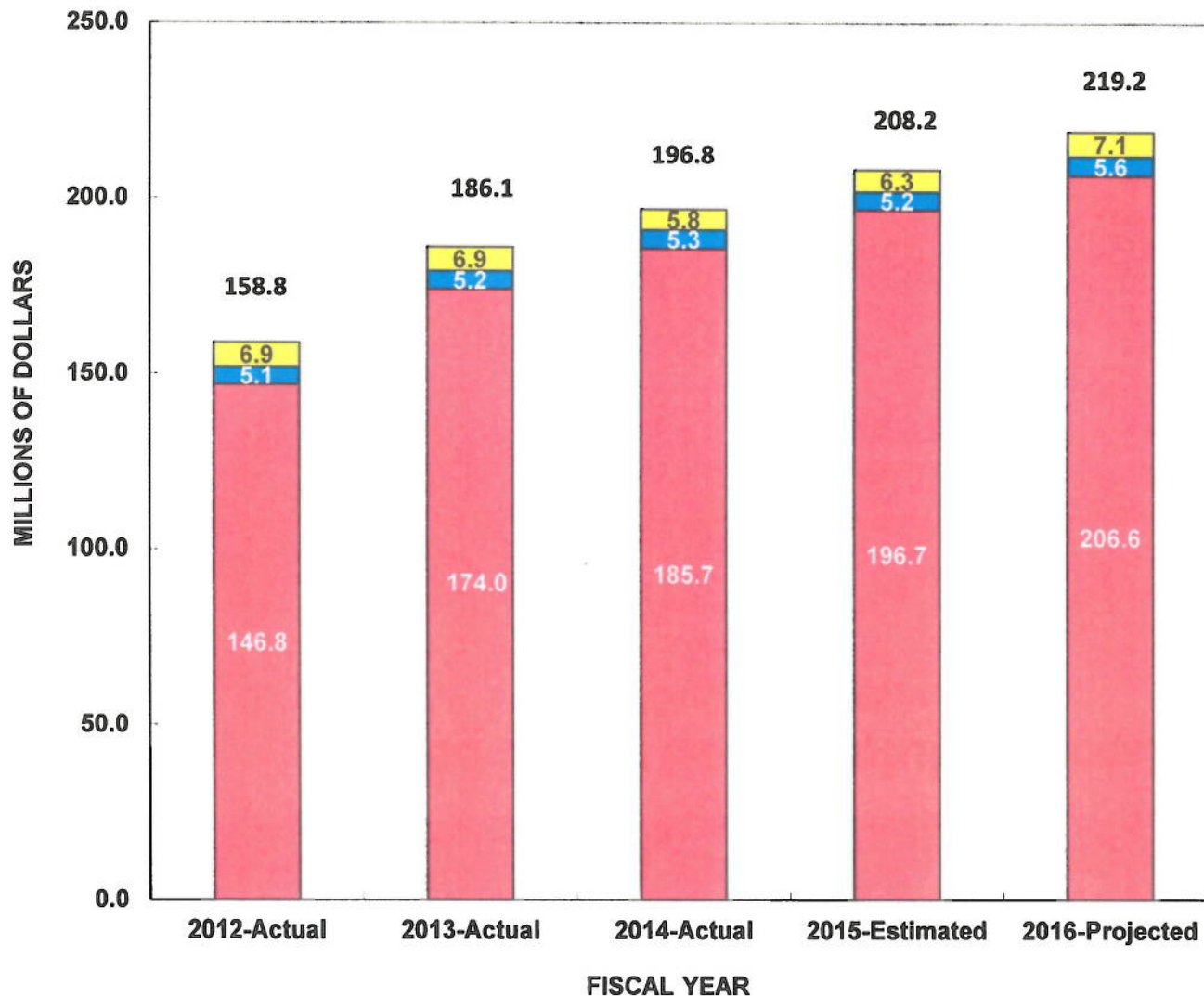
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City and County of Honolulu

OPERATING FUND REVENUE



Fiscal Year 2016

Metered Sales - Potable & Non-Potable	\$206,577,000
Metered Sales - Recycled	5,568,360
Other Revenues	7,056,359
Total Revenues	\$ 219,201,719

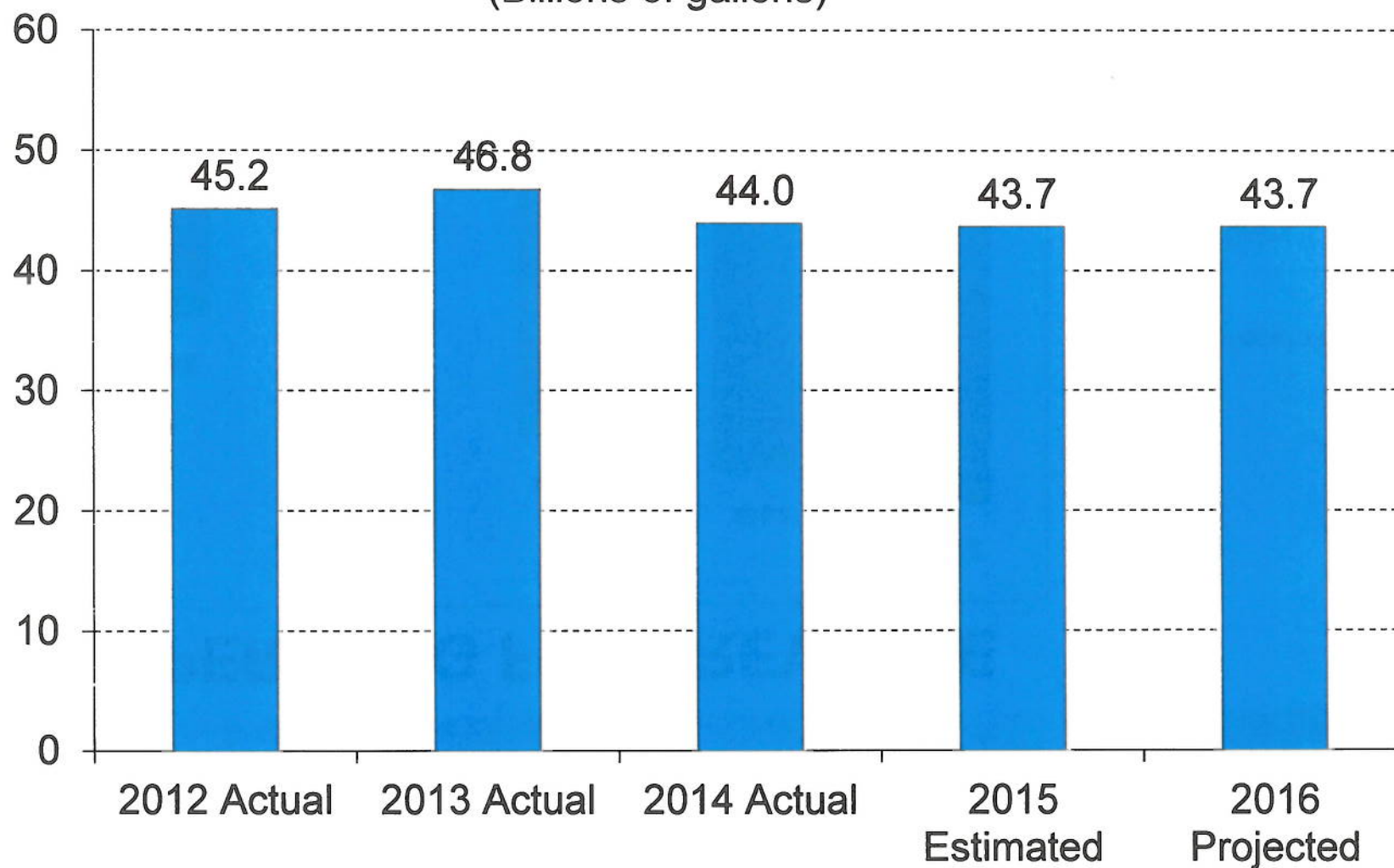
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City and County of Honolulu

Billed Water Sales Volume (potable) (Billions of gallons)



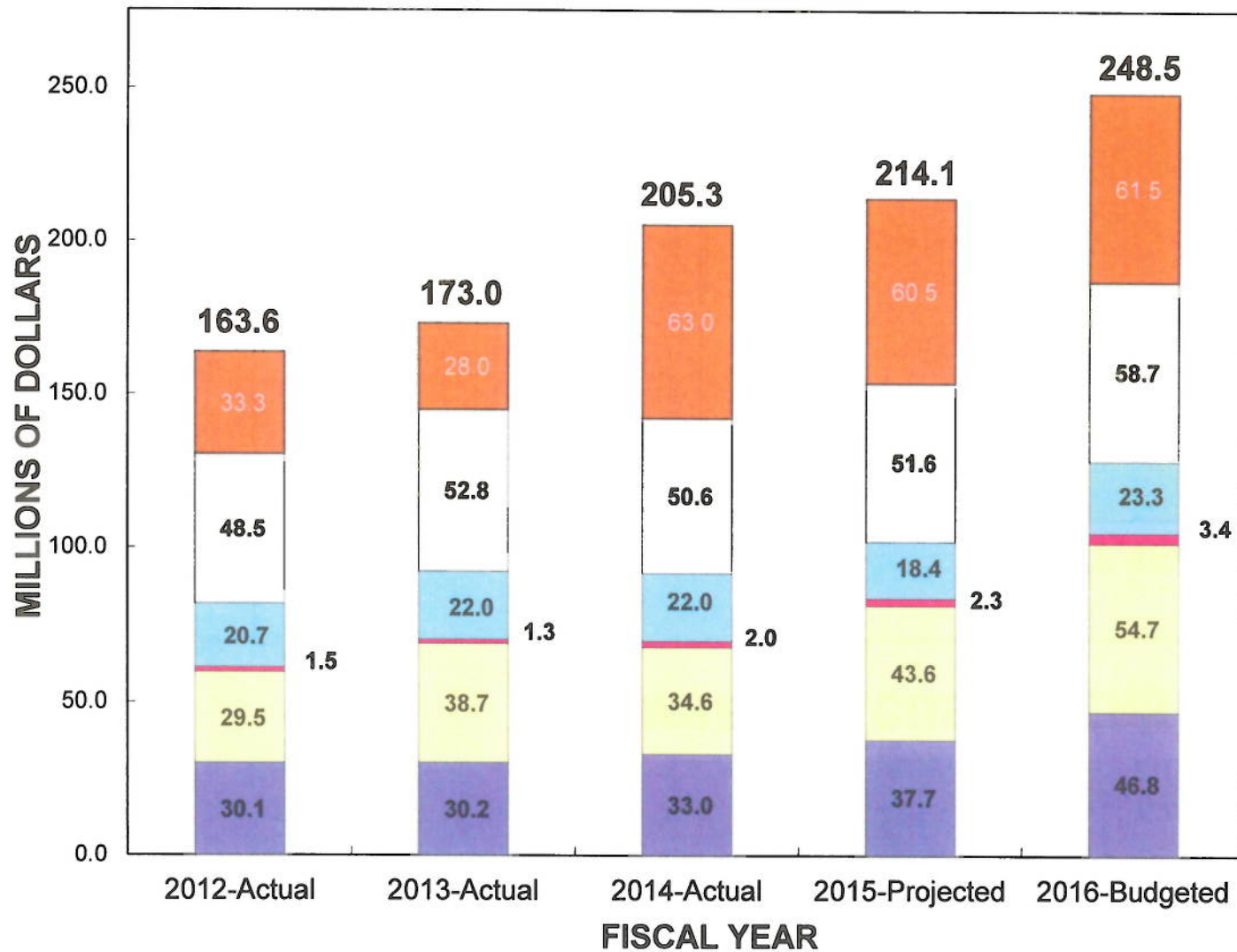
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City and County of Honolulu

OPERATING FUND EXPENDITURES Fiscal Years 2012 - 2016



- CIP
- Fixed Charges
- Debt Service
- Equipment
- Materials, Svcs & Supp.
- Personnel Services

Fiscal Year 2016

CIP	\$ 61,529,290
Fixed Charges	58,739,800
Debt Service	23,311,000
Equipment	3,446,500
MS&S	54,691,932
Personnel Svc.	46,790,064
Total	\$248,508,586

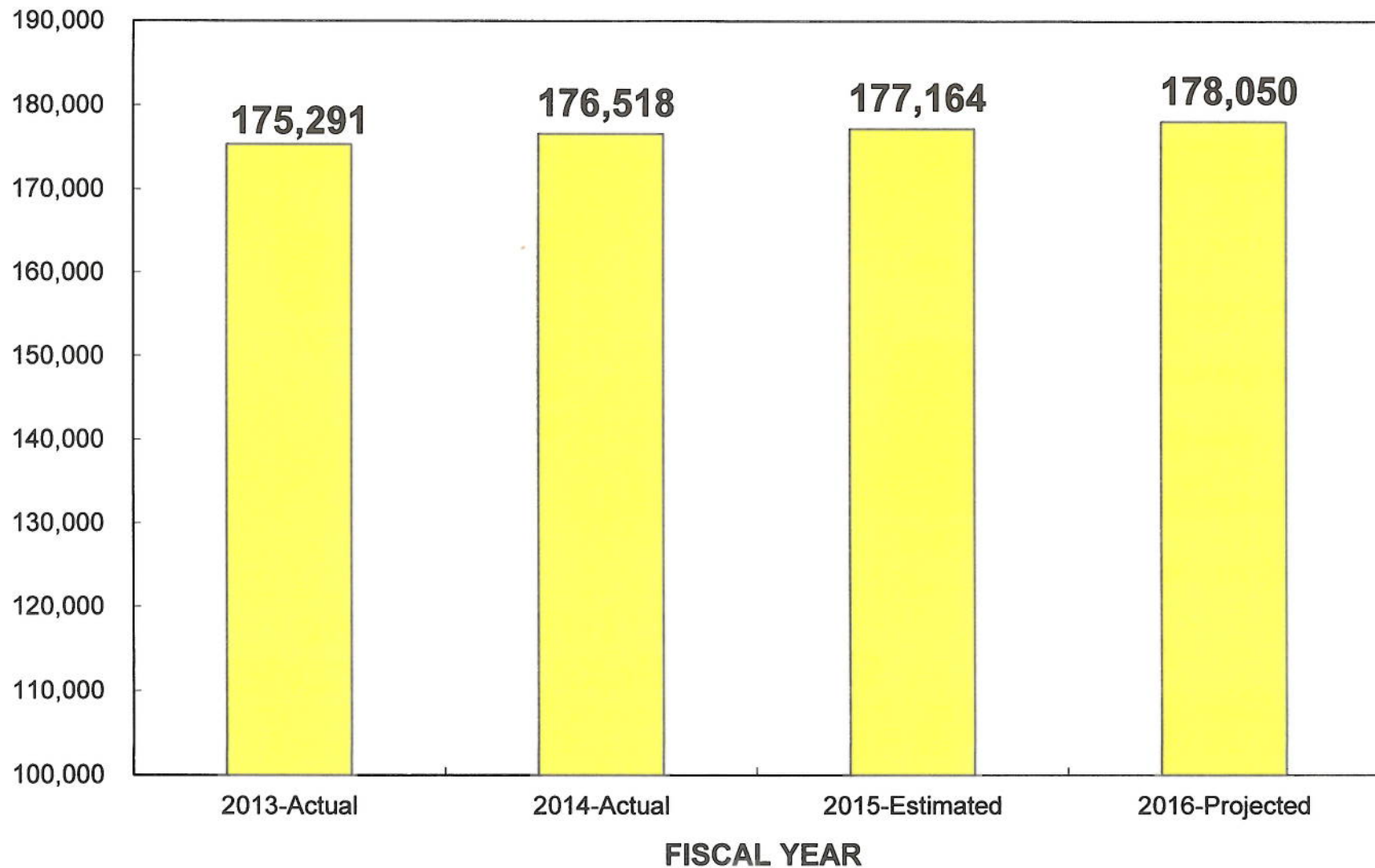
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City and County of Honolulu

NUMBER OF CUSTOMERS



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City and County of Honolulu

Questions



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City and County of Honolulu

Support of the Strategic Plan

- ***Resource Sustainability***
- ***Operational Sustainability***
- ***Financial Sustainability***



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Resource Sustainability

Safe



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Resource Sustainability

Primary Urban Center Watershed

Management Plan





Resource Sustainability

Water Resource Studies

- Variations in cold front passages and frontal rainfall
- Transpiration study
- Climate change vulnerability analysis



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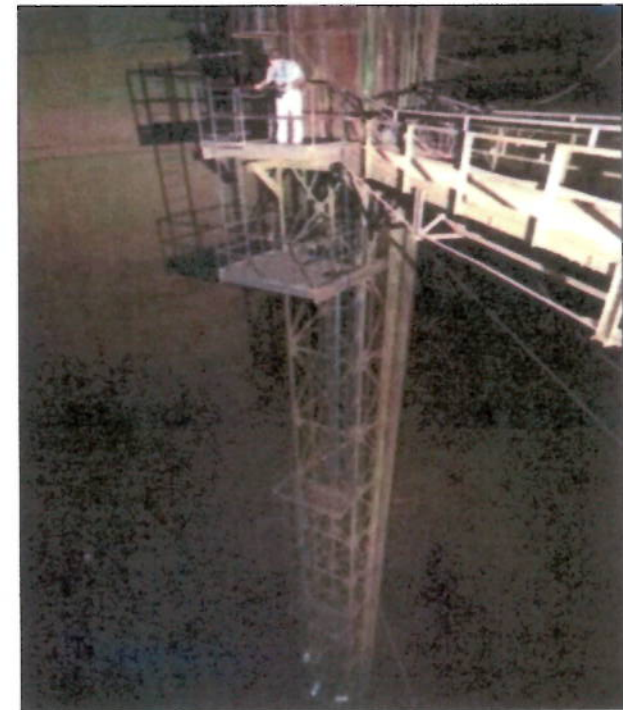
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City and County of Honolulu

Resource Sustainability

Red Hill Fuel Tank Monitoring



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Operational Sustainability

Dependable



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Operational Sustainability

Meter Replacement Program



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Operational Sustainability

Customer Care Quality Assurance Program



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Operational Sustainability Program Management Study



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City and County of Honolulu

Financial Sustainability

Affordable



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Board of Water Supply
City and County of Honolulu

Financial Sustainability Budget Module

3	Data3	list3
4	Data1-1	list1x1
5	Data1-2	list1x2
6	Data1-1-1	list1x1x1
		list2x1



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Board of Water Supply
City and County of Honolulu

FY 2016 Capital Improvement Program Budget



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City and County of Honolulu

FY16 CIP

- Supports the BWS mission of **Water For Life: Safe, dependable, and affordable water now and into the future**
- Aligned with the BWS Strategic Plan 2014-2017, Divisions' Goals & Objectives and the Six-Year Capital Improvement Program





Program Categories

Research and Development

Renewal and Replacement

Capacity Expansion



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City and County of Honolulu

Capital Improvement Program Budget FY 2016

	Categories	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
I.	Research & Development	\$ 2,400,000		\$ 500,000		\$ 2,900,000
II.	Renewal & Replacement	41,776,790		6,600,000	\$ 2,978,210	51,355,000
III.	Capacity Expansion	5,075,000	\$ 3,350,000	7,000,000		15,425,000
	Sub-Total	\$ 49,251,790	\$ 3,350,000	\$ 14,100,000	\$ 2,978,210	\$ 69,680,000
	Adjustment	12,277,500	300,000	1,410,000		13,987,500
	Total	\$ 61,529,290	\$ 3,650,000	\$ 15,510,000	\$ 2,978,210	\$ 83,667,500

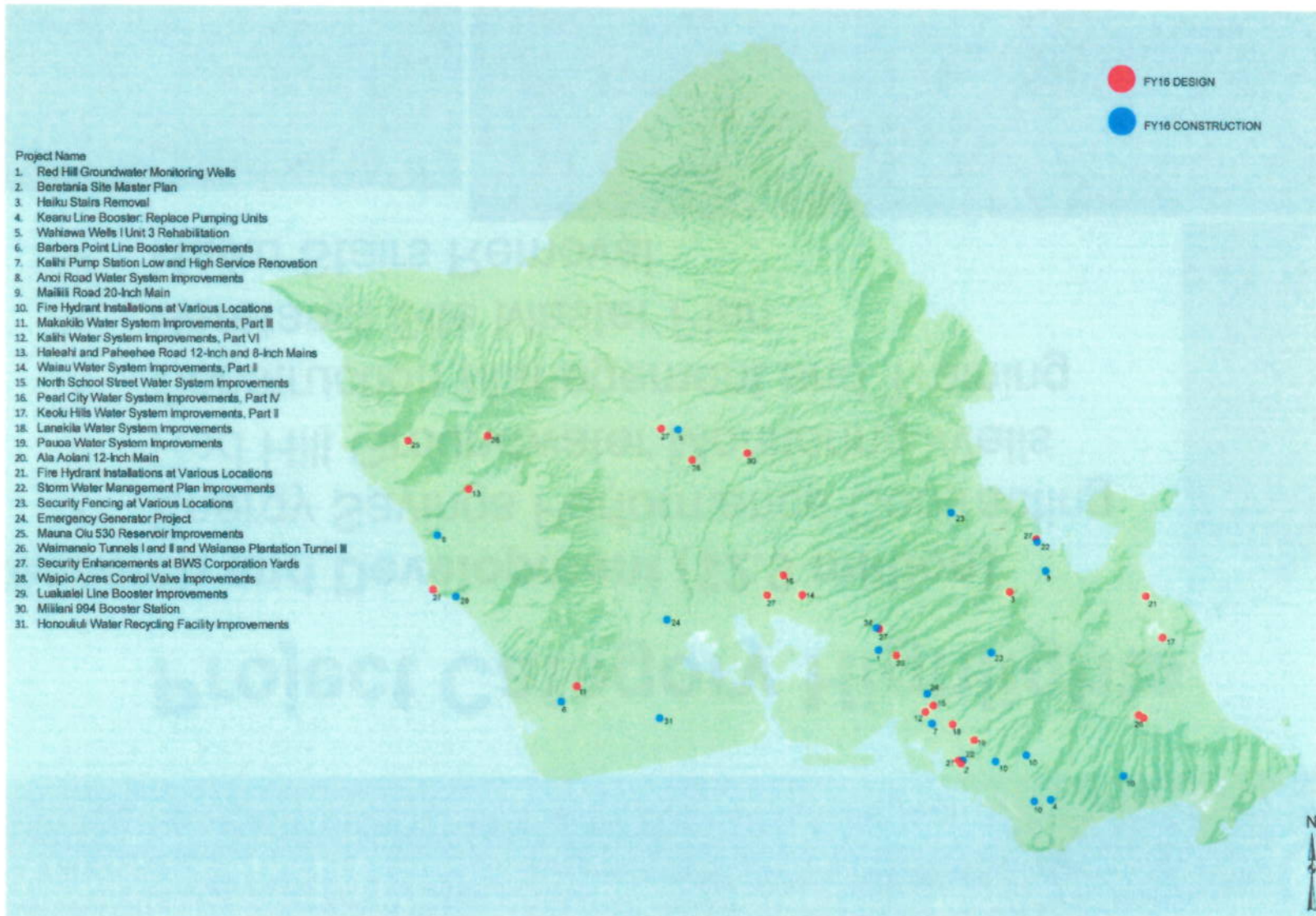


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City and County of Honolulu



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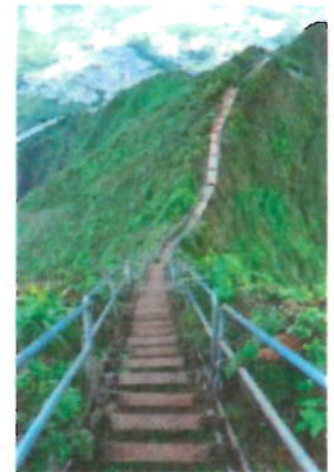


Board of Water Supply
City and County of Honolulu

Project Category Highlights

Research and Development (\$2.9 million)

- Energy Savings Performance Contracting
- Red Hill Groundwater Monitoring Wells
- Construction Management and Training
- Beretania Site Master Plan
- Haiku Stairs Removal





Project Category Highlights

Renewal and Replacement (\$51.3 million)

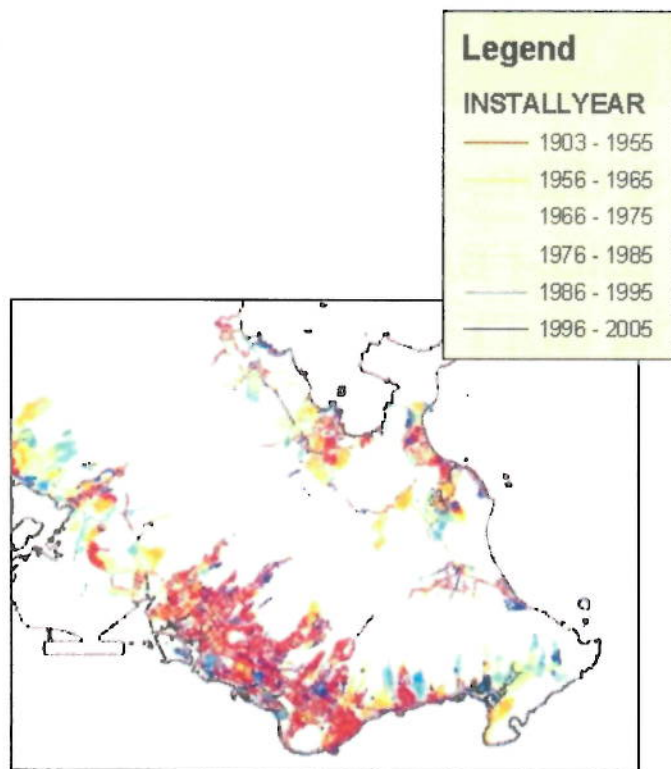
- Keanu Line Booster
- Barbers Point Line Booster
- Kalihi Pump Station Low and High Service





Project Category Highlights

Renewal and Replacement (continued)



- Anoi Road Water System Improvements
- Mailiili Road 20-Inch Main
- Fire Hydrant Installations at Various Locations
- Water System Improvements in Waianae, Makakilo, Pearl City, Waiau, Moanalua, Kalihi, Pauoa and Kailua

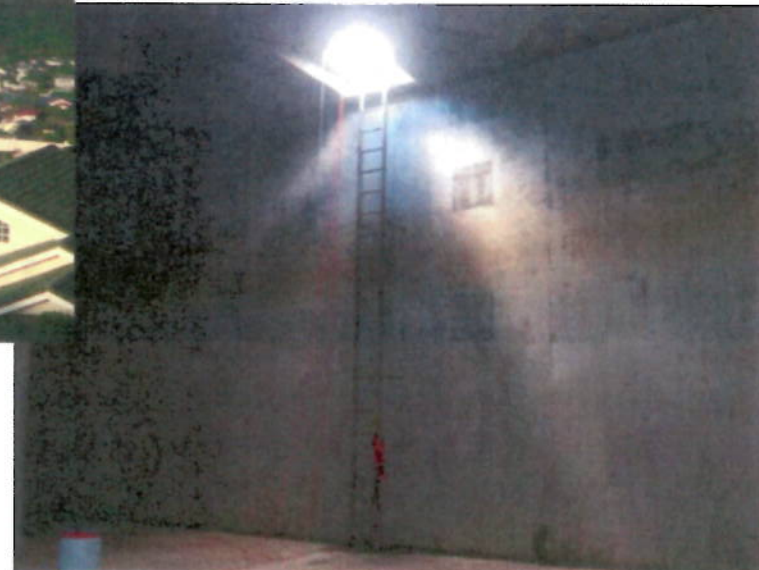




Project Category Highlights

Renewal and Replacement (continued)

- Storm Water Management Plan Improvements
- Emergency Generator Installations
- Facility Repair and Renovation





Project Category Highlights

Renewal and Replacement (continued)

- Computerized Maintenance Management System
- Accounting System (NALU) Enhancements
- Meter Reading Technology Evaluation
- Data Center Renovation
- Security Fencing





Project Category Highlights

Capacity Expansion (\$15.4 million)

- Lualualei Line Booster Improvements
- GAC Facility Improvements
- Honouliuli Water Recycling Facility Improvements
- Backup Power System for Wireless Systems
- Wireless & Security Camera Systems



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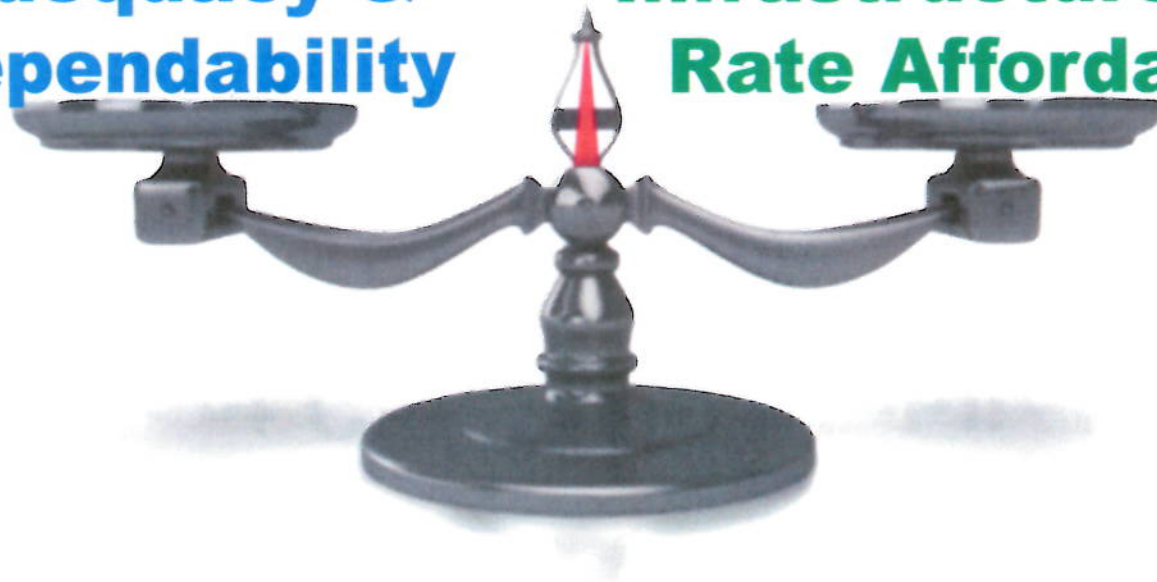
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Board of Water Supply
City and County of Honolulu

**Water Service
Adequacy &
Dependability**

**Infrastructure Costs
Rate Affordability**



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City and County of Honolulu

FY 2016 Operating and Capital Improvement Program Budget Summary

	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
Operating Budget	\$186,979,296	---	---	---	\$186,979,296
Capital Improvement Program Budget	\$61,529,290	\$3,650,000	\$15,510,000	\$2,978,210	\$83,667,500
Total	\$248,508,586	\$3,650,000	\$15,510,000	\$2,978,210	\$270,646,796



WATER FOR LIFE

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



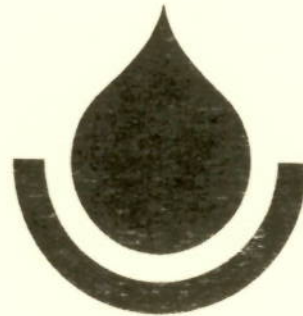
Board of Water Supply
City and County of Honolulu

Questions



BOARD OF WATER SUPPLY

City and County of Honolulu
Honolulu, Hawaii



2016 BUDGET

For the Fiscal Year
Beginning July 1, 2015 and
Ending June 30, 2016

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

OPERATING AND CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET

2016 BUDGET

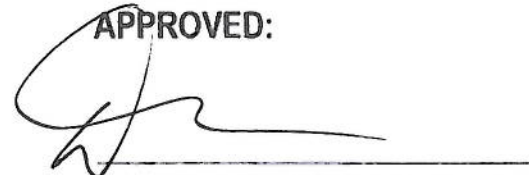
**For the Fiscal Year beginning
July 1, 2015 and ending June 30, 2016**

SUBMITTED BY:



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

APPROVED:



**DUANE R. MIYASHIRO, Chair
May 26, 2015**

BOARD OF WATER SUPPLY
City and County of Honolulu

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May 26, 2015

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

Ladies and Gentlemen:

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, 2015 to June 30, 2016.

FINANCIAL PLAN

The proposed Operating Budget for FY 2016 is based upon total operating fund resources of \$276.1 million, to be derived from operating revenues of \$219.2 million and an estimated carryover balance from FY 2015 of \$56.9 million. The carryover balance results from the estimated operating fund balance that is unappropriated. The unappropriated fund balance is composed of a minimum fund reserve required to maintain its recommended debt service coverage of \$36 million and a carryover balance of \$20.9 million. The proposed operating fund expenditure allocations are \$186.9 million for operating expenses and \$61.5 million for the Capital Improvement Program (CIP). A projected ending balance of \$27.7 million will be unappropriated.

The proposed Capital Improvement Program budget totals \$83.7 million, to be funded by \$61.5 million from the Operating Fund; \$3.7 million from the Special Expendable Fund; \$15.5 million from the State Revolving Fund; and \$3.0 million from the Reserve Release Fund.

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 2016, we are projecting total revenues of \$219.2 million; which is \$1.6 million or 0.7 percent more than total revenues budgeted for FY 2015. Total revenues will increase by only 0.7 percent even though a 9.65 percent rate increase is scheduled for FY 2016; this is due to the decreasing trend in water consumption and demand elasticity due to the rate change.

	FY 2014	FY 2015	FY 2016	Percent Change
<u>Revenue Sources</u>	<u>Actual</u>	<u>Budgeted</u>	<u>Budgeted</u>	<u>FY 2016 over FY 2015</u>
Metered Sales:				
Potable and Non-potable Water	185,708,376	205,845,945	206,577,000	0.4%
Recycled Water	5,359,761	5,789,152	5,568,360	-3.8%
Other Revenues	<u>5,814,538</u>	<u>5,998,467</u>	<u>7,056,359</u>	<u>17.6%</u>
Total Revenues	<u>196,882,675</u>	<u>217,633,564</u>	<u>219,201,719</u>	<u>0.7%</u>

Metered Sales – Potable Water and Non-Potable

Potable and non-potable water sales at \$206.6 million are projected to increase by 0.4 percent over the FY 2015 budgeted amount. This increase is primarily due to a rate adjustment offset by a decreasing trend in potable water consumption.

Metered Sales – Recycled Water

Recycled water sales at \$5.6 million is projected to decrease by 3.8 percent when compared to the FY 2015 budgeted amounts.

Other Revenues

Other Revenues of \$7.1 million will be \$1.1 million higher than the FY 2015 budgeted amount due to an anticipated increase in interest income of \$800 thousand. Interest income is interest revenue earned on the Board's investments.

B. EXPENDITURES

The proposed total operating expenditures for FY 2016 are budgeted at \$248.5 million. This represents an increase of \$8.7 million, or 3.6 percent more than the amount budgeted for the current fiscal year. This change is primarily attributable to increases in funding for materials, supplies and services of \$4.4 million; increase in funding for personnel services of \$2.9 million; an increase in operating fund requirements for the Capital Improvement Program of \$1.1 million; an increase in funding for fixed charges of \$440 thousand and an increase in funding for debt service of \$106 thousand. These increases are offset by a decrease in funding for general plant and equipment of \$110 thousand.

Highlights of the proposed Operating Budget for FY 2016 are presented following the next table.

Summary of Proposed Operating Budget, by Major Cost Categories

<u>Major Cost Categories</u>	<u>FY 2014</u>	<u>% of</u>	<u>FY 2015</u>	<u>% of</u>	<u>FY 2016</u>	<u>% of</u>	<u>FY 2016 over FY 2015</u>	
	<u>Actual</u>	<u>Total</u>	<u>Budgeted</u>	<u>Total</u>	<u>Budgeted</u>	<u>Total</u>	<u>Amount</u>	<u>Percent</u>
Personnel Services	32,985,763	16.1%	43,930,662	18.3%	46,790,064	18.8%	2,859,401	6.5%
Materials, Supplies, and Services	34,647,679	16.9%	50,293,381	21.0%	54,691,932	22.0%	4,398,552	8.7%
Equipment	2,009,981	1.0%	3,556,638	1.5%	3,446,500	1.4%	-110,138	-3.1%
Debt Service	22,047,439	10.7%	23,205,000	9.7%	23,311,000	9.4%	106,000	0.5%
Fixed Charges	<u>50,603,656</u>	<u>24.7%</u>	<u>58,299,800</u>	<u>24.3%</u>	<u>58,739,800</u>	<u>23.6%</u>	<u>440,000</u>	<u>0.8%</u>
 Total Operating Expenditures	 142,294,518	 69.3%	 179,285,481	 74.8%	 186,979,296	 75.2%	 7,693,815	 4.3%
 Transfer to Capital Improvement Program	 62,977,695	 30.7%	 60,476,300	 25.2%	 61,529,290	 24.8%	 1,052,990	 1.7%
 Total Expenditures	 <u>205,272,213</u>	 <u>100.0%</u>	 <u>239,761,781</u>	 <u>100.0%</u>	 <u>248,508,586</u>	 <u>100.0%</u>	 <u>8,746,805</u>	 <u>3.6%</u>

Personnel Services

The proposed personnel services budget of \$46.8 million is \$2.9 million or 6.5 percent more than personnel services budgeted for the current year. This increase is primarily due to the funding for additional positions and wage and salary adjustments due to the collective bargaining agreements which will become effective in fiscal year 2016.

Materials, Supplies and Services (MS&S)

The proposed MS&S budget of \$54.7 million is \$4.4 million or 8.7 percent more than the expenditures budgeted for the current year. This is primarily due to an increase in funding in contractual services to support the Customer Information System (CIS) \$2.1 million; additional funding for the meter replacement program \$1.2 million; an increase in funding the Automatic Meter Reading (AMR) program \$1.08 million. An increase in funding is also being programmed for outside legal services \$1.0 million. Funding is also being programmed in FY 2016 for a Customer Care Quality Assurance Program \$200 thousand and additional funds are also being budgeted for various studies in climatic change vulnerability, rainfall and transpiration \$222 thousand. These increases are offset by a decrease in funding for repairs to the Honouliuli Recycled Water Facility.

Equipment

The proposed equipment budget of \$3.4 million is \$110 thousand or 3.1 percent less than the amount budgeted in FY 2015. This net decrease is due to lower equipment needs in various divisions for fiscal year 2016 offset by an increase in equipment due to the expansion of the BWS vehicle fleet \$390 thousand and additional funds are being programmed for the initial phase of the modernization of the departments office workstations primarily in the Public Service Building and Engineering Building \$295 thousand.

Debt Service

The total debt service requirement for FY 2016 is \$23.3 million which is \$106 thousand or 0.5 percent more than the amount budgeted in FY 2015. The debt service for bonds payable is \$2.6 million less than the amount budgeted in FY 2015. This decrease is due to the refinancing of the department's bonds payable. This decrease is offset by an increase in the debt service for notes payable. \$2.7 million more is budgeted than in FY 2015. This increase is due to the department capitalizing on the low interest rates offered through the State of Hawaii/DOH State Revolving Fund and using it to retire higher interest debt.

Fixed Charges

The proposed fixed charges budget of \$58.7 million is \$440 thousand, or 0.8 percent more than the amount budgeted for the current year. This increase is from additional funding requirements for the unfunded liability of the EUTF Health Fund post-employment costs \$500 thousand; the department's contribution to the Hawaii State Employee Retirement System \$492 thousand and an increase in the department's FICA contributions \$360 thousand. These increases are offset by a decrease in the amount budgeted for electricity costs in powering the department's pumping and storage facilities.

PART II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET

A CIP budget of \$83.7 million is proposed for FY 2016 to be funded as follows: Operating Fund - \$61.5 million; Special Expendable Fund - \$3.7 million; the State Revolving Fund - \$15.5 million and the Reserve Release Fund - \$3.0 million.

Highlights of the proposed CIP for next year include funds for the renewal and replacement of various BWS pipelines, facilities and pumping stations(\$51.4 million),

The CIP cost categories and project descriptions are summarized starting on page CIP 1.

Respectfully submitted,



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



SUMMARY OF ALL FUNDS

OPERATING BUDGET

CAPITAL IMPROVEMENT PROGRAM
BUDGET

Board of Water Supply
Summary of All Funds
Operating Fund, Special Expandable Fund, State Revolving Fund and Reserve Release Fund
Fiscal Year 2016

	Operating Fund	Special Expandable Fund	State Revolving Fund	Reserve Release Fund	Total All Funds by Program
Operating Budget	186,979,296	-	-		186,979,296
Capital Improvement Program	61,529,290	3,650,000	15,510,000	2,978,210	83,667,500
Total by Fund	248,508,586	3,650,000	15,510,000	2,978,210	270,646,796

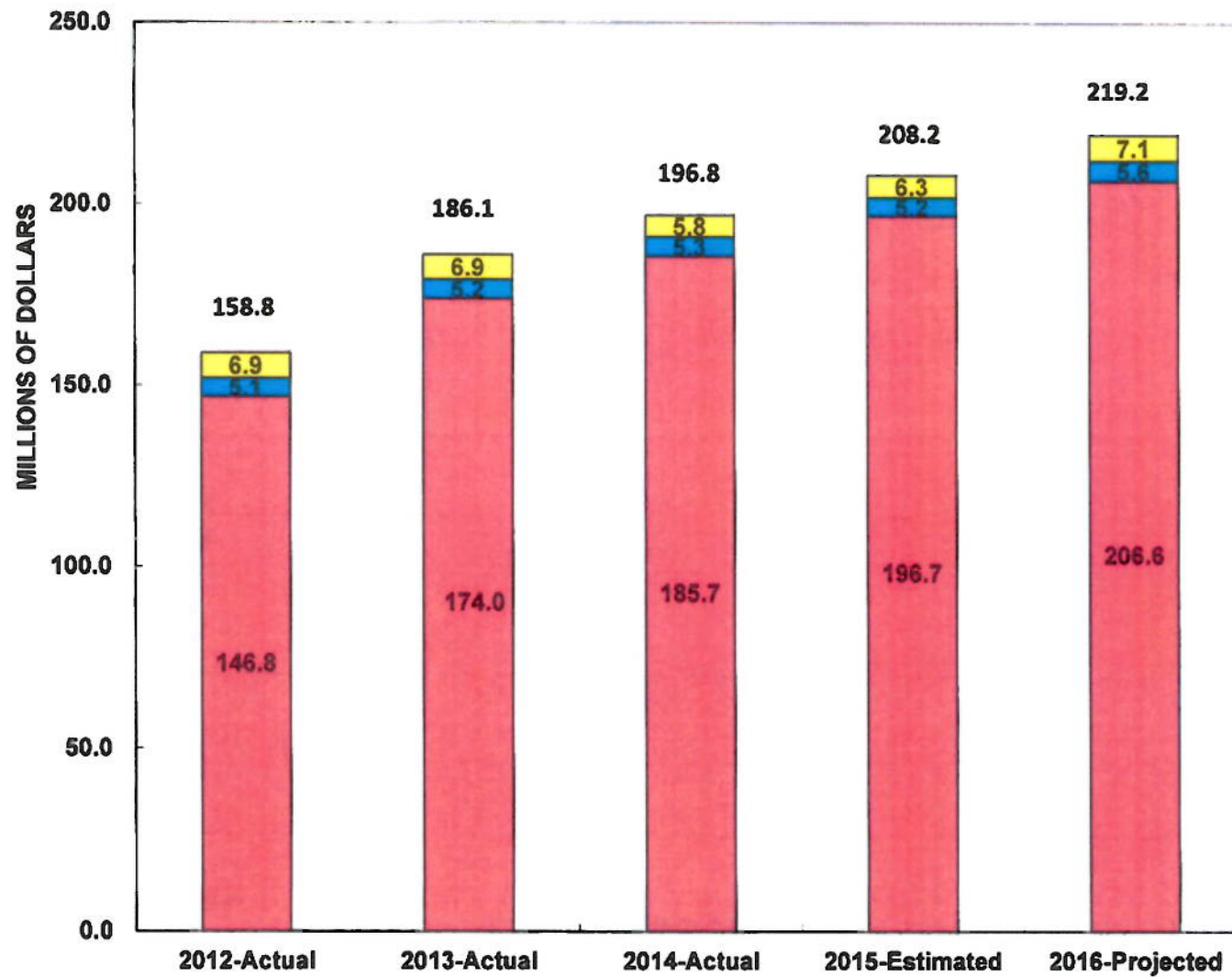
I. OPERATING BUDGET

Graphs	GR-1
Resources and Expenditures	OP-1
Revenues	OP-3
Expenditure Classification – Department Summary	OP-5
Expenditures by Major Program and/or Activity:	
Debt Service	OP-14
Departmental Fixed Charges	OP-16
Office of the Manager and Chief Engineer	OP-18
Executive Support Office	OP-20
Communications Office	OP-32
Ocean Cooling	OP-34
Human Resources Office	OP-36
Water Quality Division	OP-38
Customer Care Division	OP-46
Land Division	OP-60
Water Resources Division	OP-62
Field Operations Division	OP-78
Capital Projects Division	OP-98
Water Systems Operations Division	OP-110
Information Technology Division	OP-132
Finance Division	OP-142

II. CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET

Summary	CIP-SUMMARY
CIP Project Details	CIP-1

OPERATING FUND REVENUES

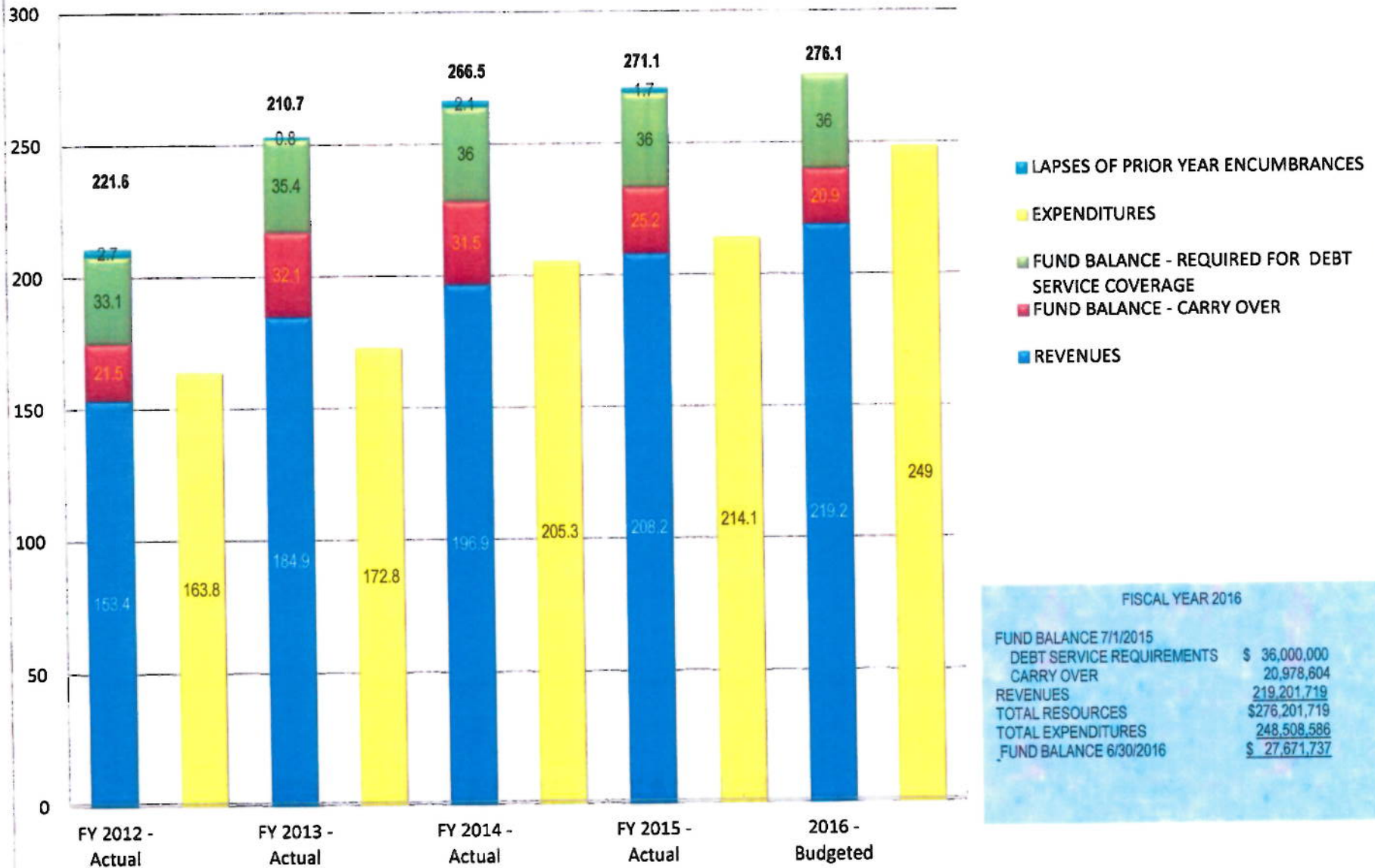


Fiscal Year 2016

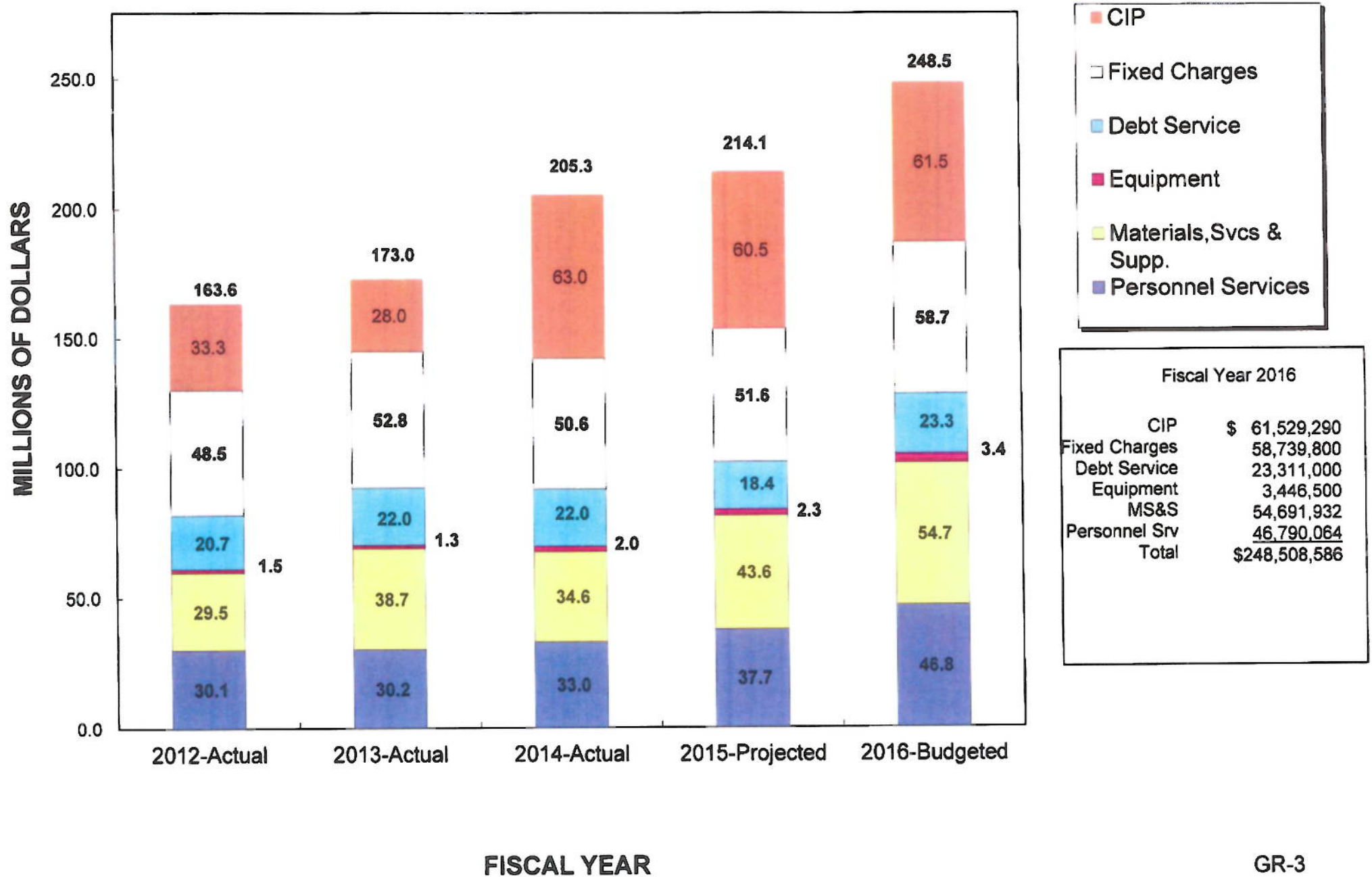
Metered Sales - Potable & Non-Potable	\$ 206,577,000
Metered Sales - Recycled	5,568,360
Other Revenues	<u>7,056,359</u>
Total Revenues	\$ 219,201,719

TOTAL RESOURCES VS. TOTAL EXPENDITURES

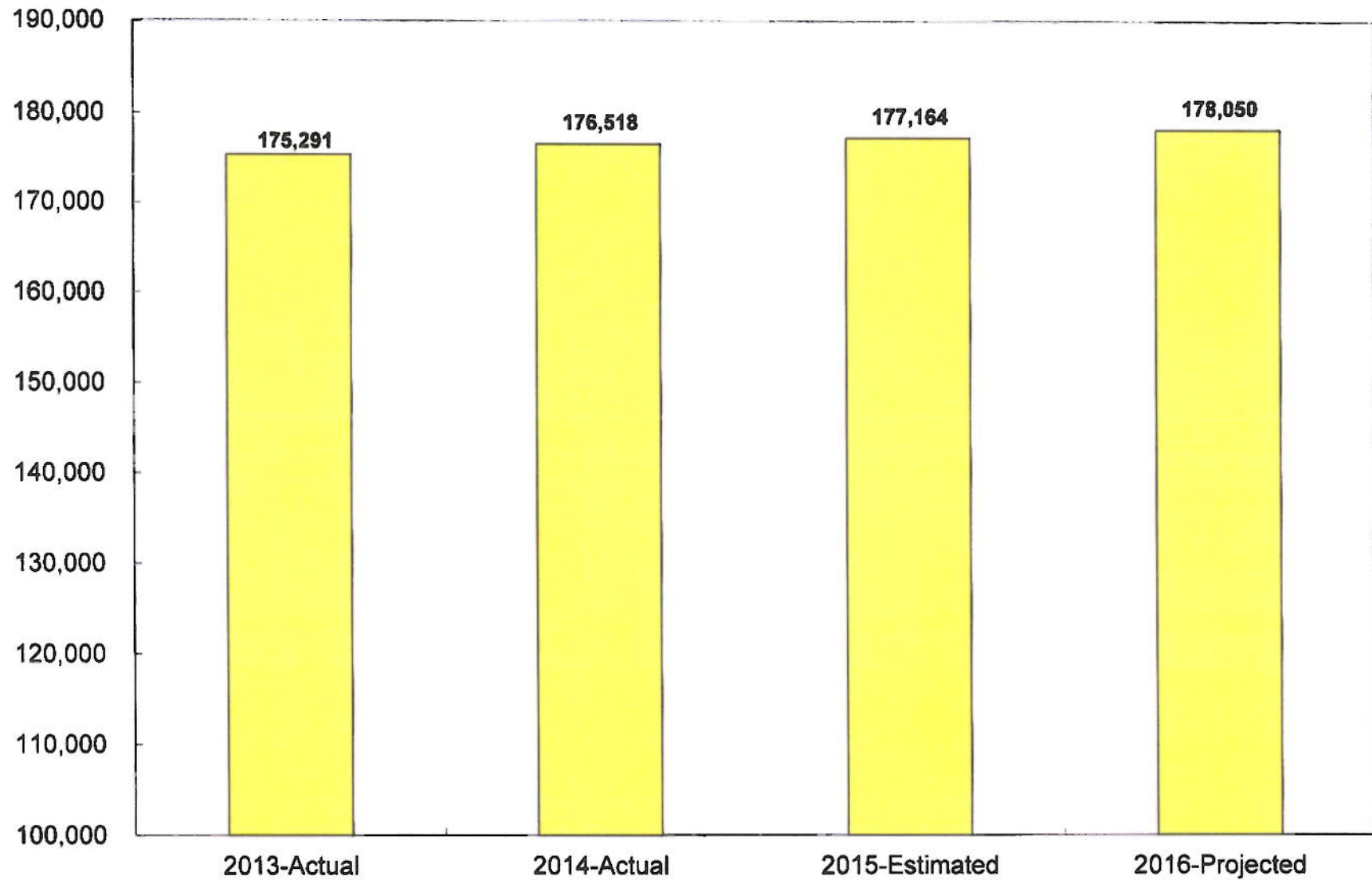
(millions of dollars)



OPERATING FUND EXPENDITURES



NUMBER OF CUSTOMERS



FISCAL YEAR



PART I

OPERATING BUDGET

**Board of Water Supply
Operating Budget
Fiscal Year 2016**

DEPARTMENT SUMMARY

RESOURCES AND EXPENDITURES	FY 2014	FY 2015		FY 2016
	Actual	Budget	Estimated	Budget
BEGINNING BALANCE	67,504,598	46,320,753	61,202,831	56,978,604
Revenues	196,882,675	217,633,564	208,179,590	219,201,719
Transfer from City	-	-	-	-
Transfer from Special Expendable Fund	-	-	-	-
Lapses/Adjustments	2,087,770	-	1,690,123	-
Total Resources	266,475,043	263,954,317	271,072,544	276,180,323
Operating Expenditures	142,294,518	179,285,481	153,617,640	186,979,296
Capital Program	62,977,695	60,476,300	60,476,300	61,529,290
Total Expenditures	205,272,213	239,761,781	214,093,940	248,508,586
ENDING BALANCE	61,202,831	24,192,536	56,978,604	27,671,737

**Board of Water Supply
Operating Budget
Fiscal Year 2016**

DEPARTMENT SUMMARY

REVENUES	FY 2014	FY 2015		FY 2016
	Actual	Budget	Estimated	Budget
Metered Sales - Potable and Non-Potable	185,708,376	205,845,945	196,740,000	206,577,000
Metered Sales - Recycled	5,359,761	5,789,152	5,184,489	5,568,360
Automatic Fire Sprinkler Charges	539,950	570,000	580,000	570,000
Ocean Cooling	1,250,715	896,367	923,351	924,659
Other Water Revenues	1,574,411	917,100	932,750	932,700
Revenues from Installations	274,815	950,000	980,000	950,000
Merchandising and Jobbing	243,967	200,000	160,000	200,000
Interest Income	1,532,596	2,200,000	2,200,000	3,000,000
Miscellaneous Non-Operating Revenue	202,973	75,000	289,000	289,000
Non-Operating Rental Income	195,111	190,000	190,000	190,000
TOTAL	196,882,675	217,633,564	208,179,590	219,201,719

**Board of Water Supply
Operating Budget
Fiscal Year 2016**

DEPARTMENT SUMMARY

Expenditure Classification	FY 2014	FY 2015		FY 2016
	Actual	Budget	Estimated	Budget
Personnel Services	32,985,763	43,930,662	37,731,923	46,790,064
Materials, Supplies and Services	34,647,679	50,293,381	43,578,470	54,691,932
Equipment	2,009,981	3,556,638	2,271,100	3,446,500
Debt Service	22,047,439	23,205,000	18,419,000	23,311,000
Departmental Fixed Charges	50,603,656	58,299,800	51,617,147	58,739,800
SUBTOTAL - OPERATING EXPENDITURES	142,294,518	179,285,481	153,617,640	186,979,296
Transfer to Capital Program	62,977,695	60,476,300	60,476,300	61,529,290
TOTAL EXPENDITURES	205,272,213	239,761,781	214,093,940	248,508,586

**Board of Water Supply
Operating Budget
Fiscal Year 2016**

DEPARTMENT SUMMARY BY DIVISION / OFFICE

Expenditures (Personnel Services; Materials, Supplies & Services and Equipment)	FY 2014	FY 2015		FY 2016
	Actual	Budget	Estimated	Budget
Office of the Manager and Chief Engineer	817,752	1,018,510	801,105	1,186,474
Executive Support Office	3,220,921	4,740,855	4,101,150	6,540,614
Communications Office	700,834	894,093	787,169	1,090,124
Ocean Cooling	642,812	647,808	446,008	647,808
Water Quality	1,878,000	2,245,350	2,218,677	2,594,852
Customer Care	4,577,110	5,191,639	4,754,290	5,581,926
Water Resources	7,883,000	12,164,799	9,064,382	10,489,124
Land	293,738	835,332	671,672	751,956
Field Operations	17,415,449	25,418,873	23,677,875	29,440,606
Capital Projects	5,661,022	8,113,065	7,305,490	7,517,770
Water Systems Operations	12,479,000	17,538,764	14,116,397	17,584,573
Information Technology	7,182,084	11,454,092	8,865,000	13,647,239
Human Resources	1,373,102	2,142,247	1,915,730	2,280,120
Finance	5,518,599	5,375,254	4,856,548	5,575,309
TOTAL OF DIVISIONS & OFFICES	69,643,423	97,780,681	83,581,493	104,928,496
Debt Service	22,047,439	23,205,000	18,419,000	23,311,000
Departmental Fixed Charges	50,603,656	58,299,800	51,617,147	58,739,800
TOTAL OPERATING EXPENDITURES	142,294,518	179,285,481	153,617,640	186,979,296

**Board of Water Supply
Operating Budget
Fiscal Year 2016**

DEPARTMENT SUMMARY

Expenditure Classification	FY 2014 Actual	FY 2015 Budget	Estimated	FY 2016 Budget
PERSONNEL SERVICES (NO. OF POSITIONS)				
	(6)	(7)	(5)	(7)
Office of the Manager and Chief Engineer	590,623	728,599	563,684	742,484
	(12)	(18)	(15)	(19)
Executive Support Office	453,120	954,210	751,776	1,065,155
	(9)	(10)	(9)	(11)
Communications Office	496,190	577,818	631,663	715,724
	(1)	(1)	(1)	(1)
Ocean Cooling	220,008	220,008	220,008	220,008
	(16)	(21)	(17)	(24)
Water Quality	958,000	1,227,710	1,045,970	1,437,722
	(86)	(89)	(82)	(87)
Customer Care	4,175,727	4,266,189	4,086,540	4,405,447
	(30)	(38)	(28)	(36)
Water Resources	1,803,000	2,401,914	1,869,482	2,350,895
	(5)	(5)	(5)	(5)
Land	255,997	293,532	286,952	309,936
	(210)	(255)	(228)	(267)
Field Operations	10,766,530	14,944,073	13,497,565	16,370,606
	(49)	(66)	(53)	(66)
Capital Projects	3,677,824	4,644,015	4,223,866	4,831,920
	(70)	(106)	(87)	(115)
Water Systems Operations	4,240,000	6,326,464	4,990,936	6,908,573
	(35)	(54)	(37)	(54)
Information Technology	2,380,587	3,728,800	2,597,965	3,867,764
	(8)	(10)	(9)	(10)
Human Resources	423,957	529,877	491,468	589,220
	(58)	(66)	(51)	(56)
Finance	2,544,200	3,087,454	2,474,048	2,974,609
(NO. OF POSITIONS)	(595)	(745)	(628)	(758)
TOTAL PERSONNEL SERVICES	32,985,763	43,930,662	37,731,923	46,790,064

**Board of Water Supply
Operating Budget
Fiscal Year 2016**

DEPARTMENT SUMMARY

Expenditure Classification	FY 2014	FY 2015		FY 2016
	Actual	Budget	Estimated	Budget
MATERIALS, SUPPLIES AND SERVICES				
Office of the Manager and Chief Engineer	227,129	289,911	237,421	443,990
Executive Support Office	2,759,801	3,786,645	3,349,374	5,180,059
Communications Office	204,644	316,275	155,506	374,400
Ocean Cooling	422,804	427,800	226,000	427,800
Water Quality	920,000	882,640	1,037,907	1,076,030
Customer Care	401,383	875,450	617,750	1,156,479
Water Resources	5,961,000	9,716,745	7,149,900	8,098,229
Land	37,741	541,800	384,720	442,020
Field Operations	6,648,919	10,225,400	10,140,310	13,070,000
Capital Projects	1,983,198	3,269,050	3,081,624	2,685,850
Water Systems Operations	6,840,000	9,152,200	7,584,261	8,115,900
Information Technology	4,352,516	6,994,294	5,824,935	9,364,575
Human Resources	949,145	1,612,370	1,424,262	1,690,900
Finance	2,939,399	2,202,800	2,364,500	2,565,700
TOTAL MATERIALS, SUPPLIES AND SERVICES	34,647,679	50,293,381	43,578,470	54,691,932

**Board of Water Supply
Operating Budget
Fiscal Year 2016**

DEPARTMENT SUMMARY

Expenditure Classification	FY 2014 Actual	Budget	FY 2015 Estimated	FY 2016 Budget
EQUIPMENT				
Office of the Manager and Chief Engineer	-	-	-	-
Executive Support Office	8,000	-	-	295,400
Communications Office	-	-	-	-
Ocean Cooling	-	-	-	-
Water Quality	-	135,000	134,800	81,100
Customer Care	-	50,000	50,000	20,000
Water Resources	119,000	46,140	45,000	40,000
Land	-	-	-	-
Field Operations	-	249,400	40,000	-
Capital Projects	-	200,000	-	-
Water Systems Operations	1,399,000	2,060,100	1,541,200	2,560,100
Information Technology	448,981	730,998	442,100	414,900
Human Resources	-	-	-	-
Finance	35,000	85,000	18,000	35,000
TOTAL EQUIPMENT	2,009,981	3,556,638	2,271,100	3,446,500

Bond Issues

Year Issued	Amount (\$)	Year Expires	Years
2006	\$213,805,000	2036	30
2012A	\$85,195,000	2033	21
2014A	\$101,655,000	2036	22
2014B	\$43,330,000	2031	17

**Board of Water Supply
Operating Budget
Fiscal Year 2016**

DEBT SERVICE

Expenditure Classification	FY 2014 Actual	FY 2015 Budget	FY 2015 Estimated	FY 2016 Budget
Water System Revenue Bonds				
Series 2004	2,563,600	2,465,000	-	-
Series 2006	13,200,428	13,316,000	6,695,000	6,700,000
Series 2012	4,749,275	4,748,000	4,748,000	4,746,000
Series 2014 A&B		-	3,958,000	6,447,000
DEBT SERVICE - BONDS PAYABLE	20,513,303	20,529,000	15,401,000	17,893,000
SRF Loans	1,534,136	2,676,000	3,018,000	5,418,000
DEBT SERVICE - NOTES PAYABLE	1,534,136	2,676,000	3,018,000	5,418,000
DEBT SERVICE REQUIREMENTS	22,047,439	23,205,000	18,419,000	23,311,000

Section's Activity

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

Departmental Fixed Charges

- 4610 Cost of power charged by Hawaiian Electric Company for pumping facilities
- 4620 Consolidation of all electricity charges for administrative and support facilities.
- 5600 Central Administrative Service Expenses (CASE) fee paid to the City & County of Honolulu.
- 6010 Actual requirements per Employees' Retirement System resolution
- 6100 Hawaii Employer-Union Trust Fund Health Benefits costs and past service liabilities for employees.
- 6200 Hawaii Employer-Union Trust Fund Health Benefits costs and past service liabilities for retirees.
- 6250 Hawaii Employer-Union Trust Fund Health Benefits post-employment unfunded liability

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

5990 - FIXED CHARGES AND DEBT SERVICE

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
7071	BOND INTEREST	12,883,072	12,689,000	7,674,000	10,023,000
1810	BOND PRINCIPAL	9,164,367	10,516,000	10,745,000	13,288,000
	TOTAL DEBT SERVICE	22,047,439	23,205,000	18,419,000	23,311,000
	DEPARTMENTAL FIXED CHGS				
4610	ELECTRIC POWER-PLANTS	26,402,945	31,000,000	25,183,553	30,000,000
4620	ELECTRICITY	1,742,242	1,700,000	1,491,390	1,700,000
4660	SEWER SERVICE CHARGE	102,651	112,800	90,783	112,800
5600	CASE FEES	3,300,000	3,300,000	3,300,000	3,300,000
6010	RETIREMENT SYSTEM-NORMAL	5,116,679	5,208,000	5,509,544	5,700,000
6020	FICA CONTRIBUTIONS	2,361,352	2,400,000	2,438,609	2,760,000
6100	HEALTH BENEFITS-EMPLOYEES	2,500,075	2,904,000	2,919,613	3,000,000
6200	HEALTH BENEFITS-RETIREEES	5,046,667	5,720,000	4,737,647	5,712,000
6250	HEALTH FUND POST-EMPLOYMENT COSTS	3,934,333	5,900,000	5,900,000	6,400,000
6320	UNEMPLOYMENT INSUR BENEFITS	96,713	55,000	46,008	55,000
1570	MISC /REFUNDS	-	-	-	-
	TOTAL FIXED CHARGES	50,603,656	58,299,800	51,617,147	58,739,800

Office's Activity

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

Materials, Supplies and Services

4255 Board of Directors expenses

4270 Corporation Counsel services.

4720 Conference and travel expenses for BWS personnel.

4910 AWWA RF subscription, AWWA membership dues, and other miscellaneous dues.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

5100 - OFFICE OF THE MANAGER AND CHIEF ENGINEER

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	590,623	728,599	563,684	742,484
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	590,623	728,599	563,684	742,484
	TOTAL POSITIONS	6	7	5	7
4250	OTHER CONTRACTUAL SERVICE	8,523	4,260	1,553	3,540
4255	OTHER SERVICES	5,230	44,400	7,638	42,836
4260	ADV & PUBL OF NOTICES	2,383	500	-	500
4265	PRINTING	1,884	1,000	740	1,000
4267	PRINTED FORMS	-	-	503	-
4270	PROFESSIONAL SERVICES	32,215	34,093	41,824	155,000
4430	MISC SUPPLIES	3,288	5,000	3,688	5,000
4460	OTHER MATERIALS & SUPPLIE	818	925	234	13,400
4500	EDUCATION & TRAINING	75	1,000	1,974	1,000
4720	CONFERENCE EXPENSES	13,631	33,321	15,921	45,781
4815	REPAIR AND MAINT OF EQUIP	1,079	3,000	1,699	3,000
4910	MISC FEES & REGISTRATIONS	158,003	162,412	161,647	170,433
8050	EQUIPMENT UNDER \$5,000	-	-	-	2,500
	TOTAL MATERIAL & SUPPLIES	227,129	289,911	237,421	443,990
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	817,752	1,018,510	801,105	1,186,474

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.

Details of expenditures are shown in each section.

EXECUTIVE SUPPORT OFFICE - TOTAL

BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	448,514	930,210	742,263	1,061,087
4120	OVERTIME	4,606	24,000	9,513	4,068
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	453,120	954,210	751,776	1,065,155
	TOTAL POSITIONS	12	18	15	19
4160	MEALS, MILEAGE, UNIFORM A	772	2,400	1,220	2,700
4250	OTHER CONTRACTUAL SERVICE	862,942	888,720	948,362	1,207,320
4260	ADV & PUBL OF NOTICES	1,972	-	-	-
4265	PRINTING	-	4,000	3,500	3,500
4270	PROFESSIONAL SERVICES	358,352	650,000	350,000	1,700,000
4430	MISC SUPPLIES	4,966	9,500	7,864	12,110
4440	MOTOR VEHICLE PARTS & ACC	-	-	80	-
4460	OTHER MATERIALS & SUPPLIE	20,571	16,950	9,463	9,704
4480	POSTAGE	-	400	-	400
4500	EDUCATION & TRAINING	2,080	12,000	191	12,000
4720	CONFERENCE EXPENSES	2,547	46,000	3,253	18,500
4805	REPAIR AND MAINT OF STRUC	-	75,000	2,380	100,000
4815	REPAIR AND MAINT OF EQUIP	16,000	52,000	-	75,000
4910	MISC FEES & REGISTRATIONS	8,870	4,000	500	5,000
4915	MISCELLANEOUS FINANCIAL E	-	-	13,860	-
5700	LIABILITY INSURANCE POLICIES	1,001,754	1,200,000	1,200,000	1,200,000
6350	CLAIMS FOR PERS INJ & PROP DAMAGE	476,856	800,000	799,884	800,000
8050	EQUIPMENT UNDER \$5,000	2,119	25,675	8,897	33,825
	TOTAL MATERIAL & SUPPLIES	2,759,801	3,786,645	3,349,454	5,180,059
1270	GENERAL PLANT & EQUIPMENT	8,000	-	-	295,400
	TOTAL EQUIPMENT	8,000	-	-	295,400
	TOTAL OPERATING EXPENDITURES	3,220,921	4,740,855	4,101,230	6,540,614

Section's Activity

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

Materials, Supplies and Services

4250 Consultant services to upgrade the department's budget system and a water rate study peer review.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

**EXECUTIVE SUPPORT OFFICE
5105 - ESO ADMINISTRATION**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	-	150,444	109,439	146,957
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	-	150,444	109,439	146,957
	TOTAL POSITIONS	-	3	2	2
4250	OTHER CONTRACTUAL SERVICE	-	50,720	142	300,000
4270	PROFESSIONAL SERVICES	-	-	-	-
4430	MISC SUPPLIES	-	6,000	2,674	4,500
4500	EDUCATION & TRAINING	-	1,000	-	1,000
4720	CONFERENCE EXPENSES	-	12,000	-	8,000
4910	MISC FEES & REGISTRATIONS	-	1,000	-	1,000
4915	MISCELLANEOUS FINANCIAL E	-	-	13,860	-
8050	EQUIPMENT UNDER \$5,000	-	5,600	-	-
	TOTAL MATERIAL & SUPPLIES	-	76,320	16,676	314,500
1270	GENERAL PLANT & EQUIPMENT	-	-	-	295,400
	TOTAL EQUIPMENT	-	-	-	295,400
	TOTAL OPERATING EXPENDITURES	-	226,764	126,115	756,857

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. Additionally, we ensure the safety and well - being of our employees through a comprehensive safety program and return-to-work program.

Materials, Supplies and Services

- 4270 Outside legal counsel; reimbursement to City Corporation Counsel for legal counsel position
- 5700 Insurance coverage for commercial general liability, fire and extended coverage, workers' compensation, public officials liability and underground storage tanks.
- 6350 Claims against the department for personal injuries and property damages.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

**EXECUTIVE SUPPORT OFFICE
5110 - RISK MANAGEMENT SECTION**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	111,374	214,950	127,130	242,700
4120	OVERTIME	3,606	5,500	2,710	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	114,980	220,450	129,840	242,700
	TOTAL POSITIONS	3	4	3	5
4160	MEALS, MILEAGE, UNIFORM A	702	1,200	798	1,200
4250	OTHER CONTRACTUAL SERVICE	300,942	-	370	-
4270	PROFESSIONAL SERVICES	358,352	650,000	350,000	1,700,000
4430	MISC SUPPLIES	928	-	4,202	4,000
4460	OTHER MATERIALS & SUPPLIE	46	-	4,259	4,000
4500	EDUCATION & TRAINING	80	4,000	-	4,000
4720	CONFERENCE EXPENSES	1,547	12,000	2,405	8,000
4815	REPAIR AND MAINT OF EQUIP	-	2,000	-	-
4910	MISC FEES & REGISTRATIONS	8,870	2,200	-	4,000
5700	LIABILITY INSURANCE POLICIES	1,001,754	1,200,000	1,200,000	1,200,000
6350	CLAIMS FOR PERS INJ & PROP DAMAGE	476,856	800,000	799,884	800,000
8050	EQUIPMENT UNDER \$5,000	179	1,500	-	15,500
	TOTAL MATERIAL & SUPPLIES	2,150,256	2,672,900	2,361,998	3,740,700
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	2,265,236	2,893,350	2,491,838	3,983,400

Section's Activity

The Security section develops, coordinates, and maintains security measures and systems to protect BWS employees and facilities. It conducts vulnerability assessments, installs detection systems, and develops emergency response plans. 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 and Oahu Civil Defense, and other Homeland Security organizations.

Materials, Supplies and Services

4250 Private security guard services and document shredding services.

4815 Maintenance of access control systems; emergency repair, replacement and installation of security measures

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

**EXECUTIVE SUPPORT OFFICE
5120 - SECURITY**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	129,000	119,388	150,895	186,774
4120	OVERTIME	1,000	3,500	6,774	4,068
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	130,000	122,888	157,669	190,842
	TOTAL POSITIONS	4	3	4	4
4160	MEALS, MILEAGE, UNIFORM A	-	1,000	422	1,500
4250	OTHER CONTRACTUAL SERVICE	562,000	838,000	947,850	907,320
4430	MISC SUPPLIES	4,000	1,500	568	1,610
4460	OTHER MATERIALS & SUPPLIE	20,000	16,950	5,023	5,704
4500	EDUCATION & TRAINING	2,000	3,000	191	3,000
4720	CONFERENCE EXPENSES	1,000	6,000	848	2,000
4805	REPAIR AND MAINT OF STRUC	-	75,000	2,380	100,000
4810	REPAIR AND MAINT OF RECYC	-	-	-	-
4815	REPAIR AND MAINT OF EQUIP	16,000	50,000	-	75,000
8050	EQUIPMENT UNDER \$5,000	1,000	13,575	7,563	15,825
	TOTAL MATERIAL & SUPPLIES	606,000	1,005,025	964,845	1,111,959
1270	GENERAL PLANT & EQUIPMENT	8,000	-	-	-
	TOTAL EQUIPMENT	8,000	-	-	-
	TOTAL OPERATING EXPENDITURES	744,000	1,127,913	1,122,514	1,302,801

Section's Activity

The Management and Budget section is responsible for the development and execution of the annual department's operating budget. Administers water rates and charges and coordinates water rate studies, develops water and other revenue projections and conducts various revenue, budgetary, financial and statistical studies of the department. This section also serves as the departmental coordinator for all proposed legislation each legislative session.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

**EXECUTIVE SUPPORT OFFICE
5125 - MANAGEMENT AND BUDGET SECTION**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	-	191,472	81,771	219,504
4120	OVERTIME	-	-	28	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	-	191,472	81,800	219,504
	TOTAL POSITIONS	-	3	1	3
4265	PRINTING	-	4,000	3,500	3,500
4500	EDUCATION & TRAINING	-	-	-	-
4720	CONFERENCE EXPENSES	-	6,000	-	500
4910	MISC FEES & REGISTRATIONS	-	800	500	-
8050	EQUIPMENT UNDER \$5,000	-	4,000	-	2,500
	TOTAL MATERIAL & SUPPLIES	-	14,800	4,000	6,500
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	-	206,272	85,800	226,004

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.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

**EXECUTIVE SUPPORT OFFICE
5140 - PROCUREMENT SECTION**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	208,140	253,956	273,028	265,152
4120	OVERTIME	-	15,000	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	208,140	268,956	273,028	265,152
	TOTAL POSITIONS	5	5	5	5
4160	MEALS, MILEAGE, UNIFORM A	70	200	-	-
4260	ADV & PUBL OF NOTICES	1,972	-	-	-
4430	MISC SUPPLIES	38	2,000	420	2,000
4460	OTHER MATERIALS & SUPPLIE	525	-	181	-
4480	POSTAGE	-	400	-	400
4500	EDUCATION & TRAINING	-	4,000	-	4,000
4720	CONFERENCE EXPENSES	-	10,000	-	-
8050	EQUIPMENT UNDER \$5,000	940	1,000	1,334	-
	TOTAL MATERIAL & SUPPLIES	3,545	17,600	1,935	6,400
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	211,685	286,556	274,963	271,552

Office's Activity

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

Materials, Supplies and Services

4250 PSA campaign media ; media services; design consulting fees – Fred Ohrt Museum

4260 Advertisements for special events, etc.

4265 Printing of annual report, brochures, etc.

4460 Community meetings (facility/equipment rental); BWS Christmas (Honolulu City Lights/Kapolei); annual meeting

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

5130 - COMMUNICATIONS OFFICE

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	476,799	524,568	597,696	653,424
4120	OVERTIME	19,151	50,000	14,897	28,600
4130	MISC PAYROLL COSTS	240	3,250	19,070	33,700
	TOTAL PERSONNEL SERVICES	496,190	577,818	631,663	715,724
	TOTAL POSITIONS	9	10	9	11
4160	MEALS, MILEAGE, UNIFORM A	268	1,000	260	600
4250	OTHER CONTRACTUAL SERVICE	122,633	175,690	61,443	247,400
4255	OTHER SERVICES	-	2,000	-	-
4260	ADV & PUBL OF NOTICES	19,101	13,000	3,000	3,000
4265	PRINTING	45,500	66,500	41,500	66,050
4267	PRINTED FORMS	-	-	-	-
4270	PROFESSIONAL SERVICES	-	-	-	-
4430	MISC SUPPLIES	2,625	3,100	3,126	3,100
4460	OTHER MATERIALS & SUPPLIE	13,265	46,175	35,945	35,900
4470	PARTS AND ACCESSORIES	-	-	-	-
4480	POSTAGE	266	2,500	2,500	500
4500	EDUCATION & TRAINING	398	5,000	5,000	9,500
4720	CONFERENCE EXPENSES	115	200	432	200
4815	REPAIR AND MAINT OF EQUIP	170	750	-	750
4910	MISC FEES & REGISTRATIONS	303	360	300	400
8050	EQUIPMENT UNDER \$5,000	-	-	2,000	7,000
	TOTAL MATERIAL & SUPPLIES	204,644	316,275	155,506	374,400
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	700,834	894,093	787,169	1,090,124

Program's Activity

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

Materials, Supplies and Services

4815 Chiller, chemical, and miscellaneous maintenance costs.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

5201 - OCEAN COOLING

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	220,008	220,000	220,008	220,008
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	220,008	220,000	220,008	220,008
	TOTAL POSITIONS	1	1	1	1
4250	OTHER CONTRACTUAL SERVICE	1,058	-	-	-
4255	OTHER SERVICES	-	-	-	-
4260	ADV & PUBL OF NOTICES	-	-	-	-
4430	MISC SUPPLIES	182	500	-	800
4815	REPAIR AND MAINT OF EQUIP	245,308	428,500	226,000	427,000
8050	EQUIPMENT UNDER \$5,000	1,000	-	-	-
	TOTAL MATERIAL & SUPPLIES	247,548	429,000	226,000	427,800
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	467,556	649,000	446,008	647,808

Office'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, workers compensation administration, and review of reorganizations.

Materials, Supplies and Services

- 4250 Drug and alcohol testing, employee assistance program services, fitness for duty evaluations, independent medical evaluations, workplace threat assessments and mediation services.
- 4270 Reimbursement to the C & C of Honolulu – DHR for workers compensation position.
- 4275 Workers' compensation medical reimbursements to C & C of Honolulu - DHR
- 4460 Recognition/Service awards and supplies, savings bonds, and other miscellaneous award expenses.
- 4500 In-service training sponsored by HRO, out-service training for HRO staff, DSO textbooks/manuals, tuition reimbursements, HRO library reference materials, and subscriptions to professional periodicals.
- 6340 Indemnity, wage-replacement benefits and DLIR-SCF annual assessment.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

5220 - HUMAN RESOURCES OFFICE (5870)

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	423,524	523,314	491,330	584,820
4120	OVERTIME	433	4,643	137	3,000
4130	MISC PAYROLL COSTS	-	1,920	-	1,400
	TOTAL PERSONNEL SERVICES	423,957	529,877	491,468	589,220
	TOTAL POSITIONS	8	10	9	10
4160	MEALS, MILEAGE, UNIFORM A	46	270	110	200
4250	OTHER CONTRACTUAL SERVICE	12,877	250,000	10,890	63,400
4255	OTHER SERVICES	-	-	-	-
4260	ADV & PUBL OF NOTICES	1,191	27,600	3,179	2,100
4270	PROFESSIONAL SERVICES	114,960	-	119,028	123,800
4275	MEDICAL & SURGICAL SERVIC	501,532	550,000	549,997	604,800
4430	MISC SUPPLIES	854	2,100	1,174	2,400
4460	OTHER MATERIALS & SUPPLIE	2,111	5,500	3,652	5,000
4480	POSTAGE	72	500	-	-
4500	EDUCATION & TRAINING	26,656	55,000	30,715	50,300
4720	CONFERENCE EXPENSES	75	-	-	9,500
4815	REPAIR AND MAINT OF EQUIP	626	1,800	562	1,000
4910	MISC FEES & REGISTRATIONS	-	-	3,511	400
6340	WORKERS' COMP BENEFITS	287,278	719,600	701,444	828,000
8050	EQUIPMENT UNDER \$5,000	867	-	-	-
	TOTAL MATERIAL & SUPPLIES	949,145	1,612,370	1,424,262	1,690,900
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	1,373,102	2,142,247	1,915,730	2,280,120

Division's Activity

The Water Quality Division Insure the department's compliance with all environmental laws, rules and regulations. Oversees environmental rules (SDWA, CWA and NPDES) compliance, drinking water testing and laboratory operations, manages special water quality studies and stays abreast of emerging water quality research and regulatory issues.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER QUALITY DIVISION - TOTAL

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	847,000	1,138,310	946,200	1,352,522
4120	OVERTIME	111,000	87,000	99,770	85,200
4130	MISC PAYROLL COSTS	-	2,400	-	-
	TOTAL PERSONNEL SERVICES	958,000	1,227,710	1,045,970	1,437,722
	TOTAL POSITIONS	16	21	17	24
4160	MEALS, MILEAGE, UNIFORM A	6,000	6,000	30,000	6,000
4250	OTHER CONTRACTUAL SERVICE	856,000	776,940	893,950	951,730
4260	ADV & PUBL OF NOTICES	2,000	-	-	-
4430	MISC SUPPLIES	1,000	500	13	500
4440	MOTOR VEHICLE PARTS & ACC	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	47,000	60,300	65,000	60,000
4500	EDUCATION & TRAINING	-	-	7,000	9,200
4720	CONFERENCE EXPENSES	1,000	14,200	13,944	21,300
4815	REPAIR AND MAINT OF EQUIP	1,000	6,500	8,000	9,500
4910	MISC FEES & REGISTRATIONS	-	9,000	8,000	9,400
8050	EQUIPMENT UNDER \$5,000	6,000	9,200	12,000	8,400
	TOTAL MATERIAL & SUPPLIES	920,000	882,640	1,037,907	1,076,030
1270	GENERAL PLANT & EQUIPMENT	-	135,000	134,800	81,100
	TOTAL EQUIPMENT	-	135,000	134,800	81,100
	TOTAL OPERATING EXPENDITURES	1,878,000	2,245,350	2,218,677	2,594,852

Section's Activity

Insure the department's compliance with all environmental laws, rules and regulations.

Materials, Supplies and Services

4250 Water quality monitoring studies; EPA compliance testing and modular office rentals.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER QUALITY DIVISION

5250 - WATER QUALITY ADMINISTRATION

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	145,000	171,410	254,775	400,790
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	145,000	171,410	254,775	400,790
	TOTAL POSITIONS	2	2	3	5
4160	MEALS, MILEAGE, UNIFORM A	-	-	-	-
4250	OTHER CONTRACTUAL SERVICE	2,000	100,500	84,950	185,500
4430	MISC SUPPLIES	1,000	500	13	500
4460	OTHER MATERIALS & SUPPLIE	-	300	-	300
4500	EDUCATION & TRAINING	-	-	-	200
4720	CONFERENCE EXPENSES	1,000	6,800	8,144	9,900
4815	REPAIR AND MAINT OF EQUIP	-	500	-	500
4910	MISC FEES & REGISTRATIONS	-	1,500	-	1,500
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	TOTAL MATERIAL & SUPPLIES	4,000	110,100	93,107	198,400
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	149,000	281,510	347,882	599,190

Section's Activity

The Chemical Laboratory performs required water quality testing and monitoring to conform to federal and state regulations; monitors proposed rules for departmental impact. Supports the department's operational testing requirements; conducts research on analytical techniques and testing methodologies.

Materials, Supplies and Services

4250 water quality testing; quality assurance, safety and audit

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER QUALITY DIVISION

5251 - CHEMICAL LABORATORY (5641)

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	376,000	528,372	426,023	555,648
4120	OVERTIME	30,000	23,490	26,318	25,200
4130	MISC PAYROLL COSTS	-	1,200	-	-
	TOTAL PERSONNEL SERVICES	406,000	553,062	452,342	580,848
	TOTAL POSITIONS	8	11	8	11
4160	MEALS, MILEAGE, UNIFORM A	-	3,600	-	3,600
4250	OTHER CONTRACTUAL SERVICE	773,000	535,100	569,000	624,830
4260	ADV & PUBL OF NOTICES	2,000	-	-	-
4460	OTHER MATERIALS & SUPPLIE	8,000	6,000	9,000	5,700
4500	EDUCATION & TRAINING	-	-	7,000	8,000
4720	CONFERENCE EXPENSES	-	1,300	-	-
4815	REPAIR AND MAINT OF EQUIP	1,000	2,000	2,000	5,000
4910	MISC FEES & REGISTRATIONS	-	2,500	3,000	2,900
8050	EQUIPMENT UNDER \$5,000	3,000	-	-	3,000
	TOTAL MATERIAL & SUPPLIES	787,000	550,500	590,000	653,030
1270	GENERAL PLANT & EQUIPMENT	5,000	125,000	125,000	75,000
	TOTAL EQUIPMENT	5,000	125,000	125,000	75,000
	TOTAL OPERATING EXPENDITURES	1,198,000	1,228,562	1,167,342	1,308,878

Section's Activity

The Microbiological Laboratory performs required bacteriological water quality testing and monitoring to conform to federal and state regulations; monitors proposed rules for departmental impact. Supports the department's operational testing requirements; conducts research on analytical techniques and testing methodologies.

Materials, Supplies and Services

- 4250 QA program and audit
- 4460 Routine supplies for the microbiological laboratory

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER QUALITY DIVISION

5252 - MICROBIOLOGICAL LABORATORY (5642)

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	326,000	438,528	265,401	396,084
4120	OVERTIME	81,000	63,510	73,452	60,000
4130	MISC PAYROLL COSTS	-	1,200	-	-
	TOTAL PERSONNEL SERVICES	407,000	503,238	338,854	456,084
	TOTAL POSITIONS	6	8	6	8
4160	MEALS, MILEAGE, UNIFORM A	6,000	2,400	30,000	2,400
4250	OTHER CONTRACTUAL SERVICE	81,000	141,340	147,000	141,400
4430	MISC SUPPLIES	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	39,000	54,000	55,000	54,000
4500	EDUCATION & TRAINING	-	-	-	1,000
4720	CONFERENCE EXPENSES	-	6,100	5,800	11,400
4815	REPAIR AND MAINT OF EQUIP	-	4,000	6,000	4,000
4910	MISC FEES & REGISTRATIONS	-	5,000	5,000	5,000
8050	EQUIPMENT UNDER \$5,000	3,000	9,200	12,000	5,400
	TOTAL MATERIAL & SUPPLIES	129,000	222,040	260,800	224,600
1270	GENERAL PLANT & EQUIPMENT	-	10,000	9,800	6,100
	TOTAL EQUIPMENT	-	10,000	9,800	6,100
	TOTAL OPERATING EXPENDITURES	536,000	735,278	609,454	686,784

Division's Activity

The Customer Care Division handles contacts with customers; prepares applications and contracts for water service; designs service connections; conducts the department's billing operations which includes meter reading and pre-auditing of consumer accounts; maintains accounts receivable; investigates consumers' service problems; and collects water and sewer bills. It is responsible for maintaining and repairing meters; 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.

Details of expenditure are shown in each section.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CUSTOMER CARE DIVISION- TOTAL

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	3,860,501	3,849,090	3,792,245	4,041,655
4120	OVERTIME	258,961	316,200	249,113	262,896
4130	MISC PAYROLL COSTS	56,265	100,899	45,182	100,896
	TOTAL PERSONNEL SERVICES	4,175,727	4,266,189	4,086,540	4,405,447
	TOTAL POSITIONS	86	89	82	87
4160	MEALS, MILEAGE, UNIFORM A	14,718	22,700	19,300	15,825
4220	COLLECTION FEES	267,214	660,000	437,800	468,000
4250	OTHER CONTRACTUAL SERVICE	31,904	50,800	36,200	347,300
4267	PRINTED FORMS	-	1,700	1,500	1,500
4430	MISC SUPPLIES	11,797	5,650	5,550	6,750
4460	OTHER MATERIALS & SUPPLIE	40,704	44,200	30,300	77,348
4500	EDUCATION & TRAINING	-	4,200	19,800	34,800
4720	CONFERENCE EXPENSES	-	11,700	-	9,560
4815	REPAIR AND MAINT OF EQUIP	10,255	32,400	26,700	145,009
4910	MISC FEES & REGISTRATIONS	1,320	1,600	1,600	1,900
8050	EQUIPMENT UNDER \$5,000	23,471	40,500	39,000	48,487
	TOTAL MATERIAL & SUPPLIES	401,383	875,450	617,750	1,156,479
1270	GENERAL PLANT & EQUIPMENT	-	50,000	50,000	20,000
	TOTAL EQUIPMENT	-	50,000	50,000	20,000
	TOTAL OPERATING EXPENDITURES	4,577,110	5,191,639	4,754,290	5,581,926

Section's Activity

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

Materials, Supplies and Services

4250 Consultant services for a Quality Assurance (QA) program and conducting surveys for customer satisfaction measurements.

4500 consolidated training and travel for the Customer Care Division
Various AWWA & HWWA workshops and conferences; ACE Annual Conference; etc.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CUSTOMER CARE DIVISION

5300 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	217,284	214,416	227,405	353,424
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	17,000	-	-
	TOTAL PERSONNEL SERVICES	217,284	231,416	227,405	353,424
	TOTAL POSITIONS	3	3	2	5
4250	OTHER CONTRACTUAL SERVICE	2,961	30,000	-	260,200
4430	MISC SUPPLIES	5,779	4,000	4,000	5,000
4460	OTHER MATERIALS & SUPPLIE	13,094	12,000	5,000	6,000
4500	EDUCATION & TRAINING	-	4,200	19,800	34,800
4720	CONFERENCE EXPENSES	-	11,700	-	9,560
4815	REPAIR AND MAINT OF EQUIP	516	1,200	1,200	1,200
4910	MISC FEES & REGISTRATIONS	250	-	-	300
8050	EQUIPMENT UNDER \$5,000	1,013	1,000	1,000	1,000
	TOTAL MATERIAL & SUPPLIES	23,613	64,100	31,000	318,060
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	240,897	295,516	258,405	671,484

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.

Materials, Supplies and Services

- 4220 Service fees for automatic bill payment, credit card processing and lockbox fees.
- 4250 Armored car services.
- 4815 Remittance processing machine, cash register, mail extractor maintenance, etc.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CUSTOMER CARE DIVISION

Customer Service Branch

5310 - Collection and Credit Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	610,732	664,848	658,856	741,792
4120	OVERTIME	4,579	6,000	2,974	2,976
4130	MISC PAYROLL COSTS	29,010	19,200	4,896	4,896
	TOTAL PERSONNEL SERVICES	644,321	690,048	666,726	749,664
					-
	TOTAL POSITIONS	15	16	15	17
4160	MEALS, MILEAGE, UNIFORM A	466	2,100	2,000	-
4220	COLLECTION FEES	267,214	660,000	437,800	468,000
4250	OTHER CONTRACTUAL SERVICE	5,002	4,800	6,450	68,100
4267	PRINTED FORMS	-	1,500	1,500	1,500
4430	MISC SUPPLIES	3,323	500	500	500
4460	OTHER MATERIALS & SUPPLIE	1,960	1,000	500	800
4815	REPAIR AND MAINT OF EQUIP	-	2,000	2,000	2,000
8050	EQUIPMENT UNDER \$5,000	1,198	1,000	1,000	1,500
	TOTAL MATERIAL & SUPPLIES	279,163	672,900	451,750	542,400
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	923,484	1,362,948	1,118,476	1,292,064

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.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CUSTOMER CARE DIVISION

Engineering Services Branch

5320 - Service Engineering Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	432,915	430,969	368,485	463,891
4120	OVERTIME	658	1,800	5,489	6,000
4130	MISC PAYROLL COSTS	-	-	-	45,000
	TOTAL PERSONNEL SERVICES	433,573	432,769	373,974	514,891
	TOTAL POSITIONS	7	7	6	8
4160	MEALS, MILEAGE, UNIFORM A	54	400	300	325
4250	OTHER CONTRACTUAL SERVICE	356	-	-	1,000
4430	MISC SUPPLIES	224	-	-	-
4460	OTHER MATERIALS & SUPPLIE	-	1,200	800	1,200
4815	REPAIR AND MAINT OF EQUIP	-	1,000	1,000	-
8050	EQUIPMENT UNDER \$5,000	-	400	100	400
	TOTAL MATERIAL & SUPPLIES	634	3,000	2,200	2,925
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	434,207	435,769	376,174	517,816

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.

Materials, Supplies and Services

4815 Repair and overhaul the department's temporary hydrant meters.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CUSTOMER CARE DIVISION

Engineering Services Branch

5325 - Cross-Connection Control and Backflow Prevention Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	220,911	345,948	310,115	334,512
4120	OVERTIME	397	2,400	1,717	3,600
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	221,308	348,348	311,832	338,112
	TOTAL POSITIONS	5	8	7	7
4160	MEALS, MILEAGE, UNIFORM A	46	500	-	500
4250	OTHER CONTRACTUAL SERVICE	1,880	-	-	-
4430	MISC SUPPLIES	1,903	450	350	450
4460	OTHER MATERIALS & SUPPLIE	16,890	25,000	21,000	65,348
4815	REPAIR AND MAINT OF EQUIP	3,993	15,000	10,000	133,809
4910	MISC FEES & REGISTRATIONS	1,070	1,000	1,000	1,000
8050	EQUIPMENT UNDER \$5,000	476	600	-	13,487
	TOTAL MATERIAL & SUPPLIES	26,258	42,550	32,350	214,594
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	247,566	390,898	344,182	552,706

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; and handles inquiries and complaints regarding BWS operations, policies, rates and high water bills. Issues, processes and maintains records of all orders for installing, reestablishing, removing, discontinuing, maintaining, repairing, relocating and testing meters and services; maintains all service records, maintains records of check meters, automatic fire sprinklers and special water services; prepares statistical reports on services. Assists other BWS personnel in other divisions with information, statistics, correct service numbers and locations, folio numbers and status of accounts via computer terminals and services files.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CUSTOMER CARE DIVISION

Customer Service Branch

5330 - Customer Service and Records Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	910,325	936,989	855,737	1,046,928
4120	OVERTIME	37,157	18,000	10,320	10,320
4130	MISC PAYROLL COSTS	11,009	-	286	-
	TOTAL PERSONNEL SERVICES	958,491	954,989	866,343	1,057,248
	TOTAL POSITIONS	31	29	26	30
4160	MEALS, MILEAGE, UNIFORM A	228	1,700	-	-
4250	OTHER CONTRACTUAL SERVICE	623	-	-	-
4267	PRINTED FORMS	-	200	-	-
4430	MISC SUPPLIES	103	300	300	400
4460	OTHER MATERIALS & SUPPLIE	18	-	-	-
4815	REPAIR AND MAINT OF EQUIP	-	200	-	-
8050	EQUIPMENT UNDER \$5,000	-	2,500	2,400	2,400
	TOTAL MATERIAL & SUPPLIES	972	4,900	2,700	2,800
1270	GENERAL PLANT & EQUIPMENT	-	50,000	50,000	-
	TOTAL EQUIPMENT	-	50,000	50,000	-
	TOTAL OPERATING EXPENDITURES	959,463	1,009,889	919,043	1,060,048

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.

Materials, Supplies and Services

4250 One Call Center annual payments; use of police for traffic control

4460 Locator balls, batteries, pliers, sound bars, wrenches, etc.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CUSTOMER CARE DIVISION
Customer Service Branch
5350 - Investigative Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	1,468,334	1,255,920	1,371,647	1,101,108
4120	OVERTIME	216,170	288,000	228,614	240,000
4130	MISC PAYROLL COSTS	16,246	64,699	40,000	51,000
	TOTAL PERSONNEL SERVICES	1,700,750	1,608,619	1,640,260	1,392,108
	TOTAL POSITIONS	25	26	26	20
4160	MEALS, MILEAGE, UNIFORM A	13,924	18,000	17,000	15,000
4250	OTHER CONTRACTUAL SERVICE	21,082	16,000	16,000	18,000
4430	MISC SUPPLIES	465	400	400	400
4460	OTHER MATERIALS & SUPPLIE	8,742	5,000	3,000	4,000
4470	PARTS AND ACCESSORIES	-	-	-	-
4815	REPAIR AND MAINT OF EQUIP	5,746	13,000	12,500	8,000
4910	MISC FEES & REGISTRATIONS	-	600	600	600
8050	EQUIPMENT UNDER \$5,000	20,784	35,000	34,500	29,700
	TOTAL MATERIAL & SUPPLIES	70,743	88,000	84,000	75,700
1270	GENERAL PLANT & EQUIPMENT	-	-	-	20,000
	TOTAL EQUIPMENT	-	-	-	20,000
	TOTAL OPERATING EXPENDITURES	1,771,493	1,696,619	1,724,260	1,487,808

Division's Activity

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

Materials, Supplies and Services

4210 land surveying costs; misc. appraisal costs

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

5400 - LAND DIVISION

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	241,348	269,532	266,570	285,936
4120	OVERTIME	14,649	15,600	16,746	16,800
4130	MISC PAYROLL COSTS	-	8,400	3,636	7,200
	TOTAL PERSONNEL SERVICES	255,997	293,532	286,952	309,936
	TOTAL POSITIONS	5	5	5	5
4160	MEALS, MILEAGE, UNIFORM A	360	500	276	480
4210	APPRAISALS, TITLE SEARCHES	24,764	420,500	363,300	420,500
4250	OTHER CONTRACTUAL SERVICE	639	100,900	530	720
4430	MISC SUPPLIES	453	500	777	600
4460	OTHER MATERIALS & SUPPLIES	157	-	1,061	-
4480	POSTAGE	138	200	92	200
4500	EDUCATION & TRAINING	-	-	-	-
4720	CONFERENCE EXPENSES	-	-	-	-
4815	REPAIR AND MAINT OF EQUIP	-	-	-	320
4910	MISC FEES & REGISTRATIONS	11,230	19,200	18,684	19,200
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	TOTAL MATERIAL & SUPPLIES	37,741	541,800	384,720	442,020
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	293,738	835,332	671,672	751,956

Division'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; and administers the water conservation and recycled water programs.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER RESOURCES DIVISION - TOTAL

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	1,746,000	2,266,348	1,813,009	2,227,769
4120	OVERTIME	57,000	62,065	42,921	60,829
4130	MISC PAYROLL COSTS	-	73,502	13,552	62,297
	TOTAL PERSONNEL SERVICES	1,803,000	2,401,915	1,869,482	2,350,895
	TOTAL POSITIONS	30	38	28	36
4160	MEALS, MILEAGE, UNIFORM A	1,000	3,660	636	600
4250	OTHER CONTRACTUAL SERVICE	551,000	667,970	560,506	1,285,580
4255	OTHER SERVICES	-	125,540	125,540	237,700
4265	PRINTING	-	500	300	500
4270	PROFESSIONAL SERVICES	3,000	-	-	150,000
4430	MISC SUPPLIES	4,000	6,000	8,621	10,000
4460	OTHER MATERIALS & SUPPLIE	9,000	12,500	9,592	21,500
4480	POSTAGE	-	480	104	480
4500	EDUCATION & TRAINING	3,000	11,529	8,608	16,169
4680	TELEPHONE	-	12,000	12,275	12,660
4720	CONFERENCE EXPENSES	9,000	20,260	19,034	35,350
4810	REPAIR AND MAINT OF RECYC	582,000	2,832,700	795,256	620,990
4815	REPAIR AND MAINT OF EQUIP	2,000	13,030	8,793	14,900
4910	MISC FEES & REGISTRATIONS	7,000	300	300	1,000
4920	NON-POTABLE WATER TREATME	4,688,000	5,507,800	5,098,592	5,507,800
4940	USGS COOPERATIVE INVESTIG	81,000	482,101	482,101	160,000
8050	EQUIPMENT UNDER \$5,000	21,000	20,375	19,642	23,000
	TOTAL MATERIAL & SUPPLIES	5,961,000	9,716,745	7,149,900	8,098,229
1270	GENERAL PLANT & EQUIPMENT	119,000	46,140	45,000	40,000
	TOTAL EQUIPMENT	119,000	46,140	45,000	40,000
	TOTAL OPERATING EXPENDITURES	7,883,000	12,164,800	9,064,382	10,489,124

Section's Activity

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

Materials, Supplies and Services

4250 Provisions for the Oahu Water Management Plan for Central Oahu.

4430 Office supplies; materials for charts, graphs and visual aids.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER RESOURCES DIVISION

5450 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	360,000	392,728	345,077	353,398
4120	OVERTIME	-	-	741	-
4130	MISC PAYROLL COSTS	-	1,956	8	-
	TOTAL PERSONNEL SERVICES	360,000	394,684	345,826	353,398
	TOTAL POSITIONS	6	6	5	5
4160	MEALS, MILEAGE, UNIFORM A	-	-	28	-
4250	OTHER CONTRACTUAL SERVICE	332,000	101,440	266	500,000
4430	MISC SUPPLIES	6,000	6,000	8,621	10,000
4460	OTHER MATERIALS & SUPPLIE	-	-	39	-
4680	TELEPHONE	-	-	275	660
4720	CONFERENCE EXPENSES	3,000	1,870	5,560	1,300
4815	REPAIR AND MAINT OF EQUIP	-	500	383	500
8050	EQUIPMENT UNDER \$5,000	1,000	-	-	-
	TOTAL MATERIAL & SUPPLIES	342,000	109,810	15,172	512,460
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	702,000	504,494	360,998	865,858

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.

Materials, Supplies and Services

4250 Mapping services, hydraulic water modeling support, flow meter maintenance, etc.

4460 Supplies for field testing, tools for installing portable flow meters and pressure recorders, etc.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER RESOURCES DIVISION

5470 - Water System Planning

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	219,000	311,512	237,087	336,932
4120	OVERTIME	3,000	12,108	1,855	7,944
4130	MISC PAYROLL COSTS	-	22,728	13,544	20,316
	TOTAL PERSONNEL SERVICES	222,000	346,348	252,487	365,192
	TOTAL POSITIONS	5	5	4	5
4160	MEALS, MILEAGE, UNIFORM A	-	-	32	-
4250	OTHER CONTRACTUAL SERVICE	-	4,230	240	480
4460	OTHER MATERIALS & SUPPLIE	-	1,500	1,500	1,500
4480	POSTAGE	-	480	104	480
4500	EDUCATION & TRAINING	2,000	4,000	4,279	8,190
4720	CONFERENCE EXPENSES	3,000	3,740	3,293	9,490
4815	REPAIR AND MAINT OF EQUIP	1,000	6,530	2,410	7,400
8050	EQUIPMENT UNDER \$5,000	4,000	2,475	2,442	-
	TOTAL MATERIAL & SUPPLIES	10,000	22,955	14,300	27,540
1270	GENERAL PLANT & EQUIPMENT	-	6,140	5,000	-
	TOTAL EQUIPMENT	-	6,140	5,000	-
	TOTAL OPERATING EXPENDITURES	232,000	375,443	271,787	392,732

Program's Activity

To institute sustainable water use behavior and practices across the island of Oahu. To develop, design, implement and measure the effectiveness of corresponding programs that promote sustainability and to demonstrate through action, the Department's core mission of "Water for Life".

Materials, Supplies and Services

4250 Conservation Implementation Plan

4270 QUINCI – Water Conservation Program Plan

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER RESOURCES DIVISION

5472 - Conservation (5150)

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	269,000	429,796	267,953	455,368
4120	OVERTIME	4,000	8,838	3,673	9,888
4130	MISC PAYROLL COSTS	-	15,758	-	22,788
	TOTAL PERSONNEL SERVICES	273,000	454,392	271,626	488,044
	TOTAL POSITIONS	5	7	5	8
4160	MEALS, MILEAGE, UNIFORM A	-	2,100	28	-
4250	OTHER CONTRACTUAL SERVICE	-	150,000	150,000	200,000
4255	OTHER SERVICES	-	-	-	20,000
4270	PROFESSIONAL SERVICES	3,000	-	-	150,000
4430	MISC SUPPLIES	(3,000)	-	-	-
4460	OTHER MATERIALS & SUPPLIE	-	4,200	2,719	14,200
4500	EDUCATION & TRAINING	-	2,000	-	2,000
4720	CONFERENCE EXPENSES	1,000	7,040	4,601	11,850
8050	EQUIPMENT UNDER \$5,000	9,000	2,500	2,500	-
	TOTAL MATERIAL & SUPPLIES	10,000	167,840	159,848	398,050
1270	GENERAL PLANT & EQUIPMENT	75,000	-	-	-
	TOTAL EQUIPMENT	75,000	-	-	-
	TOTAL OPERATING EXPENDITURES	358,000	622,232	431,474	886,094

Program'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.

Materials, Supplies and Services

4250 Recycled water sampling and testing.

4810 Services Agreement – maintenance & repair component, remote site repair & maintenance service fee, RO skid membrane replacement, high frequency ballasts replacement, and CMF membrane valves & actuators.

4920 Service fee components and land license fees.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

**WATER RESOURCES DIVISION
5475 - Recycled Water (5255)**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	-	-	-	-
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	-	-	-	-
	TOTAL POSITIONS	-	-	-	-
4160	MEALS, MILEAGE, UNIFORM A	-	-	-	-
4250	OTHER CONTRACTUAL SERVICE	123,000	111,100	110,000	112,800
4265	PRINTING	-	200	-	200
4460	OTHER MATERIALS & SUPPLIE	1,000	1,400	39	1,400
4720	CONFERENCE EXPENSES	-	-	-	-
4810	REPAIR AND MAINT OF RECYC	582,000	2,832,700	795,256	620,990
4920	NON-POTABLE WATER TREATME	4,688,000	5,507,800	5,098,592	5,507,800
4940	USGS COOPERATIVE INVESTIG	-	68,000	68,000	-
8050	EQUIPMENT UNDER \$5,000	-	400	200	400
	TOTAL MATERIAL & SUPPLIES	5,394,000	8,521,600	6,072,087	6,243,590
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	5,394,000	8,521,600	6,072,087	6,243,590

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.

Materials, Supplies and Services

- 4250 GIA funding for fencing project (Makaha); Climate Change Vulnerability Analysis (WRF); Transpiration Study; climate Model (UH-Manoa)
- 4255 various Watershed Partnerships(invasive species); MOA with OISC; MOA with DOFAW
- 4680 Cell phone services for remote data logging stations.
- 4940 Continuation of ongoing study of stream flows, rainfall measurements, groundwater monitoring with the United States Geological Survey.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER RESOURCES DIVISION

5480 - Hydrology/Geology

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	433,000	452,712	445,260	451,716
4120	OVERTIME	21,000	7,098	25,471	25,717
4130	MISC PAYROLL COSTS	-	2,027	-	2,014
	TOTAL PERSONNEL SERVICES	454,000	461,837	470,731	479,447
	TOTAL POSITIONS	7	8	7	8
4160	MEALS, MILEAGE, UNIFORM A	1,000	300	300	300
4250	OTHER CONTRACTUAL SERVICE	96,000	300,000	300,000	471,800
4255	OTHER SERVICES	-	125,540	125,540	217,700
4265	PRINTING	-	300	300	300
4460	OTHER MATERIALS & SUPPLIE	6,000	3,050	3,050	3,750
4500	EDUCATION & TRAINING	1,000	2,729	2,729	2,829
4680	TELEPHONE	-	12,000	12,000	12,000
4720	CONFERENCE EXPENSES	1,000	2,200	2,200	8,410
4815	REPAIR AND MAINT OF EQUIP	1,000	6,000	6,000	7,000
4910	MISC FEES & REGISTRATIONS	7,000	300	300	1,000
4940	USGS COOPERATIVE INVESTIG	81,000	414,101	414,101	160,000
8050	EQUIPMENT UNDER \$5,000	6,000	12,500	12,500	20,000
	TOTAL MATERIAL & SUPPLIES	200,000	879,020	879,020	905,089
1270	GENERAL PLANT & EQUIPMENT	44,000	40,000	40,000	40,000
	TOTAL EQUIPMENT	44,000	40,000	40,000	40,000
	TOTAL OPERATING EXPENDITURES	698,000	1,380,857	1,389,751	1,424,536

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.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER RESOURCES DIVISION

5490 - Project Review (5370)

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	113,000	246,424	136,644	242,943
4120	OVERTIME	4,000	8,400	332	4,800
4130	MISC PAYROLL COSTS	-	17,173	-	3,097
	TOTAL PERSONNEL SERVICES	117,000	271,997	136,976	250,840
	TOTAL POSITIONS	2	4	2	4
4160	MEALS, MILEAGE, UNIFORM A	-	300	-	-
4460	OTHER MATERIALS & SUPPLIE	-	400	30	-
4500	EDUCATION & TRAINING	-	1,600	400	750
4720	CONFERENCE EXPENSES	-	1,670	1,261	1,700
8050	EQUIPMENT UNDER \$5,000	1,000	2,500	2,000	1,500
	TOTAL MATERIAL & SUPPLIES	1,000	6,470	3,691	3,950
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	118,000	278,467	140,667	254,790

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; conducts watershed management partnership and provides graphic art services to the department.

Materials, Supplies and Services

4250 Printing services for Capital Improvement projects

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER RESOURCES DIVISION
5495 - Long Range Planning

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	352,000	433,176	380,987	387,412
4120	OVERTIME	25,000	25,621	10,848	12,480
4130	MISC PAYROLL COSTS	-	13,860	-	14,082
	TOTAL PERSONNEL SERVICES	377,000	472,657	391,835	413,974
	TOTAL POSITIONS	5	8	6	7
4160	MEALS, MILEAGE, UNIFORM A	-	960	248	300
4250	OTHER CONTRACTUAL SERVICE	-	1,200	-	500
4430	MISC SUPPLIES	1,000	-	-	-
4460	OTHER MATERIALS & SUPPLIE	2,000	1,950	2,215	650
4500	EDUCATION & TRAINING	-	1,200	1,200	2,400
4720	CONFERENCE EXPENSES	1,000	3,740	2,119	2,600
8050	EQUIPMENT UNDER \$5,000	-	-	-	1,100
	TOTAL MATERIAL & SUPPLIES	4,000	9,050	5,782	7,550
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	381,000	481,707	397,617	421,524

Division's Activity

The Field Operations Division is responsible for the maintenance of all waterworks facilities, including all pipelines, valves, fire hydrants, and corporation yards; developing, maintaining, and landscaping all grounds; installing, maintaining, and repairing service connections; maintaining office buildings and physical control of the storerooms and storage yards.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FIELD OPERATIONS - TOTAL

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & ECST	FY 2016 BUDGET
4110	REGULAR SALARIES	9,179,720	12,844,273	11,520,911	13,858,006
4120	OVERTIME	1,157,515	1,523,400	1,502,245	1,617,600
4130	MISC PAYROLL COSTS	429,295	576,400	474,409	895,000
	TOTAL PERSONNEL SERVICES	10,766,530	14,944,073	13,497,565	16,370,606
	TOTAL POSITIONS	210	256	228	267
1110	MATERIALS & SUPPLIES	1,080,000	2,000,000	2,000,000	2,000,000
1120	METERS	957,000	1,200,000	1,200,000	2,400,000
1125	AMR MATERIALS & SUPPLIES	471,000	1,320,000	1,320,000	2,400,000
4160	MEALS, MILEAGE, UNIFORM A	85,075	113,000	111,260	115,200
4230	EMERGENCY & CONTR ROAD RE	2,183,000	3,500,000	3,499,948	3,500,000
4250	OTHER CONTRACTUAL SERVICE	403,319	503,700	471,562	917,100
4267	PRINTED FORMS	-	600	-	-
4280	REFUSE COLLECTION & DISPO	560,445	400,000	400,883	550,000
4420	HIGHWAY MATERIALS	15,000	48,000	46,000	36,000
4430	MISC SUPPLIES	10,206	12,000	13,274	9,600
4460	OTHER MATERIALS & SUPPLIE	243,962	300,000	297,553	320,400
4470	PARTS AND ACCESSORIES	-	4,200	436	2,400
4500	EDUCATION & TRAINING	12,556	12,000	12,865	30,000
4720	CONFERENCE EXPENSES	4,113	24,000	22,493	12,000
4805	REPAIR AND MAINT OF STRUC	14,996	60,000	47,228	67,000
4815	REPAIR AND MAINT OF EQUIP	11,472	33,600	18,289	31,200
4910	MISC FEES & REGISTRATIONS	149	-	-	-
4920	NON-POTABLE WATER TREATME	-	60,000	45,000	60,000
4923	STORE MATERIALS & EXP DIS	529,883	500,000	500,000	500,000
8050	EQUIPMENT UNDER \$5,000	66,743	134,300	133,519	119,100
	TOTAL MATERIAL & SUPPLIES	6,648,919	10,225,400	10,140,310	13,070,000
1270	GENERAL PLANT & EQUIPMENT	-	249,400	40,000	-
	TOTAL EQUIPMENT	-	249,400	40,000	-
	TOTAL OPERATING EXPENDITURES	17,415,449	25,418,873	23,677,875	29,440,606

Section's Activity

Administers the affairs of the Field Operations Division.

Materials, Supplies and Services

4250 special duty police for traffic control

4720 AWWA Annual Conference expenses.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FIELD OPERATIONS
5500 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	475,876	418,081	549,793	726,573
4120	OVERTIME	1,410	4,800	3,957	4,800
4130	MISC PAYROLL COSTS	-	40,000	800	87,000
	TOTAL PERSONNEL SERVICES	477,286	462,881	554,550	818,373
	TOTAL POSITIONS	7	6	5	11
4160	MEALS, MILEAGE, UNIFORM A	10	1,800	33	-
4250	OTHER CONTRACTUAL SERVICE	41,353	148,000	125,053	160,000
4430	MISC SUPPLIES	466	-	-	-
4460	OTHER MATERIALS & SUPPLIE	6	6,000	4,500	6,000
4500	EDUCATION & TRAINING	10,739	12,000	12,865	30,000
4720	CONFERENCE EXPENSES	4,113	24,000	21,444	12,000
4815	REPAIR AND MAINT OF EQUIP	-	-	-	-
4910	MISC FEES & REGISTRATIONS	80	-	-	-
8050	EQUIPMENT UNDER \$5,000	-	28,800	28,014	-
	TOTAL MATERIAL & SUPPLIES	56,767	220,600	191,909	208,000
1270	GENERAL PLANT & EQUIPMENT	-	149,000	-	-
	TOTAL EQUIPMENT	-	149,000	-	-
	TOTAL OPERATING EXPENDITURES	534,053	832,481	746,459	1,026,373

Section's Activity

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

Materials, Supplies and Services

4230 contracted road repairs due to main breaks for City and State roads; emergency repairs

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FIELD OPERATIONS

Administrative Support Branch

5510 - Distribution Branch Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	109,000	231,534	254,211	295,129
4120	OVERTIME	730	1,200	1,449	2,400
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	109,730	232,734	255,660	297,529
	TOTAL POSITIONS	3	7	6	7
4160	MEALS, MILEAGE, UNIFORM A	1,000	-	18	-
4230	EMERGENCY & CONTR ROAD RE	2,183,000	3,500,000	3,499,948	3,500,000
4250	OTHER CONTRACTUAL SERVICE	40,000	-	2,220	2,400
4430	MISC SUPPLIES	9,000	10,000	10,230	9,600
4500	EDUCATION & TRAINING	1,000	-	-	-
4815	REPAIR AND MAINT OF EQUIP	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	TOTAL MATERIAL & SUPPLIES	2,234,000	3,510,000	3,512,416	3,512,000
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	2,343,730	3,742,734	3,768,076	3,809,529

Section's Activity

The Maintenance Section installs, operates and maintains valves, hydrants and appurtenances; disinfects mains; conducts welding, tapping and pipe cutting operations; operates and maintains the metropolitan gravity system, corporation yards, grounds and landscaped areas; conducts inspections of the distribution system and facilities.

Materials, Supplies and Services

4250. tree trimming

4280 disposal of refuse and landfill fees.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FIELD OPERATIONS

Distribution Branch

Maintenance Section

5520 - Administration Unit ; 5521 - Hydrants & Valves Unit ; & 5522 - Grounds & Landscaping Unit

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	1,839,248	2,612,688	2,390,005	2,713,080
4120	OVERTIME	133,341	199,800	229,189	228,000
4130	MISC PAYROLL COSTS	96,587	116,700	87,170	148,400
	TOTAL PERSONNEL SERVICES	2,069,176	2,929,188	2,706,364	3,089,480
	TOTAL POSITIONS	44	56	51	56
4160	MEALS, MILEAGE, UNIFORM A	12,546	15,600	17,270	16,800
4250	OTHER CONTRACTUAL SERVICE	119,330	240,000	247,147	600,000
4280	REFUSE COLLECTION & DISPO	560,445	400,000	400,883	550,000
4460	OTHER MATERIALS & SUPPLIE	64,030	90,000	91,396	108,000
4470	PARTS AND ACCESSORIES	-	3,000	436	-
4500	EDUCATION & TRAINING	100	-	-	-
4805	REPAIR AND MAINT OF STRUC	2,381	-	-	-
4815	REPAIR AND MAINT OF EQUIP	9,546	9,600	9,069	9,600
8050	EQUIPMENT UNDER \$5,000	15,446	30,000	30,005	34,200
	TOTAL MATERIAL & SUPPLIES	787,707	788,200	796,489	1,318,600
1270	GENERAL PLANT & EQUIPMENT	-	46,400	40,000	-
	TOTAL EQUIPMENT	-	46,400	40,000	-
	TOTAL OPERATING EXPENDITURES	2,856,883	3,763,788	3,542,853	4,408,080

Section's Activity

The Construction Section conducts all major emergency repair operations involving water mains, reservoirs and appurtenances and performs emergency light repairs in the city areas; constructs pipelines and appurtenances and miscellaneous projects connected with force account; performs merchandising and jobbing projects; conducts all carpentry, masonry and heavy equipment operations.

Materials, Supplies and Services

- 4250 Heavy and semi-heavy construction equipment rentals; off-duty police for traffic control; etc.
- 4460 Small tools, parts and accessories for sump pumps, pavement breakers and heavy equipment; safety equipment, cable, rope, etc.
- 4815 Repairs to welding, soldering, pneumatic and gas-powered equipment, etc.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FIELD OPERATIONS

Distribution Branch

5530 - Construction Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	1,624,000	2,192,316	1,680,100	2,265,900
4120	OVERTIME	398,000	600,000	528,575	600,000
4130	MISC PAYROLL COSTS	72,000	91,500	92,897	173,000
	TOTAL PERSONNEL SERVICES	2,094,000	2,883,816	2,301,572	3,038,900
	TOTAL POSITIONS	37	37	30	38
4160	MEALS, MILEAGE, UNIFORM A	23,000	36,000	33,000	36,000
4250	OTHER CONTRACTUAL SERVICE	59,000	47,000	40,000	48,000
4460	OTHER MATERIALS & SUPPLIE	30,000	36,000	34,000	36,000
4720	CONFERENCE EXPENSES	-	-	-	-
4805	REPAIR AND MAINT OF STRUC	4,000	36,000	29,000	36,000
4815	REPAIR AND MAINT OF EQUIP	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	8,000	11,600	12,000	14,700
	TOTAL MATERIAL & SUPPLIES	124,000	166,600	148,000	170,700
1270	GENERAL PLANT & EQUIPMENT	-	10,000	-	-
	TOTAL EQUIPMENT	-	10,000	-	-
	TOTAL OPERATING EXPENDITURES	2,218,000	3,060,416	2,449,572	3,209,600

Section's Activity

The Suburban Field Services Branch, in the respective suburban areas, operates the distribution systems, including the installation, maintenance and repairs of mains, fire hydrants, valves and other appurtenances; operates and maintains the corporation yards; operates a radio-telephone communications center in each of the three suburban headquarters--Central, Leeward and Waianae base yards.

Materials, Supplies and Services

4250 Equipment rentals; welding services; machine shop services

4460 Botanicals, small tools, miscellaneous supplies and materials.

4815 Repairs to lawn mowers, weed-eaters, welding, pneumatic and gas-powered equipment, etc.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FIELD OPERATIONS

Suburban Field Services Branch

5540 - Admin. Section ; 5541 - Manana Section; 5542 - Wahiawa Section; & 5543 - Waianae Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	2,613,761	3,313,986	3,058,734	3,506,148
4120	OVERTIME	425,410	480,000	521,089	553,200
4130	MISC PAYROLL COSTS	124,458	157,500	129,407	218,000
	TOTAL PERSONNEL SERVICES	3,163,629	3,951,486	3,709,231	4,277,348
	TOTAL POSITIONS	63	65	60	66
4160	MEALS, MILEAGE, UNIFORM A	28,742	35,000	36,073	38,400
4250	OTHER CONTRACTUAL SERVICE	113,730	43,000	34,249	43,000
4430	MISC SUPPLIES	733	2,000	21	-
4460	OTHER MATERIALS & SUPPLIE	42,739	54,000	48,770	54,000
4805	REPAIR AND MAINT OF STRUC	2,864	-	-	7,000
4815	REPAIR AND MAINT OF EQUIP	1,768	7,200	5,400	6,000
4910	MISC FEES & REGISTRATIONS	69	-	-	-
4923	STORE MATERIALS & EXP DIS	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	28,836	44,700	44,622	56,500
	TOTAL MATERIAL & SUPPLIES	220,198	185,900	169,653	204,900
1270	GENERAL PLANT & EQUIPMENT	-	10,000	-	-
	TOTAL EQUIPMENT	-	10,000	-	-
	TOTAL OPERATING EXPENDITURES	3,383,827	4,147,386	3,878,884	4,482,248

Section's Activity

The Distribution Services Section installs new service connections and meters; maintains repairs and renews service connections; and maintains the Beretania Complex, Kalihi Office buildings and Kalihi Museum.

Materials, Supplies and Services

4250 Maintenance contract for rugs and dust mops, equipment rental and repair, etc.

4460 Small tool replacements and new issues, miscellaneous supplies, etc.

4805 Repair and maintenance of facilities.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FIELD OPERATIONS

Distribution Branch

Maintenance Section

5550 - Dist. Svcs.; 5551 - Service Connections; 5553 - Building Maintenance

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	729,835	1,261,824	1,008,610	1,211,388
4120	OVERTIME	85,624	90,000	90,033	91,200
4130	MISC PAYROLL COSTS	55,250	43,400	34,606	78,400
	TOTAL PERSONNEL SERVICES	870,709	1,395,224	1,133,248	1,380,988
	TOTAL POSITIONS	18	26	23	26
4160	MEALS, MILEAGE, UNIFORM A	7,777	8,400	8,451	8,400
4250	OTHER CONTRACTUAL SERVICE	12,906	12,000	12,193	12,000
4430	MISC SUPPLIES	7	-	-	-
4460	OTHER MATERIALS & SUPPLIE	6,187	6,000	7,594	6,000
4805	REPAIR AND MAINT OF STRUC	2,751	24,000	18,228	24,000
4815	REPAIR AND MAINT OF EQUIP	158	-	-	-
8050	EQUIPMENT UNDER \$5,000	461	5,000	4,678	3,800
	TOTAL MATERIAL & SUPPLIES	30,247	55,400	51,144	54,200
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	900,956	1,450,624	1,184,392	1,435,188

Section's Activity

The Meter Maintenance Section operates and maintains the meter shop for testing and repairing meters; maintains and updates the meter record system; conducts annual meter replacement and overhaul 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.

Materials, Supplies and Services

1120 Water meter inventory.

1125 AMR parts & supplies - Meter transceiver units, encoded register, and miscellaneous AMR inventory.

4460 Temporary hydrant meter components and other miscellaneous materials and supplies.

4815 Bench tester maintenance, and meter master battery replacement/repairs.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FIELD OPERATIONS

5552 - Meter Shop (5385)

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	336,000	936,528	821,684	1,163,673
4120	OVERTIME	11,000	24,000	9,991	12,000
4130	MISC PAYROLL COSTS	-	3,600	11,400	20,000
	TOTAL PERSONNEL SERVICES	347,000	964,128	843,075	1,195,673
	TOTAL POSITIONS	7	21	19	25
1120	METERS	957,000	1,200,000	1,200,000	2,400,000
1125	AMR MATERIALS & SUPPLIES	471,000	1,320,000	1,320,000	2,400,000
4160	MEALS, MILEAGE, UNIFORM A	-	1,200	2,000	-
4250	OTHER CONTRACTUAL SERVICE	7,000	12,000	9,000	50,000
4430	MISC SUPPLIES	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	9,000	12,000	12,000	12,000
4470	PARTS AND ACCESSORIES	-	1,200	-	2,400
4815	REPAIR AND MAINT OF EQUIP	-	12,000	-	12,000
4910	MISC FEES & REGISTRATIONS	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	2,000	11,000	11,000	4,200
	TOTAL MATERIAL & SUPPLIES	1,446,000	2,569,400	2,554,000	4,880,600
1270	GENERAL PLANT & EQUIPMENT	18,000	-	-	-
	TOTAL EQUIPMENT	18,000	-	-	-
	TOTAL OPERATING EXPENDITURES	1,811,000	3,533,528	3,397,075	6,076,273

Section's Activity

Maintains the water distribution system, appurtenances and grounds within the Windward Section including all mains, valves and hydrants; repairs and installs service connections and operates a radio-telephone communications center.

Materials, Supplies and Services

4250 Equipment rentals welding services

4815 misc. tools and supplies

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FIELD OPERATIONS

5560 - Windward Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	1,198,000	1,580,472	1,441,574	1,646,296
4120	OVERTIME	100,000	120,000	112,398	120,000
4130	MISC PAYROLL COSTS	81,000	122,500	117,329	150,000
	TOTAL PERSONNEL SERVICES	1,379,000	1,822,972	1,671,302	1,916,296
	TOTAL POSITIONS	24	30	28	30
4160	MEALS, MILEAGE, UNIFORM A	11,000	12,000	11,715	12,000
4250	OTHER CONTRACTUAL SERVICE	10,000	1,700	1,700	1,700
4430	MISC SUPPLIES	-	-	23	-
4440	MOTOR VEHICLE PARTS & ACC	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	14,000	12,000	15,293	14,400
4720	CONFERENCE EXPENSES	-	-	248	-
4805	REPAIR AND MAINT OF STRUC	3,000	-	-	-
4815	REPAIR AND MAINT OF EQUIP	-	4,800	3,820	3,600
4923	STORE MATERIALS & EXP DIS	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	12,000	3,200	3,200	5,700
	TOTAL MATERIAL & SUPPLIES	50,000	33,700	35,999	37,400
1270	GENERAL PLANT & EQUIPMENT	-	34,000	-	-
	TOTAL EQUIPMENT	-	34,000	-	-
	TOTAL OPERATING EXPENDITURES	1,429,000	1,890,672	1,707,301	1,953,696

Section's Activity

The Supply 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.

Materials, Supplies and Services

1110 Storeroom inventory materials

4420 Asphalt, aggregate, cold mix, gravel, etc.

4460 Miscellaneous non-stock items

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FIELD OPERATIONS

Administrative Support Branch

5585 - Supply Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	254,000	296,844	316,200	329,820
4120	OVERTIME	2,000	3,600	5,563	6,000
4130	MISC PAYROLL COSTS	-	1,200	800	20,200
	TOTAL PERSONNEL SERVICES	256,000	301,644	322,564	356,020
	TOTAL POSITIONS	7	8	8	8
1110	MATERIALS & SUPPLIES	1,080,000	2,000,000	2,000,000	2,000,000
4160	MEALS, MILEAGE, UNIFORM A	1,000	3,000	2,700	3,600
4267	PRINTED FORMS	-	600	-	-
4420	HIGHWAY MATERIALS	15,000	48,000	46,000	36,000
4430	MISC SUPPLIES	-	-	3,000	-
4460	OTHER MATERIALS & SUPPLIE	78,000	84,000	84,000	84,000
4920	NON-POTABLE WATER TREATME	-	60,000	45,000	60,000
4923	STORE MATERIALS & EXP DIS	526,000	500,000	500,000	500,000
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	TOTAL MATERIAL & SUPPLIES	1,700,000	2,695,600	2,680,700	2,683,600
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	1,956,000	2,997,244	3,003,264	3,039,620

Division's Activity

The Capital Projects Division is responsible for developing and administering the department's Capital Improvement Program and the design and construction of all waterworks facilities, including mains and appurtenances, well and pump stations, reservoirs, and support facilities. This involves preparing detailed plans and specifications for all waterworks installations, administering consultant contracts, and implementing and inspecting all phases of construction.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CAPITAL PROJECTS DIVISION - TOTAL

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	3,398,844	4,071,035	3,752,584	4,367,720
4120	OVERTIME	274,485	336,500	336,838	340,200
4130	MISC PAYROLL COSTS	4,495	236,480	134,445	124,000
	TOTAL PERSONNEL SERVICES	3,677,824	4,644,015	4,223,866	4,831,920
	TOTAL POSITIONS	49	66	53	66
4160	MEALS, MILEAGE, UNIFORM A	12,790	19,900	18,156	19,800
4250	OTHER CONTRACTUAL SERVICE	1,942,642	3,155,000	3,004,658	1,990,000
4260	ADV & PUBL OF NOTICES	-	2,000	2,000	2,000
4430	MISC SUPPLIES	5,743	8,400	6,204	6,700
4460	OTHER MATERIALS & SUPPLIE	1,312	6,300	726	4,800
4480	POSTAGE	5	-	-	-
4500	EDUCATION & TRAINING	420	27,700	5,857	18,700
4650	SECURITY CAMERA CABLE LIN	-	-	-	-
4720	CONFERENCE EXPENSES	7,561	13,150	9,189	9,500
4815	REPAIR AND MAINT OF EQUIP	7,169	10,100	9,597	10,600
4910	MISC FEES & REGISTRATIONS	100	23,000	23,308	23,000
8050	EQUIPMENT UNDER \$5,000	5,456	3,500	1,929	750
	TOTAL MATERIAL & SUPPLIES	1,983,198	3,269,050	3,081,624	2,685,850
1270	GENERAL PLANT & EQUIPMENT	-	200,000	-	-
	TOTAL EQUIPMENT	-	200,000	-	-
	TOTAL OPERATING EXPENDITURES	5,661,022	8,113,065	7,305,490	7,517,770

Section's Activity

The Engineering Branch Administration administers the programs involving the planning, designing, inspecting and executing of all waterworks projects that are incorporated into the public water system.

Materials, Supplies and Services

4250 consultant services to support the Program Management project

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CAPITAL PROJECTS DIVISION
5565 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	411,557	471,262	464,156	514,323
4120	OVERTIME	-	1,100	-	-
4130	MISC PAYROLL COSTS	-	13,680	-	-
	TOTAL PERSONNEL SERVICES	411,557	486,042	464,156	514,323
	TOTAL POSITIONS	6	7	6	7
4160	MEALS, MILEAGE, UNIFORM A	-	100	100	200
4250	OTHER CONTRACTUAL SERVICE	1,878,000	2,400,000	2,299,000	1,200,000
4260	ADV & PUBL OF NOTICES	-	2,000	2,000	2,000
4430	MISC SUPPLIES	1,319	8,400	1,980	2,500
4460	OTHER MATERIALS & SUPPLIE	-	6,300	-	-
4500	EDUCATION & TRAINING	-	1,000	-	1,000
4720	CONFERENCE EXPENSES	2,307	3,150	745	2,500
4815	REPAIR AND MAINT OF EQUIP	742	2,000	2,001	2,000
4910	MISC FEES & REGISTRATIONS	-	22,500	22,500	22,500
8050	EQUIPMENT UNDER \$5,000	2,600	1,000	454	-
	TOTAL MATERIAL & SUPPLIES	1,884,968	2,446,450	2,328,780	1,232,700
1270	GENERAL PLANT & EQUIPMENT	-	200,000	-	-
	TOTAL EQUIPMENT	-	200,000	-	-
	TOTAL OPERATING EXPENDITURES	2,296,525	3,132,492	2,792,936	1,747,023

Section's Activity

The Design Section administers the department's Capital Improvement Program through project management teams; prepares detailed specifications and plans for all waterworks installations; coordinates and administers all consultant contracts; coordinates and secures all necessary permits and clearances for construction; provides design assistance to other divisions as required; determines feasibility of pipeline alignments, reservoir sites and pumping facilities; prepares plans and specifications for all major replacement and repair projects including additions to the system.

Materials, Supplies and Services

4460 Miscellaneous engineering and office supplies.

4500 Autocad training and other miscellaneous technical training classes

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CAPITAL PROJECTS DIVISION

5570 - Design

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	769,455	884,976	809,224	876,336
4120	OVERTIME	66,611	78,000	77,948	84,000
4130	MISC PAYROLL COSTS	-	1,200	3,012	3,000
	TOTAL PERSONNEL SERVICES	836,066	964,176	890,183	963,336
	TOTAL POSITIONS	9	15	12	15
4160	MEALS, MILEAGE, UNIFORM A	3,292	3,000	3,013	3,000
4430	MISC SUPPLIES	530	-	24	-
4460	OTHER MATERIALS & SUPPLIE	77	-	-	3,000
4480	POSTAGE	5	-	-	-
4500	EDUCATION & TRAINING	20	13,900	1,838	6,200
4720	CONFERENCE EXPENSES	1,685	2,975	3,744	2,500
8050	EQUIPMENT UNDER \$5,000	906	1,000	1,000	-
	TOTAL MATERIAL & SUPPLIES	6,515	20,875	9,619	14,700
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	842,581	985,051	899,802	978,036

Section's Activity

The Construction Section implements and inspects the construction phases of the department's Capital Improvement Program. This section also plans and coordinates construction schedules and procedures of all water system facilities; inspects the construction of all water system facilities for adherence to the department's standards, policies, plans and specifications utilizing approved construction and engineering practices.

Materials, Supplies and Services

4250 consultant services to coordinate with PMIS consultants.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

**CAPITAL PROJECTS DIVISION
5575 - Construction Branch**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	1,407,712	1,754,313	1,649,613	1,981,658
4120	OVERTIME	207,766	252,000	256,308	252,000
4130	MISC PAYROLL COSTS	4,495	219,600	131,433	121,000
	TOTAL PERSONNEL SERVICES	1,619,973	2,225,913	2,037,354	2,354,658
	TOTAL POSITIONS	21	29	23	29
4160	MEALS, MILEAGE, UNIFORM A	9,498	16,500	15,043	16,500
4250	OTHER CONTRACTUAL SERVICE	22,108	660,000	643,706	660,000
4430	MISC SUPPLIES	530	-	18	-
4460	OTHER MATERIALS & SUPPLIE	1,231	-	726	-
4500	EDUCATION & TRAINING	400	6,000	3,600	6,000
4720	CONFERENCE EXPENSES	3,569	4,700	4,700	4,000
4910	MISC FEES & REGISTRATIONS	100	500	500	500
8050	EQUIPMENT UNDER \$5,000	286	-	475	-
	TOTAL MATERIAL & SUPPLIES	37,722	687,700	668,768	687,000
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	1,657,695	2,913,613	2,706,122	3,041,658

Section's Activity

The Support Section prepares the Department's annual Capital Improvement Program; coordinates BWS projects with other City and State projects; prepares plans, specifications, and contract documents for facility repair and replacement projects; oversees consultant contracts for studies and for the design of repairs to BWS facilities and water system improvements; coordinates and assembles plans and specifications for projects to be advertised for competitive bidding; prepares maps for presentations on BWS projects to community associations; develops and maintains water system standards; conducts materials testing and research programs to evaluate new materials and equipment; maintains main break records and develops main replacement programs; maintains and updates the distribution maps; develops fire protection improvement programs; maintains and updates fire hydrant files; prepares responses to public information requests and complaints on water facilities; updates BWS GIS water infrastructure data, main break locations, and BWS project data; compiles the Engineering Branch's physical inventory; purchases common engineering supplies for the Branch; and maintains the Department's construction as-built drawings.

Materials, Supplies and Services

- 4250 Consolidated charges for printing of Water System standards, reproduction of maps, mylar duplicates, As-built plans, contract drawings, departmental tax map rentals, photographic services, etc.
- 4270 updating the 2002 Water Systems Standards (Oahu only)
- 4815 Repair and maintenance of blueprint machines and survey equipment.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CAPITAL PROJECTS DIVISION
5580 - Support Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	448,704	487,286	443,645	506,232
4120	OVERTIME	108	3,000	2,582	3,000
4130	MISC PAYROLL COSTS	-	1,000	-	-
	TOTAL PERSONNEL SERVICES	448,812	491,286	446,227	509,232
	TOTAL POSITIONS	7	8	6	8
4160	MEALS, MILEAGE, UNIFORM A	-	100	-	100
4250	OTHER CONTRACTUAL SERVICE	16,340	25,000	22,674	25,000
4270	PROFESSIONAL SERVICES	-	-	-	600,000
4430	MISC SUPPLIES	3,053	-	4,182	4,200
4460	OTHER MATERIALS & SUPPLIE	4	-	-	-
4500	EDUCATION & TRAINING	-	4,800	419	2,500
4720	CONFERENCE EXPENSES	-	375	-	500
4815	REPAIR AND MAINT OF EQUIP	6,427	8,100	7,596	8,600
4910	MISC FEES & REGISTRATIONS	-	-	308	-
8050	EQUIPMENT UNDER \$5,000	288	-	-	-
	TOTAL MATERIAL & SUPPLIES	26,112	38,375	35,179	640,900
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	474,924	529,661	481,406	1,150,132

Section's Activity

The Mechanical/Electrical Section administers the Department's mechanical and electrical capital improvement program through consultant contracts and in-house design; reviews consultant plans, specifications and cost estimates; assists Capital Projects Division with mechanical and electrical design portions of their projects; prepares project plans, specifications and other necessary documents for competitive bidding; prepares contracts, award letters, change orders, and other required correspondence; prepares cost estimates to secure funding for future projects; provide technical assistance to construction inspectors during construction; conduct performance and acceptance testing of all mechanical and electrical equipment

Materials, Supplies and Services

4250 temporary and permanent HECO service fees for various construction projects

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

CAPITAL PROJECTS DIVISION

5582 (5630) - Mechanical / Electrical Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	361,416	473,198	385,945	489,171
4120	OVERTIME	-	2,400	-	1,200
4130	MISC PAYROLL COSTS	-	1,000	-	-
	TOTAL PERSONNEL SERVICES	361,416	476,598	385,945	490,371
	TOTAL POSITIONS	6	7	6	7
4160	MEALS, MILEAGE, UNIFORM A	-	200	-	-
4250	OTHER CONTRACTUAL SERVICE	26,194	70,000	39,278	105,000
4430	MISC SUPPLIES	311	-	-	-
4460	OTHER MATERIALS & SUPPLIE	-	-	-	1,800
4500	EDUCATION & TRAINING	-	2,000	-	3,000
4720	CONFERENCE EXPENSES	-	1,950	-	-
8050	EQUIPMENT UNDER \$5,000	1,376	1,500	-	750
	TOTAL MATERIAL & SUPPLIES	27,881	75,650	39,278	110,550
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	389,297	552,248	425,223	600,921

Division'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 administers the mechanical and electrical Capital Program; performs required water quality testing and monitoring; and purchases, maintains, and repairs the department's vehicles and construction equipment.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER SYSTEM OPERATIONS DIVISION - TOTAL

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	3,781,000	5,712,844	4,537,609	6,254,173
4120	OVERTIME	440,000	496,000	453,327	542,800
4130	MISC PAYROLL COSTS	19,000	117,620	-	111,600
	TOTAL PERSONNEL SERVICES	4,240,000	6,326,464	4,990,936	6,908,573
	TOTAL POSITIONS	70	106	87	115
4160	MEALS, MILEAGE, UNIFORM A	12,000	35,500	29,655	35,500
4250	OTHER CONTRACTUAL SERVICE	217,000	287,000	275,800	295,200
4267	PRINTED FORMS	-	100	100	100
4270	PROFESSIONAL SERVICES	1,350,000	1,620,000	-	840,000
4410	GASOLINE	783,000	990,000	995,500	990,000
4430	MISC SUPPLIES	4,000	6,000	4,600	11,000
4440	MOTOR VEHICLE PARTS & ACC	379,000	408,900	473,000	432,000
4460	OTHER MATERIALS & SUPPLIE	1,990,000	2,647,000	2,869,445	2,698,500
4470	PARTS AND ACCESSORIES	469,000	540,000	498,281	524,400
4500	EDUCATION & TRAINING	8,000	59,100	30,400	79,600
4670	TELEMETERING	192,000	240,000	214,000	240,000
4680	TELEPHONE	-	-	-	-
4720	CONFERENCE EXPENSES	5,000	10,300	2,300	15,800
4805	REPAIR AND MAINT OF STRUC	133,000	60,000	17,000	52,000
4815	REPAIR AND MAINT OF EQUIP	892,000	1,306,800	1,268,000	1,165,200
4910	MISC FEES & REGISTRATIONS	2,000	2,100	3,300	5,100
8050	EQUIPMENT UNDER \$5,000	404,000	939,400	902,880	731,500
	TOTAL MATERIAL & SUPPLIES	6,840,000	9,152,200	7,584,261	8,115,900
1270	GENERAL PLANT & EQUIPMENT	1,399,000	2,060,100	1,541,200	2,560,100
	TOTAL EQUIPMENT	1,399,000	2,060,100	1,541,200	2,560,100
	TOTAL OPERATING EXPENDITURES	12,479,000	17,538,764	14,116,397	17,584,573

Section's Activity

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

Materials, Supplies and Services

4250 Cell phone charges; office equipment maintenance.

4270 consultant services for the Instrumentation and Control upgrade for all pump and treatment stations.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER SYSTEM OPERATIONS DIVISION
5600 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	358,000	480,757	372,565	361,345
4120	OVERTIME	1,000	3,600	2,907	2,400
4130	MISC PAYROLL COSTS	-	16,900	-	19,900
	TOTAL PERSONNEL SERVICES	359,000	501,257	375,472	383,645
	TOTAL POSITIONS	6	9	7	6
4160	MEALS, MILEAGE, UNIFORM A	-	300	-	300
4250	OTHER CONTRACTUAL SERVICE	15,000	39,400	36,500	18,000
4270	PROFESSIONAL SERVICES	1,350,000	1,620,000	-	840,000
4430	MISC SUPPLIES	3,000	4,800	4,500	4,800
4460	OTHER MATERIALS & SUPPLIE	-	700	-	-
4500	EDUCATION & TRAINING	-	1,800	1,600	2,300
4720	CONFERENCE EXPENSES	3,000	1,500	1,500	3,000
4815	REPAIR AND MAINT OF EQUIP	3,000	-	-	-
4910	MISC FEES & REGISTRATIONS	-	-	-	600
8050	EQUIPMENT UNDER \$5,000	-	2,100	2,000	-
	TOTAL MATERIAL & SUPPLIES	1,374,000	1,670,600	46,100	869,000
1270	GENERAL PLANT & EQUIPMENT	-	16,000	16,000	-
	TOTAL EQUIPMENT	-	16,000	16,000	-
	TOTAL OPERATING EXPENDITURES	1,733,000	2,187,857	437,572	1,252,645

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.

Materials, Supplies and Services

4460 Chlorine replacement; GAC replacement

4815 Motor rewind and reconditioning.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER SYSTEM OPERATIONS DIVISION

Plant Operations Branch

5610 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	79,000	138,108	72,609	234,792
4120	OVERTIME	3,000	9,000	7,496	9,000
4130	MISC PAYROLL COSTS	-	1,200	-	1,200
	TOTAL PERSONNEL SERVICES	82,000	148,308	80,105	244,992
	TOTAL POSITIONS	1	2	1	4
4160	MEALS, MILEAGE, UNIFORM A	-	300	-	300
4250	OTHER CONTRACTUAL SERVICE	73,000	10,000	8,000	3,600
4460	OTHER MATERIALS & SUPPLIE	1,776,000	2,386,700	2,621,000	2,409,400
4470	PARTS AND ACCESSORIES	18,000	-	4,000	-
4500	EDUCATION & TRAINING	2,000	8,900	-	900
4670	TELEMETERING	1,000	-	-	-
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4805	REPAIR AND MAINT OF STRUC	105,000	50,000	9,000	48,000
4815	REPAIR AND MAINT OF EQUIP	685,000	822,000	818,000	888,400
8050	EQUIPMENT UNDER \$5,000	9,000	271,000	266,000	61,000
	TOTAL MATERIAL & SUPPLIES	2,669,000	3,549,900	3,727,000	3,420,500
1270	GENERAL PLANT & EQUIPMENT	10,000	10,000	-	140,000
	TOTAL EQUIPMENT	10,000	10,000	-	140,000
	TOTAL OPERATING EXPENDITURES	2,761,000	3,708,208	3,807,105	3,805,492

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.

Materials, Supplies and Services

- 4460 Lubricants for pumps, bearings and shafts, chlorine, sodium hypochlorite, replacements of small hand tools, miscellaneous parts, accessories and supplies, etc
- 4470 Provisions for pump and well control electronic conversion, pressure recorder parts, small electric motors, solenoid valves, electronic controls, motor line starters, etc.
- 4815 Replacement, reconditioning, maintenance and emergency repairs of pumps and motors and water treatment plant carbon replacement.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER SYSTEM OPERATIONS DIVISION

Plant Operations Branch

5611 - District 1 Leeward West Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	339,000	598,345	386,585	616,924
4120	OVERTIME	86,000	100,000	100,432	100,000
4130	MISC PAYROLL COSTS	-	19,000	-	6,000
	TOTAL PERSONNEL SERVICES	425,000	717,345	487,017	722,924
	TOTAL POSITIONS	7	11	7	11
4160	MEALS, MILEAGE, UNIFORM A	4,000	6,200	6,000	6,200
4460	OTHER MATERIALS & SUPPLIE	32,000	36,000	33,000	39,600
4470	PARTS AND ACCESSORIES	91,000	120,400	117,000	110,000
4500	EDUCATION & TRAINING	1,000	4,800	4,580	9,600
4680	TELEPHONE	-	-	-	-
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4815	REPAIR AND MAINT OF EQUIP	-	62,000	60,000	12,000
8050	EQUIPMENT UNDER \$5,000	25,000	92,400	81,000	72,700
	TOTAL MATERIAL & SUPPLIES	153,000	322,800	301,580	251,600
1270	GENERAL PLANT & EQUIPMENT	-	160,000	-	36,000
	TOTAL EQUIPMENT	-	160,000	-	36,000
	TOTAL OPERATING EXPENDITURES	578,000	1,200,145	788,597	1,010,524

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.

Materials, Supplies and Services

- 4460 Lubricants for pumps, bearings and shafts, chlorine, sodium hypochlorite, replacements of small hand tools, miscellaneous parts, accessories and supplies, etc
- 4470 Provisions for pump and well control electronic conversion, pressure recorder parts, small electric motors, solenoid valves, electronic controls, motor line starters, etc.
- 4815 Replacement, reconditioning, maintenance and emergency repairs of pumps and motors and water treatment plant carbon replacement

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER SYSTEM OPERATIONS DIVISION

Plant Operations Branch

5612 - District 2 Central/Windward Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	356,000	547,200	373,986	567,576
4120	OVERTIME	81,000	96,000	94,553	132,000
4130	MISC PAYROLL COSTS	12,000	12,000	-	12,000
	TOTAL PERSONNEL SERVICES	449,000	655,200	468,540	711,576
	TOTAL POSITIONS	8	10	7	10
4160	MEALS, MILEAGE, UNIFORM A	1,000	7,400	6,800	7,400
4460	OTHER MATERIALS & SUPPLIE	19,000	44,800	42,000	44,800
4470	PARTS AND ACCESSORIES	56,000	89,200	81,000	80,000
4500	EDUCATION & TRAINING	1,000	4,800	3,600	9,600
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4805	REPAIR AND MAINT OF STRUC	-	-	-	-
4815	REPAIR AND MAINT OF EQUIP	89,000	232,000	220,000	68,000
8050	EQUIPMENT UNDER \$5,000	11,000	69,000	62,500	79,500
	TOTAL MATERIAL & SUPPLIES	177,000	448,200	415,900	290,800
1270	GENERAL PLANT & EQUIPMENT	-	-	-	10,000
	TOTAL EQUIPMENT	-	-	-	10,000
	TOTAL OPERATING EXPENDITURES	626,000	1,103,400	884,440	1,012,376

Section's Activity

District 3 consists of the stations in Metropolitan Honolulu from Kalihi to Makapuu.

Materials, Supplies and Services

- 4460 Lubricants for pumps, bearings and shafts, chlorine, sodium hypochlorite, replacements of small hand tools, miscellaneous parts, accessories and supplies, etc
- 4470 Provisions for pump and well control electronic conversion, pressure recorder parts, small electric motors, solenoid valves, electronic controls, motor line starters, etc.
- 4815 Replacement, reconditioning, maintenance and emergency repairs of pumps and motors.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER SYSTEM OPERATIONS DIVISION

Plant Operations Branch

5613 - District 3 Metropolitan Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	342,000	548,112	270,777	564,540
4120	OVERTIME	45,000	48,000	47,779	60,000
4130	MISC PAYROLL COSTS	3,000	6,000	-	6,000
	TOTAL PERSONNEL SERVICES	390,000	602,112	318,556	630,540
	TOTAL POSITIONS	5	10	5	10
4160	MEALS, MILEAGE, UNIFORM A	-	3,300	3,282	3,300
4460	OTHER MATERIALS & SUPPLIE	25,000	37,100	33,845	17,900
4470	PARTS AND ACCESSORIES	117,000	120,000	78,281	100,000
4500	EDUCATION & TRAINING	-	4,800	3,180	9,600
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4815	REPAIR AND MAINT OF EQUIP	9,000	27,000	29,000	27,000
8050	EQUIPMENT UNDER \$5,000	40,000	59,200	52,000	42,500
	TOTAL MATERIAL & SUPPLIES	191,000	252,400	199,588	201,800
1270	GENERAL PLANT & EQUIPMENT	-	10,000	-	50,000
	TOTAL EQUIPMENT	-	10,000	-	50,000
	TOTAL OPERATING EXPENDITURES	581,000	864,512	518,144	882,340

Section's Activity

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

Materials, Supplies and Services

- 4460 Lubricants for pumps, bearings and shafts, sodium hypochlorite, replacements of small hand tools, miscellaneous parts, accessories and supplies, etc
- 4470 Provisions for pump and well control electronic conversion, pressure recorder parts, small electric motors, solenoid valves, electronic controls, motor line starters, etc.
- 4815 GAC replacement, elevator maintenance.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER SYSTEM OPERATIONS DIVISION

Plant Operations Branch

5614 - District 4 Leeward East Section Section

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	348,000	550,056	387,359	568,512
4120	OVERTIME	55,000	56,400	35,970	56,400
4130	MISC PAYROLL COSTS	1,000	4,800	-	4,800
	TOTAL PERSONNEL SERVICES	404,000	611,256	423,329	629,712
	TOTAL POSITIONS	6	10	7	10
4160	MEALS, MILEAGE, UNIFORM A	1,000	5,600	4,792	5,600
4460	OTHER MATERIALS & SUPPLIE	22,000	16,900	22,000	26,000
4470	PARTS AND ACCESSORIES	61,000	60,000	58,000	74,000
4500	EDUCATION & TRAINING	1,000	4,800	4,720	9,600
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4805	REPAIR AND MAINT OF STRUC	19,000	-	-	-
4815	REPAIR AND MAINT OF EQUIP	6,000	12,000	12,000	18,000
8050	EQUIPMENT UNDER \$5,000	8,000	52,000	49,880	56,100
	TOTAL MATERIAL & SUPPLIES	118,000	152,300	151,392	190,800
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	522,000	763,556	574,721	820,512

Section's Activity

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

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER SYSTEM OPERATIONS DIVISION

Plant Operations Branch

Technical Services and Control Center Section

5615 - Control Center Unit

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	466,000	611,160	521,331	635,592
4120	OVERTIME	120,000	110,000	109,594	110,000
4130	MISC PAYROLL COSTS	-	4,000	-	4,000
	TOTAL PERSONNEL SERVICES	586,000	725,160	630,924	749,592
	TOTAL POSITIONS	9	12	11	12
4160	MEALS, MILEAGE, UNIFORM A	6,000	6,000	5,181	6,000
4500	EDUCATION & TRAINING	-	4,800	3,720	9,600
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
8050	EQUIPMENT UNDER \$5,000	1,000	3,500	3,500	3,000
	TOTAL MATERIAL & SUPPLIES	7,000	15,300	12,401	20,100
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	593,000	740,460	643,325	769,692

Section's Activity

The Pumps – 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.

Materials, Supplies and Services

4470 Provisions for parts and air conditioning units, pump and well control electronic conversion, pressure recorder parts, small electric motors, solenoid valves, electronic controls, motor line starters, etc.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER SYSTEM OPERATIONS DIVISION

Plant Operations Branch

Technical Services and Control Center Section

5616 - Technical Services Unit

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	323,000	483,180	581,437	801,893
4120	OVERTIME	12,000	24,000	15,732	24,000
4130	MISC PAYROLL COSTS	2,000	24,800	-	28,800
	TOTAL PERSONNEL SERVICES	337,000	531,980	597,168	854,693
	TOTAL POSITIONS	5	9	13	17
4160	MEALS, MILEAGE, UNIFORM A	-	2,600	2,400	2,600
4460	OTHER MATERIALS & SUPPLIE	19,000	24,000	21,200	60,000
4470	PARTS AND ACCESSORIES	22,000	30,000	27,000	40,000
4500	EDUCATION & TRAINING	-	4,800	1,500	9,600
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4805	REPAIR AND MAINT OF STRUC	5,000	10,000	5,000	-
4815	REPAIR AND MAINT OF EQUIP	37,000	54,000	44,400	54,000
8050	EQUIPMENT UNDER \$5,000	8,000	17,900	16,000	61,400
	TOTAL MATERIAL & SUPPLIES	91,000	144,300	117,500	229,100
1270	GENERAL PLANT & EQUIPMENT	-	-	-	55,000
	TOTAL EQUIPMENT	-	-	-	55,000
	TOTAL OPERATING EXPENDITURES	428,000	676,280	714,668	1,138,793

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 multi-function telemetry and supervisory control systems and mobile radio systems.

Materials, Supplies and Services

- 4250 Hazardous material disposal; contracted radio work; tower antenna replacement
- 4470 Replacement parts and accessories required for continued upgrading of telemetry and supervisory control system (SCADA system) and the Board's mobile radio system.
- 4670 Lease charges for telephone lines used for telemetry and supervisory control networks.
- 4815 Service and maintenance contracts for the fire alarm system and the UPS (Uninterrupted Power Supply) system.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

WATER SYSTEM OPERATIONS DIVISION
5620 - Telecommunications Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	221,000	546,414	479,276	623,748
4120	OVERTIME	28,000	36,000	27,116	36,000
4130	MISC PAYROLL COSTS	-	12,000	-	12,000
	TOTAL PERSONNEL SERVICES	249,000	594,414	506,392	671,748
	TOTAL POSITIONS	4	10	9	11
4160	MEALS, MILEAGE, UNIFORM A	-	2,000	-	2,000
4250	OTHER CONTRACTUAL SERVICE	18,000	66,000	63,000	102,000
4460	OTHER MATERIALS & SUPPLIE	10,000	12,000	12,000	12,000
4470	PARTS AND ACCESSORIES	63,000	72,000	74,000	72,000
4500	EDUCATION & TRAINING	-	2,400	-	2,400
4670	TELEMETERING	191,000	240,000	214,000	240,000
4720	CONFERENCE EXPENSES	-	1,000	-	1,500
4815	REPAIR AND MAINT OF EQUIP	8,000	24,000	21,000	24,000
8050	EQUIPMENT UNDER \$5,000	295,000	356,000	351,000	343,000
	TOTAL MATERIAL & SUPPLIES	585,000	775,400	735,000	798,900
1270	GENERAL PLANT & EQUIPMENT	-	177,000	-	192,000
	TOTAL EQUIPMENT	-	177,000	-	192,000
	TOTAL OPERATING EXPENDITURES	834,000	1,546,814	1,241,392	1,662,648

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.

Materials, Supplies and Services

- 4250 Repair of automotive equipment; load tests; towing services; fire extinguisher costs; software updates; etc.
- 4440 Direct purchases of automotive parts, tires, and tire services, etc.
- 4460 Paint, cleaners, antifreeze, wire, sheet iron, decals, miscellaneous parts for shop equipment, etc.
- 4470 Direct purchases of construction equipment parts.
- 4815 Costs of repairs to transmissions, accident damages, windshields and windows, upholstery, radiators, front suspensions, etc

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

**WATER SYSTEM OPERATIONS DIVISION
5660 - Automotive Branch**

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	949,000	1,209,512	1,091,686	1,279,250
4120	OVERTIME	9,000	13,000	11,747	13,000
4130	MISC PAYROLL COSTS	1,000	16,920	-	16,900
	TOTAL PERSONNEL SERVICES	959,000	1,239,432	1,103,433	1,309,150
	TOTAL POSITIONS	19	23	21	24
4160	MEALS, MILEAGE, UNIFORM A	-	1,800	1,200	1,800
4250	OTHER CONTRACTUAL SERVICE	111,000	171,600	168,300	171,600
4267	PRINTED FORMS	-	100	100	100
4410	GASOLINE	783,000	990,000	995,500	990,000
4430	MISC SUPPLIES	1,000	1,200	100	1,200
4440	MOTOR VEHICLE PARTS & ACC	379,000	408,900	473,000	432,000
4460	OTHER MATERIALS & SUPPLIE	87,000	88,800	84,400	88,800
4470	PARTS AND ACCESSORIES	41,000	48,400	59,000	48,400
4500	EDUCATION & TRAINING	3,000	17,200	7,500	16,400
4720	CONFERENCE EXPENSES	2,000	800	800	800
4805	REPAIR AND MAINT OF STRUC	4,000	-	3,000	4,000
4815	REPAIR AND MAINT OF EQUIP	55,000	73,800	63,600	73,800
4910	MISC FEES & REGISTRATIONS	2,000	2,100	2,300	2,100
8050	EQUIPMENT UNDER \$5,000	7,000	16,300	19,000	12,300
	TOTAL MATERIAL & SUPPLIES	1,475,000	1,821,000	1,877,800	1,843,300
1270	GENERAL PLANT & EQUIPMENT	1,389,000	1,687,100	1,525,200	2,077,100
	TOTAL EQUIPMENT	1,389,000	1,687,100	1,525,200	2,077,100
	TOTAL OPERATING EXPENDITURES	3,823,000	4,747,532	4,506,433	5,229,550

Division's Activity

The Information Technology Division designs, develops, maintains, and supports BWS databases; software systems; server workstation hardware and software; network telephone; and call center systems.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

INFORMATION TECHNOLOGY DIVISION - TOTAL

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST	FY 2016 BUDGET
4110	REGULAR SALARIES	2,144,618	3,230,546	2,410,388	3,525,392
4120	OVERTIME	235,969	323,087	185,977	279,600
4130	MISC PAYROLL COSTS	-	175,166	1,600	62,772
	TOTAL PERSONNEL SERVICES	2,380,587	3,728,799	2,597,965	3,867,764
	TOTAL POSITIONS	35	54	37	54
4160	MEALS, MILEAGE, UNIFORM A	699	15,540	110	3,600
4250	OTHER CONTRACTUAL SERVICE	1,990,493	3,133,010	3,277,700	5,508,300
4251	SOFTWARE LICENSES & MAINT.	-	1,733,212	651,754	1,813,350
4265	PRINTING	-	-	-	5,000
4430	MISC SUPPLIES	1,927	7,700	3,717	6,500
4460	OTHER MATERIALS & SUPPLIE	81,611	85,360	93,729	109,210
4470	PARTS AND ACCESSORIES	158	5,000	19,700	13,200
4480	POSTAGE	1,165,000	1,180,208	960,100	1,120,800
4500	EDUCATION & TRAINING	21,949	131,220	61,024	139,400
4650	SECURITY CAMERA CABLE LIN	64,089	60,396	60,000	-
4720	CONFERENCE EXPENSES	21,967	56,315	30,600	57,115
4805	REPAIR AND MAINT OF STRUC	610	-	-	-
4815	REPAIR AND MAINT OF EQUIP	801,123	204,899	160,501	204,500
4910	MISC FEES & REGISTRATIONS	174	-	-	200
8050	EQUIPMENT UNDER \$5,000	202,716	381,434	506,000	383,400
	TOTAL MATERIAL & SUPPLIES	4,352,516	6,994,294	5,824,935	9,364,575
1270	GENERAL PLANT & EQUIPMENT	448,981	730,998	442,100	414,900
	TOTAL EQUIPMENT	448,981	730,998	442,100	414,900
	TOTAL OPERATING EXPENDITURES	7,182,084	11,454,091	8,865,000	13,647,239

Section's Activity

The Administration Section provides administrative support services for the Information Technology Division.

Materials, Supplies and Services

4250 IT security consulting services; Gartner Group advisory services

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

INFORMATION TECHNOLOGY DIVISION
5805 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST	FY 2016 BUDGET
4110	REGULAR SALARIES	262,944	330,704	335,602	398,852
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	262,944	330,704	335,602	398,852
	TOTAL POSITIONS	3	4	4	4
4250	OTHER CONTRACTUAL SERVICE	12,390	300,000	252,400	150,000
4430	MISC SUPPLIES	987	3,000	520	1,200
4460	OTHER MATERIALS & SUPPLIE	208	-	5,660	3,600
4500	EDUCATION & TRAINING		1,600	-	1,600
4720	CONFERENCE EXPENSES	6,828	14,465	14,000	14,465
4910	MISC FEES & REGISTRATIONS	174	-	-	200
8050	EQUIPMENT UNDER \$5,000	2,442	-	500	15,000
	TOTAL MATERIAL & SUPPLIES	23,029	319,065	273,080	186,065
1270	GENERAL PLANT & EQUIPMENT	-	-	200	-
	TOTAL EQUIPMENT	-	-	200	-
	TOTAL OPERATING EXPENDITURES	285,973	649,769	608,882	584,917

Section's Activity

The Application Systems Development Section is responsible for providing computer services in all commercial and business applications for the department including the customer information system, water and sewer billings, payroll, accounts payable and cost accounting systems.

Materials, Supplies and Services

4250 Consultant services for CIS support; printing and mailing services; Kronos enhancements

4251 Software licenses and maintenance support (Oracle JD Edwards, CC&B, IBM Maximo, Logica Mosaic. etc.)

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

INFORMATION TECHNOLOGY DIVISION
5820 - Application Systems Development Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST	FY 2016 BUDGET
4110	REGULAR SALARIES	602,705	906,768	598,349	978,804
4120	OVERTIME	190,629	273,488	175,091	222,000
4130	MISC PAYROLL COSTS	-	115,914	1,600	42,000
	TOTAL PERSONNEL SERVICES	793,334	1,296,170	775,039	1,242,804
	TOTAL POSITIONS	9	16	9	16
4160	MEALS, MILEAGE, UNIFORM A	304	15,540	70	3,600
4250	OTHER CONTRACTUAL SERVICE	666,991	200,000	834,200	3,000,800
4251	SOFTWARE LICENSES & MAINT.	-	893,100	415,600	980,700
4430	MISC SUPPLIES	360	1,200	600	1,200
4460	OTHER MATERIALS & SUPPLIE	35	-	400	-
4500	EDUCATION & TRAINING	-	60,120	10,000	60,000
4720	CONFERENCE EXPENSES	-	15,100	5,000	15,900
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	TOTAL MATERIAL & SUPPLIES	667,690	1,185,060	1,265,870	4,062,200
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	1,461,024	2,481,230	2,040,909	5,305,004

Section's Activity

The Operations Support Section is responsible for planning, scheduling, administrating and coordinating the department's computer services operations (machine processing).

Materials, Supplies and Services

- 4250 Contract services for wireless and camera maintenance; voice and data lines; Microsoft product support
- 4251 Microsoft Product Support, Cisco ISE and Prime, etc
- 4480 Postage for monthly water bills
- 4815 Maintenance and service agreements for computer hardware and software.

**BOARD OF WATER SUPPLY
ANNUAL BUDGET
FISCAL YEAR 2016**

INFORMATION TECHNOLOGY DIVISION
5830 - Operations Support Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST	FY 2016 BUDGET
4110	REGULAR SALARIES	751,969	1,338,084	916,833	1,465,776
4120	OVERTIME	45,340	39,999	10,540	54,000
4130	MISC PAYROLL COSTS	-	37,980	-	-
	TOTAL PERSONNEL SERVICES	797,309	1,416,063	927,373	1,519,776
	TOTAL POSITIONS	14	22	16	23
4160	MEALS, MILEAGE, UNIFORM A	365	-	40	-
4250	OTHER CONTRACTUAL SERVICE	1,135,985	2,159,010	1,776,100	1,807,500
4251	SOFTWARE LICENSES & MAINT.	-	661,362	704,228	599,100
4430	MISC SUPPLIES	222	3,000	2,250	3,600
4460	OTHER MATERIALS & SUPPLIE	80,796	84,950	86,700	104,400
4470	PARTS AND ACCESSORIES	158	5,000	19,700	13,200
4480	POSTAGE	1,165,000	1,180,008	960,100	1,120,800
4500	EDUCATION & TRAINING	21,909	63,000	44,524	69,300
4650	SECURITY CAMERA CABLE LIN	64,089	60,396	60,000	-
4720	CONFERENCE EXPENSES	6,139	-	2,000	-
4805	REPAIR AND MAINT OF STRUC	610	-	-	-
4815	REPAIR AND MAINT OF EQUIP	801,000	204,099	160,001	197,700
8050	EQUIPMENT UNDER \$5,000	191,000	373,134	505,500	361,300
	TOTAL MATERIAL & SUPPLIES	3,467,273	4,793,959	4,321,143	4,276,900
1270	GENERAL PLANT & EQUIPMENT	432,000	719,998	441,900	414,900
	TOTAL EQUIPMENT	432,000	719,998	441,900	414,900
	TOTAL OPERATING EXPENDITURES	4,696,582	6,930,020	5,690,416	6,211,576

Section's Activity

The Technical Engineering Projects Section is responsible for providing computer services in engineering applications covering all branches of engineering such as civil, structural, hydraulics, and surveying earthwork; GIS; and other technical operational applications.

Materials, Supplies and Services

- 4250 GIS consulting services; hydraulic modeling technical support; GIS web application maintenance.
- 4251 ESRI software licenses and support maintenance.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

INFORMATION TECHNOLOGY DIVISION
5835 - Technical Engineering Projects Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST	FY 2016 BUDGET
4110	REGULAR SALARIES	527,000	654,990	559,604	681,960
4120	OVERTIME	-	9,600	346	3,600
4130	MISC PAYROLL COSTS	-	21,272	-	20,772
	TOTAL PERSONNEL SERVICES	527,000	685,862	559,951	706,332
	TOTAL POSITIONS	9	12	9	11
4160	MEALS, MILEAGE, UNIFORM A	30	-	-	-
4250	OTHER CONTRACTUAL SERVICE	175,127	474,000	415,000	550,000
4251	SOFTWARE LICENSES & MAINT.	-	178,750	156,975	233,550
4430	MISC SUPPLIES	358	500	347	500
4460	OTHER MATERIALS & SUPPLIE	572	410	969	1,210
4480	POSTAGE	-	200	-	-
4500	EDUCATION & TRAINING	40	6,500	6,500	8,500
4720	CONFERENCE EXPENSES	9,000	26,750	9,600	26,750
4815	REPAIR AND MAINT OF EQUIP	123	800	500	6,800
8050	EQUIPMENT UNDER \$5,000	9,274	8,300	-	7,100
	TOTAL MATERIAL & SUPPLIES	194,524	696,210	589,891	839,410
1270	GENERAL PLANT & EQUIPMENT	16,981	11,000	-	-
	TOTAL EQUIPMENT	16,981	11,000	-	-
	TOTAL OPERATING EXPENDITURES	738,505	1,393,072	1,149,842	1,545,742

Division'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.

Details of expenditures are shown in each section.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FINANCE DIVISION - TOTAL

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	2,289,209	2,778,128	2,325,346	2,661,888
4120	OVERTIME	248,689	274,326	148,703	271,900
4130	MISC PAYROLL COSTS	6,301	35,000	-	40,821
	TOTAL PERSONNEL SERVICES	2,544,200	3,087,454	2,474,048	2,974,609
	TOTAL POSITIONS	58	66	51	56
4160	MEALS, MILEAGE, UNIFORM A	17,420	8,900	9,000	7,500
4220	COLLECTION FEES	427	-	-	-
4250	OTHER CONTRACTUAL SERVICE	7,850	14,400	143,400	7,000
4260	ADV & PUBL OF NOTICES	259	1,200	-	1,000
4267	PRINTED FORMS	698	4,300	6,000	4,000
4270	PROFESSIONAL SERVICES	740,564	1,224,900	165,400	1,189,800
4430	MISC SUPPLIES	10,005	17,000	9,000	7,500
4460	OTHER MATERIALS & SUPPLIE	18,824	6,000	10,000	4,000
4480	POSTAGE	12,733	20,000	16,500	17,000
4500	EDUCATION & TRAINING	-	18,000	3,000	12,250
4720	CONFERENCE EXPENSES	703	-	7,200	3,200
4815	REPAIR AND MAINT OF EQUIP	2,814	13,500	1,500	2,500
4910	MISC FEES & REGISTRATIONS	5,331	3,000	11,000	4,000
4915	MISCELLANEOUS FINANCIAL E	2,104,460	855,600	1,978,500	1,276,500
8050	EQUIPMENT UNDER \$5,000	16,998	16,000	4,000	29,450
	TOTAL MATERIAL & SUPPLIES	2,939,399	2,202,800	2,364,500	2,565,700
1270	GENERAL PLANT & EQUIPMENT	35,000	85,000	18,000	35,000
	TOTAL EQUIPMENT	35,000	85,000	18,000	35,000
	TOTAL OPERATING EXPENDITURES	5,518,599	5,375,254	4,856,548	5,575,309

Section's Activity

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

Materials, Supplies and Services

4270 Annual financial audit; bond compliance services

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FINANCE DIVISION
5900 - Administration

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	342,321	264,276	391,932	326,100
4120	OVERTIME	-	1,000	-	-
4130	MISC PAYROLL COSTS	3,142	-	-	-
	TOTAL PERSONNEL SERVICES	345,463	265,276	391,932	326,100
	TOTAL POSITIONS	4	3	5	4
4250	OTHER CONTRACTUAL SERVICE	693	2,400	1,000	1,000
4260	ADV & PUBL OF NOTICES	259	1,200	-	1,000
4267	PRINTED FORMS	162	1,800	-	-
4270	PROFESSIONAL SERVICES	-	165,400	165,400	331,800
4430	MISC SUPPLIES	8,482	14,400	9,000	6,000
4460	OTHER MATERIALS & SUPPLIE	23	-	-	-
4480	POSTAGE	1,669	-	1,500	2,000
4500	EDUCATION & TRAINING	-	12,000	2,000	2,000
4720	CONFERENCE EXPENSES	703	-	7,200	3,200
4815	REPAIR AND MAINT OF EQUIP	199	3,000	-	1,000
4910	MISC FEES & REGISTRATIONS	5,331	2,700	4,000	4,000
8050	EQUIPMENT UNDER \$5,000	657	6,500	2,000	1,000
	TOTAL MATERIAL & SUPPLIES	18,178	209,400	192,100	353,000
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	363,641	474,676	584,032	679,100

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.

Materials, Supplies and Services

4270 Investment advisor fees.

4915 Bond administration fees, escrow agent fees and SRF loan administrative fees.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FINANCE DIVISION

5910 - Treasury Branch

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	85,429	138,240	100,953	149,712
4120	OVERTIME	16,796	5,326	10,251	10,800
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	102,225	143,566	111,204	160,512
	TOTAL POSITIONS	1	2	1	2
4160	MEALS, MILEAGE, UNIFORM A	745	500	500	500
4270	PROFESSIONAL SERVICES	740,564	1,059,500	-	858,000
4430	MISC SUPPLIES	-	100	-	-
4910	MISC FEES & REGISTRATIONS	-	300	-	-
4915	MISCELLANEOUS FINANCIAL E	2,104,460	855,600	1,977,000	1,255,000
8050	EQUIPMENT UNDER \$5,000	-	2,250	-	-
	TOTAL MATERIAL & SUPPLIES	2,845,769	1,918,250	1,977,500	2,113,500
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	2,947,994	2,061,816	2,088,704	2,274,012

Section's Activity

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

Materials, Supplies and Services

4480 postage for departmental correspondence

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FINANCE DIVISION

Treasury Branch

5915 - Revenue & Customer Accounting Section (5380)

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	1,147,156	1,478,460	1,171,925	1,279,524
4120	OVERTIME	210,190	245,000	131,904	245,000
4130	MISC PAYROLL COSTS	2,310	35,000	-	15,988
	TOTAL PERSONNEL SERVICES	1,359,656	1,758,460	1,303,829	1,540,512
	TOTAL POSITIONS	40	44	34	34
4160	MEALS, MILEAGE, UNIFORM A	15,733	7,200	8,000	6,000
4250	OTHER CONTRACTUAL SERVICE	7,157	12,000	142,400	6,000
4430	MISC SUPPLIES	1,523	2,000	-	1,000
4440	MOTOR VEHICLE PARTS & ACC	313	-	-	-
4460	OTHER MATERIALS & SUPPLIE	4,829	6,000	4,000	4,000
4470	PARTS AND ACCESSORIES	-	-	-	-
4480	POSTAGE	11,060	20,000	15,000	15,000
4500	EDUCATION & TRAINING	-	5,000	-	1,000
4815	REPAIR AND MAINT OF EQUIP	1,824	10,000	1,000	1,000
4910	MISC FEES & REGISTRATIONS	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	12,778	3,250	-	23,500
	TOTAL MATERIAL & SUPPLIES	55,217	65,450	170,400	57,500
1270	GENERAL PLANT & EQUIPMENT	35,000	85,000	18,000	35,000
	TOTAL EQUIPMENT	35,000	85,000	18,000	35,000
	TOTAL OPERATING EXPENDITURES	1,449,873	1,908,910	1,492,229	1,633,012

Section's Activity

The Financial Planning, Consulting, and Analysis Section performs technical reviews to analyze, develop, and evaluate procedures and controls for budget, financial and management accounting systems and directs their implementation; and directs the development and maintenance of financial policies and procedures, accounting manuals, instructions and procedural guides.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FINANCE DIVISION

5920 - Financial Planning, Consulting & Analysis

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	84,955	-	-	-
4120	OVERTIME	10,140	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	95,096	-	-	-
	TOTAL POSITIONS	1	-	-	-
4160	MEALS, MILEAGE, UNIFORM A	276	-	-	-
4250	OTHER CONTRACTUAL SERVICE	-	-	-	-
4251	SOFTWARE LICENSES & MAINT.	-	-	-	-
4255	OTHER SERVICES	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	TOTAL MATERIAL & SUPPLIES	276	-	-	-
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	95,372	-	-	-

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.

Materials, Supplies and Services

4267 . payroll tax forms

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FINANCE DIVISION

5930 - General Accounting

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	499,403	568,572	501,840	641,160
4120	OVERTIME	11,310	23,000	6,548	16,100
4130	MISC PAYROLL COSTS	849	-	-	24,833
	TOTAL PERSONNEL SERVICES	511,562	591,572	508,388	682,093
	TOTAL POSITIONS	10	11	9	11
4160	MEALS, MILEAGE, UNIFORM A	630	1,200	500	1,000
4220	COLLECTION FEES	427	-	-	-
4267	PRINTED FORMS	536	2,500	6,000	4,000
4430	MISC SUPPLIES	-	500	-	500
4460	OTHER MATERIALS & SUPPLIE	380	-	-	-
4480	POSTAGE	4	-	-	-
4500	EDUCATION & TRAINING	-	1,000	1,000	1,000
4815	REPAIR AND MAINT OF EQUIP	791	500	500	500
8050	EQUIPMENT UNDER \$5,000	3,563	1,000	2,000	4,950
	TOTAL MATERIAL & SUPPLIES	6,331	6,700	11,500	33,450
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	517,893	598,272	519,888	715,543

Section's Activity

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

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FINANCE DIVISION

5940 - Fiscal Services

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	129,945	284,820	149,801	209,628
4120	OVERTIME	253	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	130,198	284,820	149,801	209,628
	TOTAL POSITIONS	2	5	3	4
4160	MEALS, MILEAGE, UNIFORM A	36	-	-	-
4250	OTHER CONTRACTUAL SERVICE	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	13,592	-	6,000	-
4500	EDUCATION & TRAINING	-	-	-	-
4910	MISC FEES & REGISTRATIONS	-	-	7,000	-
8050	EQUIPMENT UNDER \$5,000	-	3,000	-	-
	TOTAL MATERIAL & SUPPLIES	13,628	3,000	13,000	-
1270	GENERAL PLANT & EQUIPMENT	-	-	-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	143,826	287,820	162,801	209,628

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.

**BOARD OF WATER SUPPLY
OPERATING BUDGET
FISCAL YEAR 2016**

FINANCE DIVISION

5950 - Systems Accounting

OBJECT ACCOUNT	OBJECT DESCRIPTION	FY 2014 ACTUALS	FY 2015 BUDGET	FY 2015 ACTUALS & FCST.	FY 2016 BUDGET
4110	REGULAR SALARIES	-	43,760	8,894	55,764
4120	OVERTIME	-	-	-	-
4130	MISC PAYROLL COSTS	-	-	-	-
	TOTAL PERSONNEL SERVICES	-	43,760	8,894	55,764
	TOTAL POSITIONS	-	1	0	1
4160	MEALS, MILEAGE, UNIFORM A	-	-	-	-
4460	OTHER MATERIALS & SUPPLIE	-	-	-	-
4500	EDUCATION & TRAINING	-	-	-	8,250
4720	CONFERENCE EXPENSES	-	-	-	-
8050	EQUIPMENT UNDER \$5,000	-	-	-	-
	TOTAL MATERIAL & SUPPLIES	-	-	-	8,250
1270	GENERAL PLANT & EQUIPMENT			-	-
	TOTAL EQUIPMENT	-	-	-	-
	TOTAL OPERATING EXPENDITURES	-	43,760	8,894	64,014



PART II

CAPITAL IMPROVEMENT PROGRAM BUDGET

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Summary by Project and Cost Categories		Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
I. Research and Development	Total	<u>2,400,000</u>	<u>-</u>	<u>500,000</u>	<u>-</u>	<u>2,900,000</u>
II. Renewal and Replacement						
A. Pumps		13,721,790	-	-	2,978,210	16,700,000
B. Reservoirs		-	-	-	-	-
C. Pipelines		10,040,000	-	6,600,000	-	16,640,000
D. Treatment		-	-	-	-	-
E. Facilities		18,015,000	-	-	-	18,015,000
	Total	<u>41,776,790</u>	<u>-</u>	<u>6,600,000</u>	<u>2,978,210</u>	<u>51,355,000</u>
III. Capacity Expansion						
A. Pumps		-	3,350,000	-	-	3,350,000
B. Reservoirs		-	-	-	-	-
C. Pipelines		-	-	-	-	-
D. Treatment		600,000	-	-	-	600,000
E. Facilities		4,475,000	-	7,000,000	-	11,475,000
	Total	<u>5,075,000</u>	<u>3,350,000</u>	<u>7,000,000</u>	<u>-</u>	<u>15,425,000</u>
Total - Categories I - III		49,251,790	3,350,000	14,100,000	2,978,210	69,680,000
Construction Cost Index Adjustment		3,477,500	300,000	1,410,000	-	5,187,500
Contract Adjustment Account		8,800,000	-	-	-	8,800,000
FY 2016 Capital Improvement Program		<u>61,529,290</u>	<u>3,650,000</u>	<u>15,510,000</u>	<u>2,978,210</u>	<u>83,667,500</u>

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
I. Research and Development								
1.	Energy Savings Performance Contracting (ESPC) - BWS Facilities	Implement an ESPC project on BWS facilities with a goal of reducing energy demand by 20%	Const	-	-	500,000	-	500,000
2.	Red Hill Groundwater Monitoring Wells	Construct monitor wells surrounding the Navy Red Hill Underground Fuel Storage Facility to monitor the movement of fuel constituents toward BWS drinking water wells and provide hydrologic data that will inform groundwater modeling	Const	400,000				400,000
3.	Construction Management For Various BWS Construction Projects	Provide construction management and training services for selected BWS construction projects	P&E	1,000,000				1,000,000
4.	Beretania Site Master Plan	Prepare a master plan for the future redevelopment of the BWS Beretania property	P&E	500,000				500,000
5.	Haiku Stairs Removal	Prepare preliminary engineering study, environmental assessment and a CDUP application for the removal of the stairs	P&E	500,000				500,000
Total Category I - Research and Development				2,400,000	-	500,000	-	2,900,000

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
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II. Renewal and Replacement

A. Pumps

6. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	Const	1,500,000					1,500,000
7. Keanu Line Booster: Replace Pumping Units	Replace all three (3) existing pump units including pumps, motors, discharge head assemblies, valves, flow tube, and all above-ground piping and components. The construction work will be properly sequenced to maintain two (2) pumps in service at all times. Replace center-guided check valves with new tilting-disc check valves. Install mute structure if feasible. Replace/relocate MCC from existing weather-proof enclosures and install new into existing pump building; remove existing equipment from existing pump building. Install new solid-state soft-	Const	1,850,000					1,850,000
8. Wahiawa Wells Unit 3 Rehabilitation	Rehabilitate well unit 3 by extending existing well casing (drill and clear existing bore, drill additional 100 feet, install steel casing, transition casing and video log)	Const	375,000					375,000
9. Barbers Point Line Booster Improvements	Replace pumps and motors, discharge piping and valves, MCC, wiring and appurtenances	Const	21,790				2,978,210	3,000,000
10. Kalihi Pump Station Low and High Service Renovation	Replace pumps, motors, discharge piping, valves, MCC, wiring and chlorinator	Const	9,475,000					9,475,000
11. Pump Renewal and Replacement	Renewal and replacement of various BWS pumps and plant facilities.	P&E	500,000					500,000
A. Pumps - Total			13,721,790		-	-	2,978,210	16,700,000

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
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B. Reservoirs

B. Reservoirs - Total

-	-	-	-	-
-	-	-	-	-

C. Pipelines

12. Anoi Road Water System Improvements	Install 8-inch main and appurtenances along Anoi Road from end to end; along Kealahala Road from Kamehameha Highway to Kealahala Place, along Kamehameha Highway from Kahuhipa Street to Keole Street and along Luana Place from Paleka Road to end - approx. 5,850 lin. ft.	Const			6,600,000		6,600,000
13. Mailili Road 20-Inch Main	Rehabilitation of 20-inch main along Mailili Road from Paakea Road to Luaualei Homestead Road - approx. 3,700 lin. ft.	Const	2,000,000				2,000,000
14. Fire Hydrant Installations at Various Locations	Fire hydrant installations at various locations.	Const	300,000				300,000
15. Water Main Installation & Replacement	Install and replace water mains at various locations.	Const	100,000				100,000

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
16.	Makakilo Water System Improvements, Part III	Install 8-inch mains and appurtenances along Nohopono Street from Lihau Street to Palailai Street, along Nohopaa Street from Lihau Street to Palailai Street, along Nohona Street from Lihau Street to Palailai Street, along Nenelea Street from Lihau Street to Palailai Street, along Newa Street from Makakilo Drive to Palailai Street, along Newa Place from Newa Street to end, along Lihau Street from Palailai Street to Newa Street, along Palailai Street from Nohona Street to Nohohale Street, along Nohohale Street from Palailai Street to Makakilo Drive, along Mehani Street from Akaula Street to Auwaea Street, along Mehani Place from Mehani Street to End, along Makakilo Drive from Tee near FH L02483 to Anipeahi Street and along Makakilo Drive from Tee near FH L01849 to 80' beyond FH L01850 - approx. 10,890 lin. ft. Install 4-inch mains and appurtenances along Nohohale Street from Makakilo Drive to Palailai Place - approx. 845 lin. ft.	P&E	850,000				850,000

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total	
17.	Kalihi Water System Improvements, Part VI	Install 12-inch mains and appurtenance along Gulick Avenue from King Street to School Street - approx. 2,940 lin. ft. Install 8-inch mains and appurtenances along Gulick Avenue from N. School Street to 66' S/W of Puaala Lane, along Ulana Street from Owawa Street to 78' S/E of FH-M7178, along Uhu Street from Gulick Avenue to end, along Kealoha Street from Gulick Avenue to Nakuina Street, along Nakuina Street from Kealoha Street to Beckley Street, along Beckley Street from Gulick Avenue to Kalihi Street, along Kalihi Street from King Street to end of 6" near FH M2379, along Kaili Street from King Street to Beckley Street, along Kopke Street from King Street to Pacheco Street and along Pacheco Street from Kopke Street to Gulick Avenue - approx. 7,480 lin. ft. Install 4-inch mains and appurtenance along Beckley Place from Beckley Street to end, along Day Place from Kalihi Street to end and along Ulana Place from Ulana Street to end - approx. 575 lin. ft. Install 2-inch mains and appurtenances along	P&E	940,000					940,000
18.	Haleahi and Paheehee Road 12-Inch and 8-Inch Mains	Install 12-inch mains and appurtenances along Haleahi Road from the existing check valves to TMK 8-5-004:126 - approx. 1,135 lin. ft. Install 8-inch mains and appurtenances along Haleahi Road from TMK 8-5-004:126 to Paheehee Road and along Paheehee Road from Puhawai Street to Haleahi Road - approx. 6,910 lin. ft.	P&E	550,000					550,000
19.	Waiau Water System Improvements, Part II	Install 12-inch mains and appurtenances along the private lanes within Hillside Subdivisions I and II - approx. 1,900 lin. ft. Install 8-inch mains and appurtenances along the private lanes within Hillside Subdivisions I to IV - approx. 1,235 lin. ft.	P&E	240,000					240,000

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
20.	North School Street Water System Improvements	Install 16-inch mains and appurtenance along N. School Street from Kam IV Road to Houghtailing Street - approx. 4,510 lin. ft. Install 8-inch mains and appurtenances along Ahonui Street from N. School Street to Linapuni Street, along Hulali Place from Ahonui Street to end, along N. School Street from Amelia Street to Lailani Street, along N. School Street from Likelike Highway to Houghtailing Street, along Amelia Street from N. School Street to Waikoe Road, along Waikoe Road from Amelia Street to Martin Street, along Martin Street from N. School Street to Waikoe Road - approx. 5,920 lin. ft.	P&E	840,000				840,000
21.	Pearl City Water System Improvements, Part IV	Install 12-inch mains and appurtenances along Huikahi Street from Hoolehua Street to Hoolaulea Street - approx. 940 lin. ft. Install 8-inch mains and appurtenances along Palamoi Street from Kuahaka Street to end of 8" main near FH L02004, along Panee Street from Palamoi Street to Kaweloka Street, along Kaweloka Street from Panee Street to Palamoi Street, along Kalauipo Street from Kaweloka Street to Palamoi Street, along Kalauipo Place from Kalauipo Street to end, along Kalai Place from Kalauipo Street to end, along Maiha Circle from Waimano Home Road to end, along Maiha Place from Maiha Circle to end, along Hooihohoi Street from Hoomoana Street to end, along Hooihohoi Place from Hooihohoi Street to end, along Hooae Street from Hooihohoi Street to Hooelele Street, along Hoomalolo Street from Hoomoana Street to Hoolaulea Street, along Hooelele Street from Hoolaulea Street to Hoomalolo Street, along Hoomoana Street from Komo Mai Drive to Hookeikei Street, along Komo Mai Drive from Hoolehua Street to Hoolaulea Street and along	P&E	1,250,000				1,250,000

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
22.	Keolu Hills Water System Improvements, Part II	Install 12-inch mains and appurtenances along Keolu Drive from Akumu Street to Naniiali Street, along Akumu Street from Keolu Drive to Alahaki Street, along Iana Street from Keolu Drive to FH W00766, and along Keolu Drive from Kanapuu Drive to Akalani Loop - approx. 3,580 lin. ft. Install 8-inch mains and appurtenances along Akumu Street from Alahaki Street to Holoholo Street, along Keolu Drive from Akalani Loop to Akahai Street, along Akahai Street from Keolu Drive to Akamai Street, along Akaiki Street from Akahai Street to Akamai Street and along Halula Place from Akumu Street to end - approx. 4,265 lin. ft. Install 4-inch mains and appurtenances along Akumu Place from Akumu Street to end, along Akiu Place from Akumu Street to end and along Akalei Place from Akumu Street to end - approx. 540 lin. ft.	P&E	620,000				620,000
23.	Lanakila Water System Improvements	Install 8-inch mains and appurtenances along Palama Street from Panalaau Street to N. School Street, along Alaneo Street from N. School Street to Kuakini Street, along Lanakila Avenue from N. School Street to Kunawai Lane, along N. Judd Street from Kunawai Lane to Apio Lane, and along Kamaka Lane from Lanakila Avenue to Kunawai Lane - approx. 7,100 lin. ft.	P&E	530,000				530,000
24.	Pauoa Water System Improvements	Install 8-inch mains and appurtenances along Lusitana Street from Pauoa Road to Concordia Street, along Auwaiohimu Street from Lusitana Street to Tantalus Drive, along Kanealii Avenue from Pauoa Road to Kapalu Street, along Boyd Lane from Lusitana Street to end, and along Kapaloala Place from FH M06992 to Pauoa Road - approx. 8,100 lin. ft. Transfer services along Ohelo Lane from Lusitana Street to end to the 405 system.	P&E	600,000				600,000

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
25.	Ala Aolani 12-Inch Main	Install 12-inch mains and appurtenances along Ala Aolani Street from the 16-inch cross country main to Ala Aolao Loop - approx. 4,300 lin. ft. Install 8-inch mains and appurtenances along Ala Aolao Loop from Ala Aolani Street to Ala Aolani Street along Ala Mahina Place from Ala Aolao Loop to end, and along Ala Makani Place from Ala Aolao Loop to end - approx. 2,930 lin. ft. Install 4-inch mains and appurtenances along Ala Aolao Place from Ala Aolao Loop to end, along Ala Makani Way from Ala Aolao Loop to end, and along two unnamed places from Ala Aolao Loop to end - approx. 420 lin. ft.	P&E	570,000				570,000
26.	Fire Hydrant Installations at Various Locations	Fire hydrant installations at various locations.	P&E	400,000				400,000
27.	Water Main Installation & Replacement	Install and replace water mains at various locations.	P&E	100,000				100,000
28.	Service Lateral Replacement at Various Locations	Replace plastic service laterals at various location	P&E	150,000				150,000
C. Pipelines - Total				10,040,000	-	6,600,000	-	16,640,000

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
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D. Treatment

D. Treatment - Total

-	-	-	-	-
-	-	-	-	-

E. Facilities

29. Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	Const	3,000,000	-	-	-	3,000,000
30. Storm Water Management Plan Improvements	Install improvements to eliminate pollutant runoff from BWS corporation yards	Const	500,000	-	-	-	500,000
31. Security Fencing at Various Locations	Install expanded metal fencing at selected BWS facilities.	Const	600,000	-	-	-	600,000
32. Emergency Generator Project	Install permanent emergency generators and harden pump appurtenances at selected BWS sources	Const	7,200,000	-	-	-	7,200,000
33. Mauna Olu 530 Reservoir Improvements	Install staff gauge, water level transducer and datalogger, telemetry equipment and controls, and appurtenant utilities	P&E	50,000	-	-	-	50,000
34. Computerized Maintenance Management System	Plan, Design and Implement Enhancements to accommodate WSO operations.	P&E	2,375,000	-	-	-	2,375,000
35. Future Meter Reading Technology	Evaluate various meter reading technologies	P&E	300,000	-	-	-	300,000
36. Waimanalo Tunnels I and II and Waianae Plantation Tunnel III Renovation	Investigate and assess tunnel conditions and prepare plans and specifications for improvements needed to reactivate tunnels	P&E	300,000	-	-	-	300,000
37. Nalu Enhancement	Modify/Enhance financial accounting system software to address functional requirement for Finance, Procurement, etc., as was previously identified during the JDE Upgrade project.	P&E	1,640,000	-	-	-	1,640,000
38. Document Management System	Assess, design and assist in the development of solution selection and project specs for a Document Management System.	P&E	100,000	-	-	-	100,000

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
39.	Data Center Renovation Project	Assess, design and construct layout changes to the Data Center to more effectively utilize the floor space given the decommissioning and removal of the DEC VAX. Repositioning/relocation of equipment racks, power and data conduits/cables, Halon system changes, and movement of existing, and construction of new walls/doors are included.	P&E	250,000	-	-	-	250,000
40.	Security Enhancements at BWS Corporation Yards	Prepare plans and specifications, and perform life cycle cost analysis to install fencing and card access for Kalihi, Manana, Waianae, Wahiawa, Heeia Corporation Yards; Halawa Xeriscape Garden and Beretania Complex	P&E	200,000	-	-	-	200,000
41.	Waipio Acres Control Valve Improvements	Install isolation valves for system operations and emergency pumping connection to allow 808 system to supply 1075 system. Relocate existing PRV at Melemanu 808 Reservoir to Waikalani Drive.	P&E	300,000	-	-	-	300,000
42.	Professional Services for BWS Projects	Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others.	P&E	600,000	-	-	-	600,000
43.	Facility Repair and Renovation	Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	P&E	400,000	-	-	-	400,000
44.	Security Fencing at Various Locations	Install expanded metal fencing at selected BWS facilities.	P&E	200,000	-	-	-	200,000
E. Facilities - Total				18,015,000	-	-	-	18,015,000
Total Category II - Renewal and Replacement				41,776,790	-	6,600,000	2,978,210	51,355,000

III. Capacity Expansion

A. Pumps

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
45.	Lualualei Line Booster Improvements	Install booster station improvements to increase pumping capacity	Const	-	3,000,000	-	-	3,000,000
46.	Mililani 994 Booster Station	Install booster station at the Mililani 994 Reservoir to boost to 1150 system	P&E	-	350,000	-	-	350,000
A. Pumps - Total				-	3,350,000	-	-	3,350,000
B. Reservoirs								
B. Reservoirs - Total				-	-	-	-	-
C. Pipelines								
C. Pipelines - Total				-	-	-	-	-
D. Treatment								
47.	GAC Facility Improvements	Install improvements at select GAC facilities to extend use of existing systems	Const	500,000	-	-	-	500,000
48.	GAC Facility Improvements	Install improvements at select GAC facilities to extend use of existing systems	P&E	100,000	-	-	-	100,000
D. Treatment - Total				600,000	-	-	-	600,000
E. Facilities								
49.	Honouliuli Water Recycling Facility Improvements	Install new disk filter and UV system to improve operational efficiency and increase treatment capacity	Const	-	-	7,000,000	-	7,000,000
50.	Security Camera Systems	Install computer network-based security camera systems (camera, lights, speakers and motion detectors) at critical pump stations and reservoirs.	Const	375,000	-	-	-	375,000
51.	Backup Power Systems for Wireless Systems	Provide backup power for wireless, RTU and security camera systems at BWS facilities	Const	2,400,000	-	-	-	2,400,000

Board of Water Supply
Capital Improvement Program Budget
FY 2016

Item No.	Project Title	Description	Type	Operating Fund	Special Expendable Fund	State Revolving Fund	Reserve Release Fund	Total
52.	Wireless & Security Camera Systems	Upgrade existing wireless and security camera systems, install backup wireless links, and update wireless and security camera system drawings and documentation	Const	1,200,000	-	-	-	1,200,000
53.	Security Camera Management System	Replace existing security camera management system. This system provides security video monitoring, alarming, recording, search and playback software	P&E	500,000	-	-	-	500,000
E. Facilities - Total				4,475,000	-	7,000,000	-	11,475,000
Total Category III - Capacity Expansion				5,075,000	3,350,000	7,000,000	-	15,425,000
Total Categories I - III				49,251,790	3,350,000	14,100,000	2,976,210	69,680,000
Construction Cost Index Adjustment				3,477,500	300,000	1,410,000	-	5,187,500
Contract Adjustment Account				8,800,000	-	-	-	8,800,000
FY 2016 Capital Improvement Program - Total				61,529,290	3,650,000	15,510,000	2,976,210	83,667,500

"May 26, 2015

ADOPTION OF
RESOLUTION
NO. 856, 2015

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

Chair and Members:

Subject: Adoption of Resolution No. 856, 2015, Acceptance of Gift
to the Board of Water Supply from Hawaiian Earth Products,
Incorporated, in Support of the 2015 Annual Halawa
Xeriscape Garden Open House and Unthirsty Plant Sale

We recommend acceptance of the proposed gift to the Board of Water Supply (BWS), City and County of Honolulu, from Hawaiian Earth Products, Incorporated, in support of our 2015 Annual Halawa Xeriscape Garden Open House and Unthirsty Plant Sale. The donor's total value of this gift is \$917.00.

The BWS's Annual Halawa Xeriscape Garden Open House and Unthirsty Plant Sale continues to be a successful public outreach program that focuses on the importance of outdoor water efficiency. Studies show that more than 30 percent of residential water use occurs outdoors, so it makes sense for the BWS to promote ways to achieve water savings in this area, which in turn can reduce the customer's combined water and wastewater bill. This event gives the BWS the opportunity to carry this out on a large scale.

This donation from Hawaiian Earth Products, Incorporated, will help the BWS provide free soil conditioner compost to Plant Sale visitors and encourage them to incorporate some of the techniques they learn at the event into their own home gardens.

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

Respectfully submitted,

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

Attachment"

DISCUSSION

Information Officer Shawn Nakamoto provided the report. There were no comments or discussion.

MOTION TO
ADOPT
RESOLUTION
NO. 856, 2015

Ross Sasamura motioned to adopt Resolution No. 856, 2015, Acceptance of Gift to the Board of Water Supply from Hawaiian Earth Products, Incorporated, in Support of the 2015 Annual Halawa Xeriscape Garden Open House and Unthirsty Plant Sale. The motion was seconded by Theresia McMurdo and unanimously carried.

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 856, 2015

ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY
FROM HAWAIIAN EARTH PRODUCTS, INCORPORATED,
IN SUPPORT OF THE
2015 ANNUAL HALAWA XERISCAPE GARDEN OPEN HOUSE
AND UNTHIRSTY PLANT SALE

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

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

WHEREAS, Hawaiian Earth Products, Incorporated, is offering a gift of 25 cubic yards of Soil Conditioner Compost, totaling \$917.00 for the BWS to give away to the public at the 2015 Annual Halawa Xeriscape Garden Open House and Unthirsty Plant Sale; and

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

BE IT RESOLVED that the Board of Water Supply hereby accepts the gift valued at \$917.00 and directs the Manager and Chief Engineer, or his delegate, to accept and thank the donor for this gift.

ADOPTED:



DUANE R. MIYASHIRO
Chair

Honolulu, Hawaii
May 26, 2015

RESOLUTION NO. 856, 2015, ACCEPTANCE OF GIFT TO THE BOARD OF WATER SUPPLY FROM HAWAIIAN EARTH PRODUCTS, INCORPORATED, IN SUPPORT OF THE 2015 ANNUAL HALAWA XERISCAPE GARDEN OPEN HOUSE AND UNTHIRSTY PLANT SALE, ADOPTED ON MAY 26, 2015

	AYE	NO	COMMENT
DUANE R. MIYASHIRO	X		
ADAM C. WONG	X		
THERESIA C. MCMURDO	X		
DAVID C. HULIHEE	X		
KAPUA SPROAT			ABSENT
ROSS S. SASAMURA	X		
FORD N. FUCHIGAMI	X		

APPROVAL
OF THE
REVISION OF
CIP BUDGET-
AMENDMENT
NO. 3

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

Chair and Members:

Subject: Approval of the Revision of the 2014-2015 Capital
Improvement Program Budget – Amendment No. 3

We recommend the current Capital Improvement Program (CIP) Budget be amended as described below:

		<u>Appropriation</u>	
		<u>Present</u>	<u>Proposed</u>
1.	Add the following CIP project and appropriation:		
	<u>Item No. 40A</u> ROOSEVELT BRIDGE: 12-INCH RECYCLED WATER MAIN		
	OPERATING FUND	P&E ---	75,000
		CONST ---	325,000

The State of Hawaii Department of Transportation (DOT) is initiating the refurbishment of the Roosevelt Bridge. The Board of Water Supply (BWS) plans to replace the existing pipeline as part of this refurbishment project and enter into a utility agreement with the DOT.

2. Reduce the appropriation for the following CIP project:

Item No. 56 CUSTOMER INFORMATION
SYSTEM

OPERATING FUND	P&E	3,000,000	262,857
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The funds programmed for this project was budgeted at \$3,000,000 but only \$262,857 will be used. The balance will be programmed into the Contract Adjustment Account.

3. Delete the following CIP projects and appropriations:

Item No. 7 KAMAILE WELLS
RENOVATION

OPERATING FUND	CONST	1,400,000	---
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The State of Hawaii/State Historic Preservation District continues to review the archaeological inventory survey of the site prepared for this project which is located within a culturally significant area. The

State's final recommendation will likely impact the design of the site improvements. The plans and specifications for this project cannot be completed in time for advertisement in fiscal year 2015. Once the design is finalized, this project will be budgeted for construction.

Appropriation
Present Proposed

Item No. 58 NALU ENHANCEMENT

OPERATING FUND	P&E	765,000	---
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This project to implement enhancements to the financial information system is being deferred and will be programmed in fiscal year 2016.

Item No. 59 IT PROJECT
MANAGEMENT

OPERATING FUND	P&E	1,400,000	---
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This project is no longer needed as a result of how the Information Technology (IT) Division approaches applications projects. Project management is now incorporated into the consultant's scope of work, rather than as a separate item to be contracted out to another consultant.

Item No. 72 SECURITY CAMERA
MANAGEMENT SYSTEM

OPERATING FUND	P&E	500,000	---
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This project to replace the current security camera management system is being deferred and will be programmed in fiscal year 2016.

4. Increase the CIP Contract Adjustment Account:

OPERATING FUND	5,020,000	11,422,143
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The appropriate pages of the current Capital Improvement Program budget will be revised for distribution.

Respectfully submitted,

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

DISCUSSION

Mr. Lau gave the report. Mr. Miyashiro asked for an explanation on Item No. 4. Mr. Lau explained that the CIP contract adjustment account is a contingency fund used for projects that require additional funding. For

example, funds would be used from this account if bids come in higher than anticipated. Bids will still go out through the end of this FY which ends June 30, 2015, so this fund would be tapped if bids come in higher. At the end of FY 2015, the remainder of funds in this account will carry over to FY 2016 to be used on projects budgeted in FY 2016. Board Member Wong inquired how the contingency fund for construction projects is budgeted. Mr. Takaki responded that contingency for overages on construction projects are put into a construction index account and overages on design projects are funded from the contract adjustment account. Mr. Takaki stated that they budget for specific anticipated project change orders to come up with the amount budgeted in the contract adjustment account. Mr. Wong asked if these amounts shown in the contract adjustment account are already programmed into the FY 2016 budget. Mr. Morita replied yes, the carry over amounts are programmed into the revenue picture so they start off with a bigger beginning balance and add on the projected revenues. Mr. Lau added that the carry over includes a debt service operating reserve, so it's actually a smaller amount being carried over. Board Member McMurdo asked that if the adjustment account is increased to cover bids that come in higher, why this account is being doubled when there is only one more month left in the FY. Mr. Lau responded that they don't feel they can get these projects out and completed for various reasons so rather than letting the funds lapse, they are proposing to put it in this adjustment account. Mr. Takaki added that they have already expended the construction cost index account, so they will need to tap into the contract adjustment account. They will also be tapping into this account for the design contracts' overages. Board Member Fuchigami stated his understanding that funds are being added to this account late in the FY and the funds will get carried over to the next FY, but monies will be available depending on when the bids come in. Mr. Wong asked if there is a cause and effect between why projects have been deleted and the increase in the contingency fund. Mr. Lau responded that there is no cause and effect between the two. Either the need for the project is no longer there or some projects need to be deferred. Ms. McMurdo stated that she finds it strange that they approved the FY 2016 budget that already has a contingency fund, but yet whatever isn't expended from FY 2015 is carried over to FY 2016. Board Member Hulihee stated his understanding that the starting balance for FY 2016 would include this carryover. Mr. Lau stated that because there's about a month left in FY 2015, that starting cash balance in FY 2016 is an estimate. After June 30, they'll know the actual amount expended and will have an actual carry over amount.

MOTION TO
APPROVE
REVISION OF
CIP BUDGET -
AMENDMENT
NO. 3

Ford Fuchigami and Ross Sasamura motioned and seconded, respectively, to approve the Revision of the 2014-2015 Capital Improvement Program Budget - Amendment No. 3.

DISCUSSION

Mr. Wong stated that he has a concern that there is a trend of deferring many projects that are budgeted. He requested to have a report at the next meeting of all deferred projects from the last three fiscal years. Mr. Lau stated that they would have that report presented at July's Board meeting, which is after the close of FY 2015.

The motion was unanimously carried.

REVISION OF THE 2014-2015 CAPITAL IMPROVEMENT PROGRAM BUDGET – AMENDMENT NO. 3 WAS APPROVED AT THE MAY 26, 2015 BOARD MEETING			
	AYE	NO	COMMENT
DUANE R. MIYASHIRO	X		
ADAM C. WONG	X		
THERESIA C. MCMURDO	X		
DAVID C. HULIHEE	X		
KAPUA SPROAT			ABSENT
ROSS S. SASAMURA	X		
GLENN M. OKIMOTO	X		

"May 26, 2015

TOPICS FOR
FUTURE BOARD
MEETINGS

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

Chair and Members:

Subject: Topics for Future Board Meetings

We would like to take this time to allow the members of the Board to inform us of any topic or concern pertaining to Board of Water Supply operations that the Board would want addressed at future Board Meetings.

There are two pending topics, as follows, that were requested by the Board:

1. Update on Cyber Security, which will be presented at a future Board meeting after the Department completes its review.
2. Update on Water Conservation Issues. The targeted date to present to the Board is July 27, 2015.

Respectfully submitted,

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

DISCUSSION

Mr. Lau stated that they would add Mr. Wong's request for a report of all deferred projects from the last three fiscal years. Deputy Manager Kitamura asked Mr. Wong for clarification; if he was interested only in projects that were deferred or if he was also interested in projects where the monies were reappropriated. Mr. Wong replied that he would like a summary of all deferrals and deletions and a summary of all increases to the contract adjustment account.

At Board Member Fuchigami's request, the Board took a recess at 2:45 p.m. The Board reconvened in open session at 2:48 p.m. Mr. Miyashiro stated that the matter Mr. Fuchigami wished to address would not be addressed at this time.

Mr. Lau informed the Board of the two pending topics for information and stated that they would have Mr. Wong's report presented at the July Board meeting. Mr. Miyashiro reminded the Board to let him or Mr. Lau know if they would want anything added to the agenda in the future.

"May 26, 2015

REVIEW OF
NAVY STUDIES
AND REPORTS
ON RED HILL

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

Chair and Members:

Subject: Review of Navy Studies and Reports on the Red Hill
Bulk Fuel Storage Facility

Ms. Janice Marsters of Kennedy/Jenks Consultants will present a summary of their findings in Navy documents and studies on the Red Hill Bulk Fuel Storage Facility that were reviewed as part of our initial response to the January 13, 2014 fuel leak.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION

Mr. Lau informed the Board that as a result of the Red Hill Fuel Storage Facility (RHFSF) situation, BWS retained Kennedy/Jenks (KJ) as a consultant to review documents related to this facility. Mr. Lau introduced Janice Marsters of Kennedy/Jenks to present their findings.

Ms. Marsters began her presentation with the purpose and scope of their work. KJ reviewed more than 500 documents related to the tanks, releases, and Navy release response. In her presentation, she summarized their findings in four main categories of groundwater (GW) protection, GW modeling, GW monitoring, and regulatory record.

Ms. Marsters explained that the Navy's GW protection plan acknowledges that there is "currently no effective way to quickly determine where a release is occurring" and that the RHFSF presents a "significant future risk of a moderate to large release of fuel to the underlying groundwater." The GW protection plan commits the Navy to a rigorous tank inspection and maintenance program. The Navy conducts periodic inspections of all the tanks, with the stated goal of inspecting each tank at least every 20 years. KJ reviewed a number of their tank inspection reports to understand the nature of the repairs and expected life of the tanks. The January release at Tank 5 occurred after the tank was out of service for repairs. After draining

and inspecting the tank following the release, the Navy found 17 holes, calling into question the procedures for putting the tank back into service.

Review of the regulatory record for the RHFSF indicated a long history of fuel releases at the facility. In many circumstances, these were internal reports that were never reported to a regulatory agency, as they pre-date the regulations. Fuel releases have been reported in 14 of the 20 tanks over the years, and investigations have found petroleum in the basalt under 19 of the 20 tanks. Older reports did not typically contain sufficient information to determine how much product may have been released, the rate of release, or the duration of the release. Records show that in some cases, in response to these reported releases, repairs were made, but in other cases, there wasn't really any information about anything being done. Ms. Marsters concluded her presentation by discussing current regulatory oversight and possible federal regulatory changes that would affect the RHFSF.

Mr. Wong inquired about the 41 recorded incidents at the facility, and asked if corrective actions were taken in response to those incidents. Ms. Marsters replied no, most of those pre-dated the underground storage tank regulations. Ms. Marsters commented that the tank system had used what the Navy referred to as a tell-tale leak detection system. It consists of a series of piping, and if there's fuel released to that piping, they report it as a release. The Navy wasn't sure if in all cases the fuel was released to the environment. Ms. Marsters made reference to the four releases shown on the regulatory oversight slide. Three of these reported incidents were discovered not because fuel was missing from the tanks, but because the Navy encountered contamination during investigations at the tanks, or during field construction.

Mr. Lau asked Ms. Marsters if there were any records with information on releases from 1983-1998, as there seems to be a gap in reporting. Ms. Marsters responded that these were the only records of releases found. Mr. Lau inquired about the Navy's response to the State Department of Health's (DOH) requests for further information or investigation. Ms. Marsters stated that KJ's investigation showed that in some cases, DOH requested information from the Navy, but KJ did not find the follow up documents. There are several Navy documents that commit the Navy to certain actions, such as repairs to tanks or further investigation, and there's no status or outcome documented.

Mr. Wong asked Mr. Lau if he and Mr. Kawata were aware of the information provided by Ms. Marsters. Mr. Lau replied that KJ did an independent assessment, and KJ's findings were very similar to his and Mr. Kawata's conclusions. Mr. Wong asked if contamination reaches a drinking water well, will the well be out of operation forever. Mr. Lau replied that it would depend on the nature and amount of contamination. There's over 187 million gallons of fuel stored in a very old facility right over the drinking water aquifer. If there was a moderate to large fuel release and it migrated to BWS's wells, it could reach a point where treatment was unfeasible. Treatment of the well and removal of the contaminant may be possible if the

contamination levels were low. Ms. Marsters added that in the Navy's GW protection plan, they talk about a monitoring well that is upgradient from the drinking water aquifer and say that if the concentration gets to a certain level in that monitoring well, then the drinking water would become a concern and treatment should be done. Mr. Lau informed the Board that BWS received a letter from Captain Dean Tufts from the Naval Facilities Engineering Command inquiring about the availability of water from BWS's system for the Navy's needs, in the event the Navy's drinking water source becomes contaminated. Mr. Lau stated that BWS will be responding and requesting more information to clarify their request.

Ms. McMurdo asked what BWS will do with the information provided by KJ. Mr. Lau responded that the information helps build the basis of BWS's concerns. Mr. Lau mentioned that a draft Administrative Order on Consent may be coming out in the next few weeks for possible public review and comment, and BWS could use some of this information for commenting purposes. Ms. Marsters stated that when the Red Hill Task Force prepared their report, one of the Navy's comments was that they expended a lot of effort in maintenance and inspections, but it's clear that that was not the case with respect to Tank No. 5, and it would be appropriate to ask what they would do differently to make sure this doesn't happen again. Mr. Lau stated that the State Legislative session has closed and it looks like the Red Hill Task Force was reauthorized and BWS plans to remain on the Task Force.

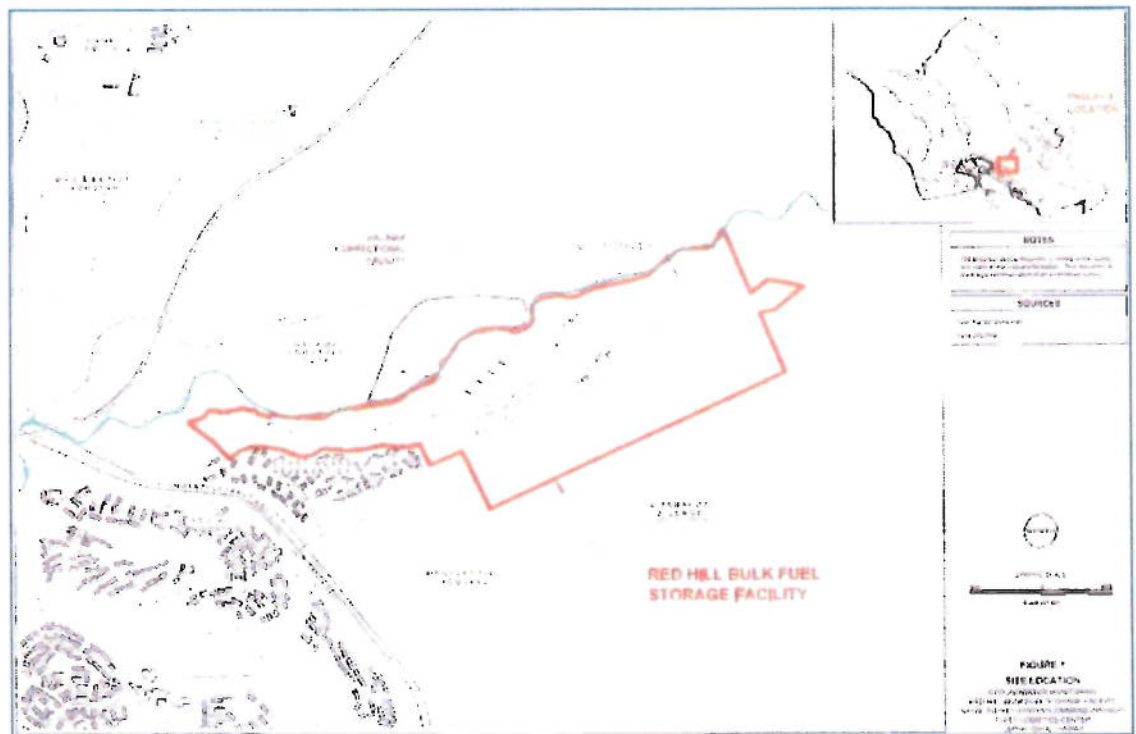


Reference Materials Review Red Hill Fuel Storage Facility

Presentation to the Honolulu Board of Water Supply
May 26, 2015

Introduction

- Purpose:
 - Assess the threat from the Navy Red Hill Fuel Storage Facility (RHFSF) to BWS drinking water sources
- Scope:
 - Reviewed more than 500 documents related to the tanks, releases, and Navy release response
 - Conducted regulatory database search for other potential sources of contamination near BWS wells





Findings summarized in 4 main categories related to:

- Groundwater Protection
- Groundwater Modeling
- Groundwater Monitoring
- Regulatory Record



GROUNDWATER PROTECTION



Navy's Groundwater Protection Plan

**Red Hill Bulk Fuel Storage Facility
Final Groundwater Protection Plan**
Pearl Harbor, Hawaii

January 2008

Prepared for:
Department of the Navy, Commander
Naval Facilities Engineering Command, Pacific
Pearl Harbor, HI 96860-3134



Indefinite Delivery/ Indefinite Quantity Contract
Contract Number N62742-02-D-1802, CTO 007

- GPP acknowledges:
 - “Currently no effective way to quickly determine where a release is occurring”
 - “The age of the Facility and the mission-critical requirements for its storage capacity combine to present a significant future risk of a moderate to large release of fuel to the underlying groundwater.”
- “Protection” measures described are related to protection of receptors in the event that groundwater is contaminated, rather than measures to protect the groundwater resource.

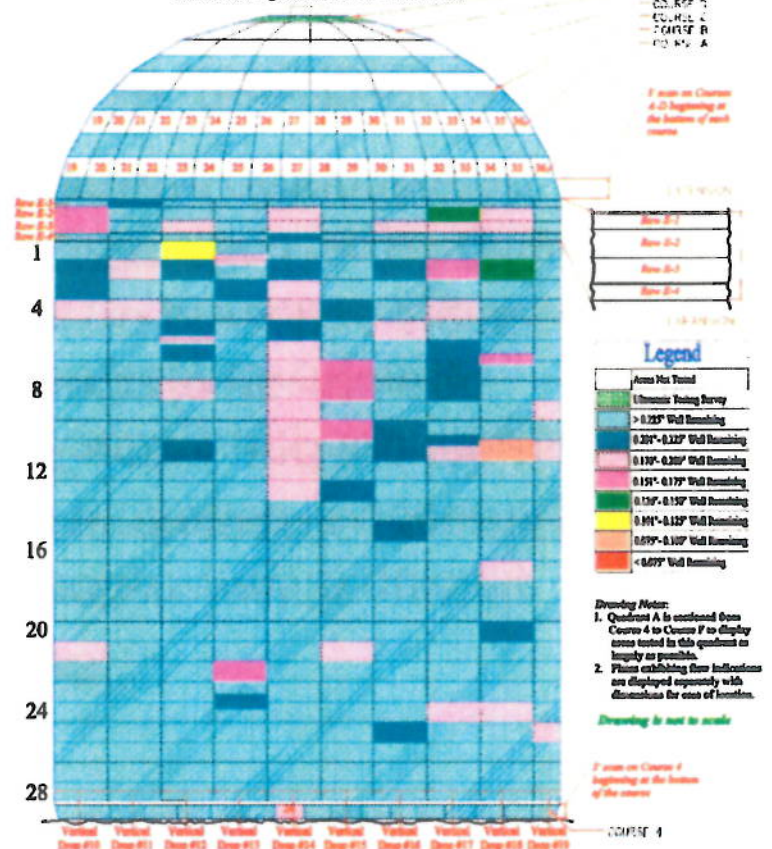
Tank Inspection/Maintenance and Groundwater Protection

- GPP commits the Navy to implementing a rigorous tank inspection and maintenance program.
- Reviewed 1998 Tank #8 inspection
 - Tested bottom plate & 1st joining shell plate and made observations of tank top
 - Found many defects (pitting, defective welds)
 - Recommended 22 repairs
 - Interior epoxy coating far beyond the typical 12-year average life for water immersion service.

3.0 TANK MAPS
Weston Solutions, Inc.
Honolulu, HI
Tank #16 - Quadrant B - Section



TANK #16 - QUADRANT B - SECTION



January 2014 Release from Tank 5

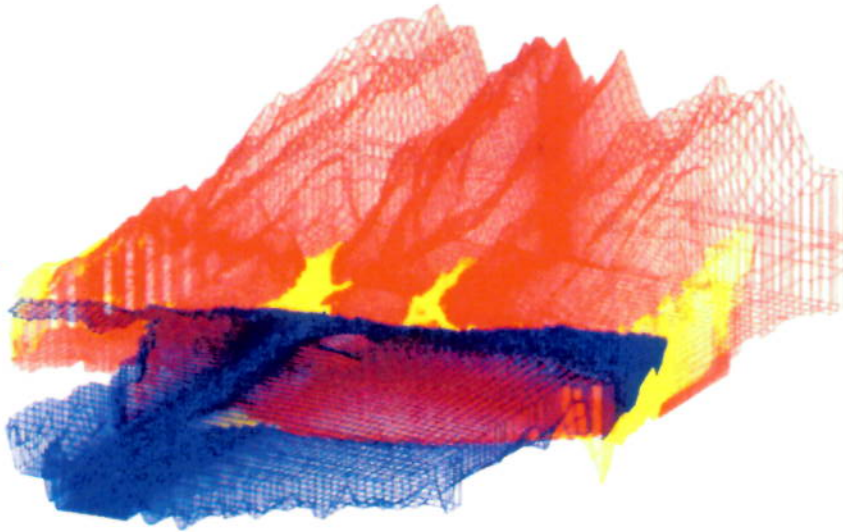
Navy investigates possible fuel leak
at Red Hill

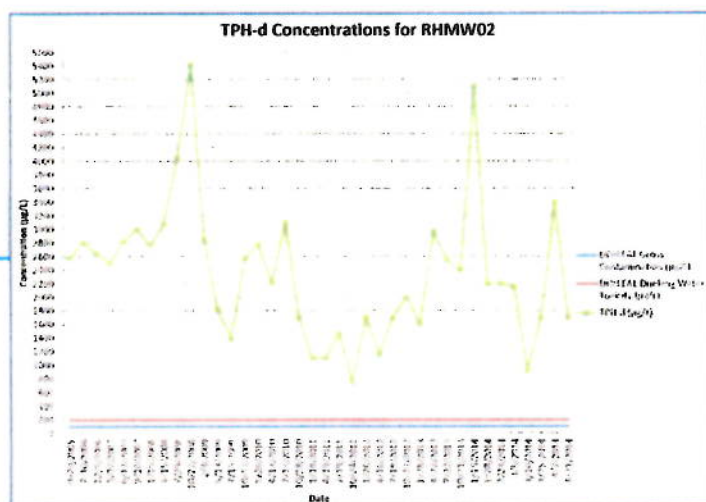


- Tank inspection and maintenance procedures
 - Tank placed back into service in Dec. 2013 after being out of service for 4 years
 - Other tanks leak tested in 2013
 - After draining and inspecting the tank following release, Navy found **17** holes
- If a post-release inspection detected these holes, why wasn't the same level of inspection conducted prior to filling the tank?



GROUNDWATER MODELING





Groundwater Modeling

- Reviewed modeling effort
- Several concerns with approach and model calibration
- Navy corrected GW elevation data in 2010 report
 - Capture zone for Halawa Shaft could intersect RHFSF
- Refuted by Rotzoll (2014) - recommended additional analysis
- Additional data that would help better delineate valley fills:
 - ✓ Surface geophysical surveys
 - ✓ Installation of new monitoring wells

**Red Hill Bulk Fuel Storage Facility
Final
Contaminant Transport Simulations Using
Numerical Models for Tier 3 Risk Evaluation
Pearl Harbor, Hawaii**

August 2007

Prepared for:

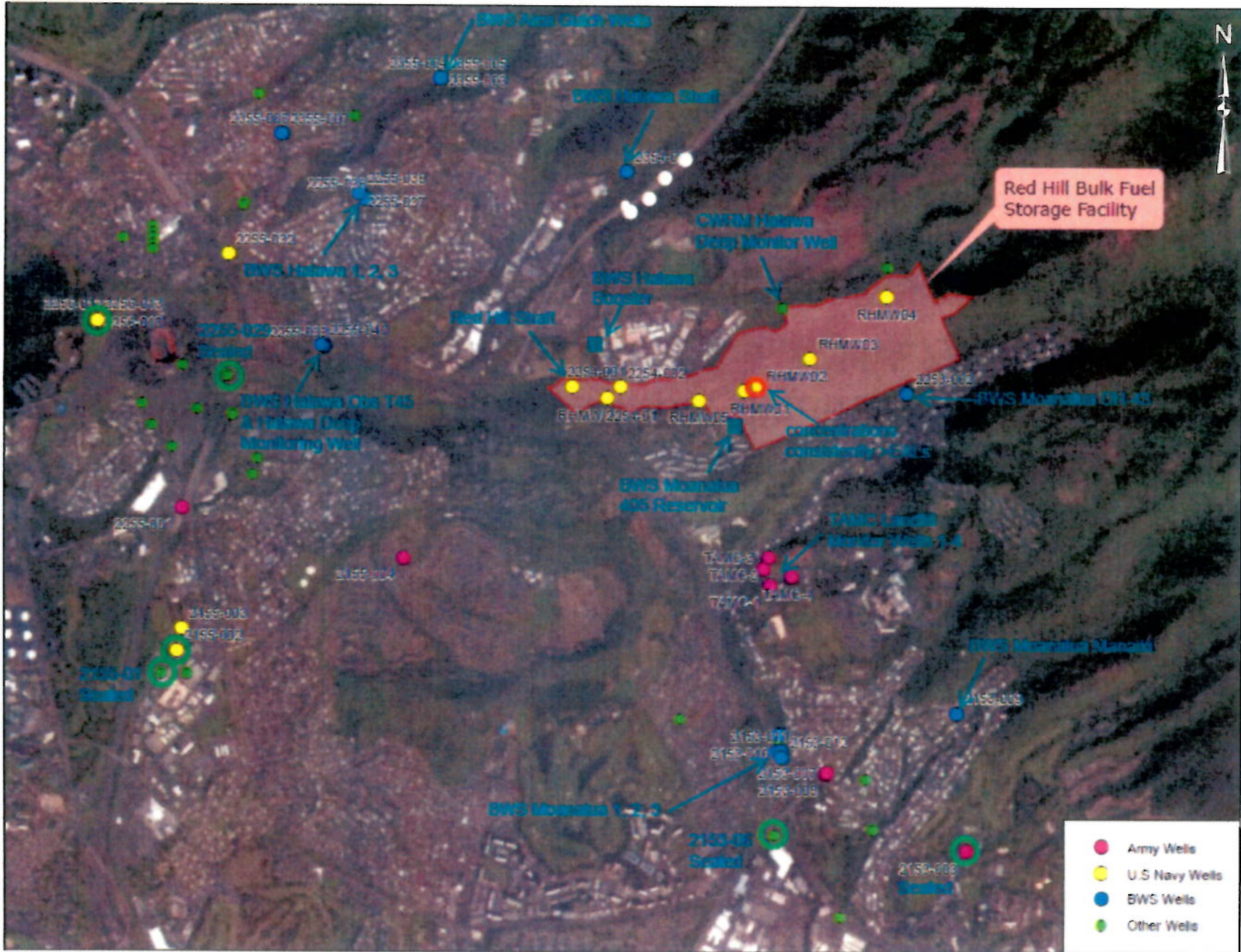


Department of the Navy
Commander
Naval Facilities Engineering Command, Pacific
258 Makalapa Drive, Suite #100
Pearl Harbor, HI 96860-3134

Prepared by:
TEC Inc.
1001 Bishop Street,
American Savings Bank Tower, Suite 1400
Honolulu, Hawaii 96813

Prepared under:
Indefinite Delivery/ Indefinite Quantity Contract
Contract Number N62742-02-D-1802, CTO 007

Red Hill Fuel Storage Facility and Oahu Wells



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Groundwater Monitoring

- Navy conducting quarterly monitoring since February 2005
- Several wells (RHMW01, RHMW03, CWRM) are screened below the water table
 - Limited effectiveness for detecting floating petroleum
- 2005 – 2014: RHMW02 (near Tank 5) has had consistent detectable concentrations of petroleum products
 - TPH-diesel always detected above DOH Action Levels
- Other wells: TPH-diesel periodically exceeds EALs

Groundwater Monitoring

- Prior to January 2014 release, Navy sought approval to cease monitoring outside wells
- At release, no monitoring wells between RHFSF and Halawa or Moanalua supply wells
- Following January 2014 release, Navy installed additional monitoring wells in Halawa Valley

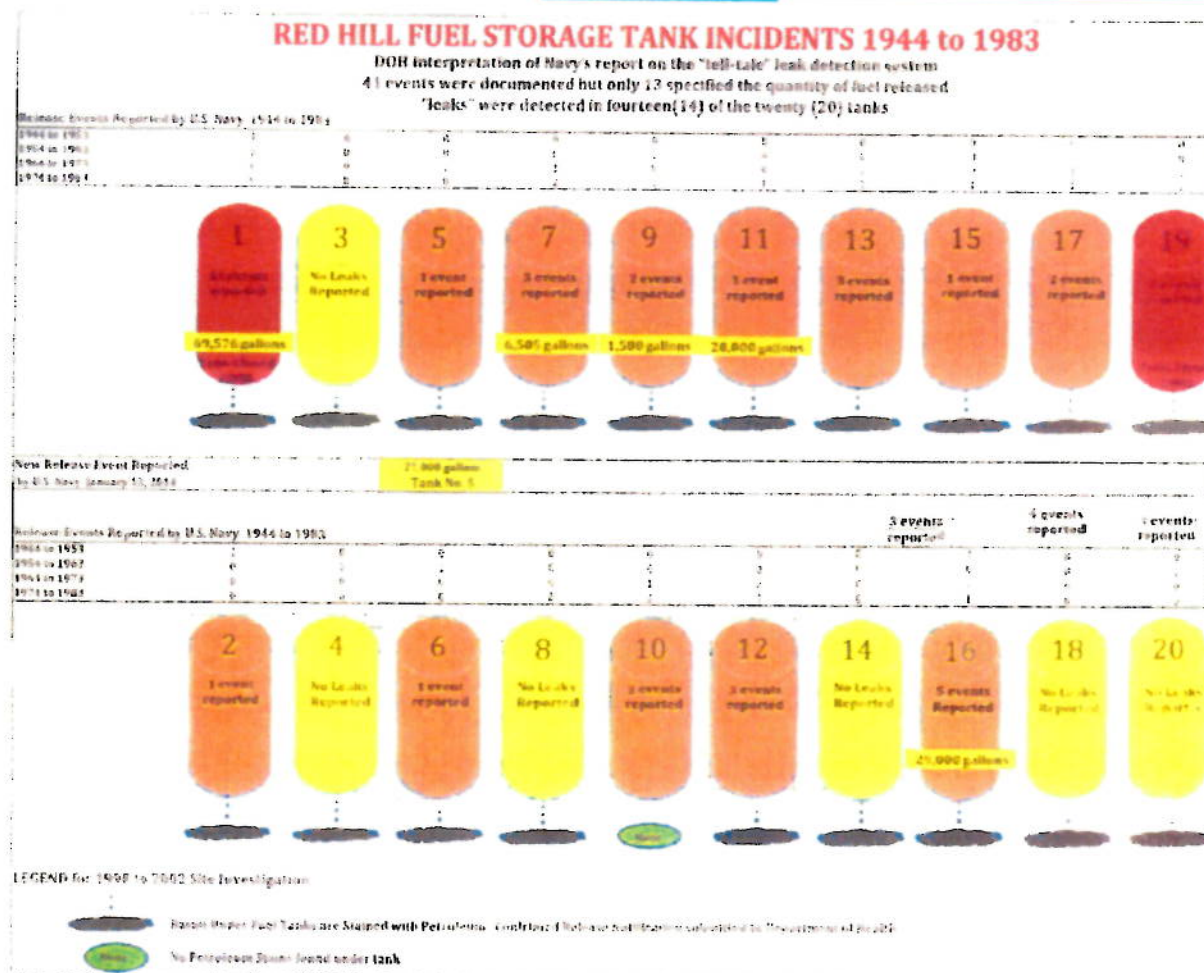




REGULATORY RECORD



History of Releases



Regulatory Oversight

- DOH Underground Storage Tank rules require strict actions after UST release, incl. defining extent of contamination
 - Not clear that all information requested by DOH was provided
 - Several documents commit Navy to certain actions, but status or outcome is not known
 - Extent of contamination not defined

HDOH Release ID	Release Date	Release Volume	Release Location
990051	October 1998	Unknown – discovered during boring beneath tank	Tank 16
010011	December 2000	Unreported – release found during “field construction”	Tank 19 (empty and out of use for 15 years)
020028	April 2002	Unreported - releases discovered during investigation of the complex	Contaminants encountered beneath all tanks except Tank 10
140010	January 13, 2014	Initial estimate of 9,000 gallons; later modified to 27,000 gallons of JP-8 fuel	Tank 5

Possible Regulatory Changes



FEDERAL REGISTER

Vol. 76 Friday,
No. 223 November 18, 2011

Part III

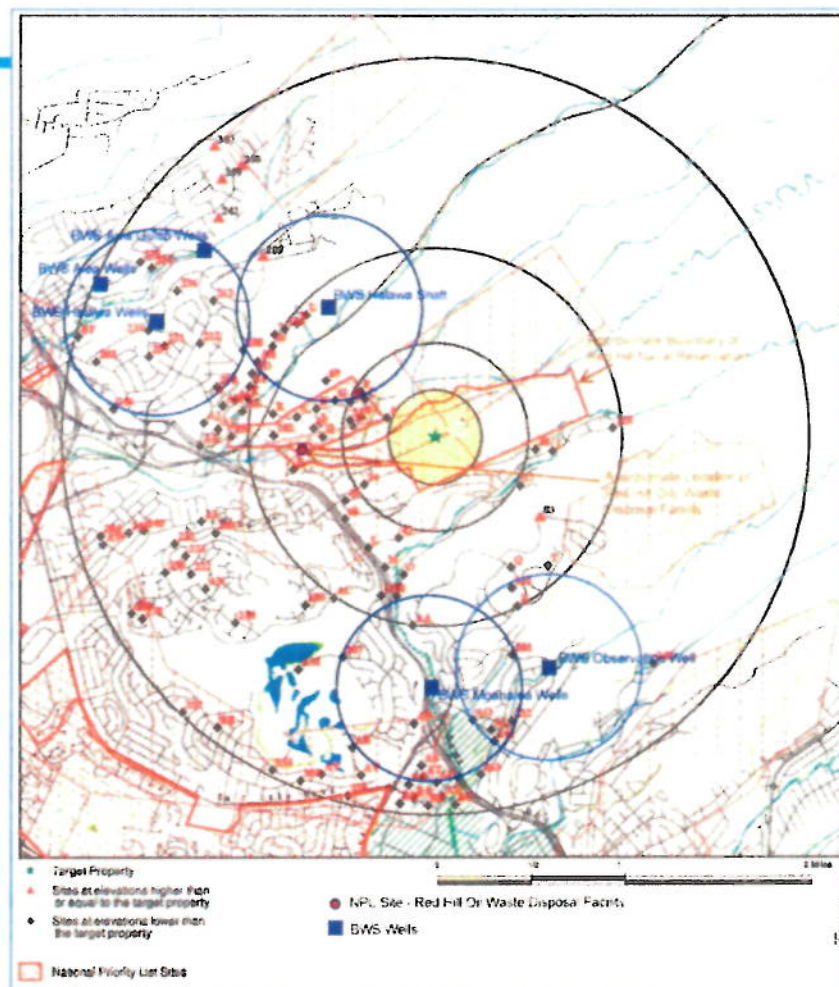
Environmental Protection Agency

40 CFR Parts 280 and 281
Revising Underground Storage Tank Regulations—Revisions to Existing
Requirements and New Requirements for Secondary Containment and
Operator Training; Proposed Rule

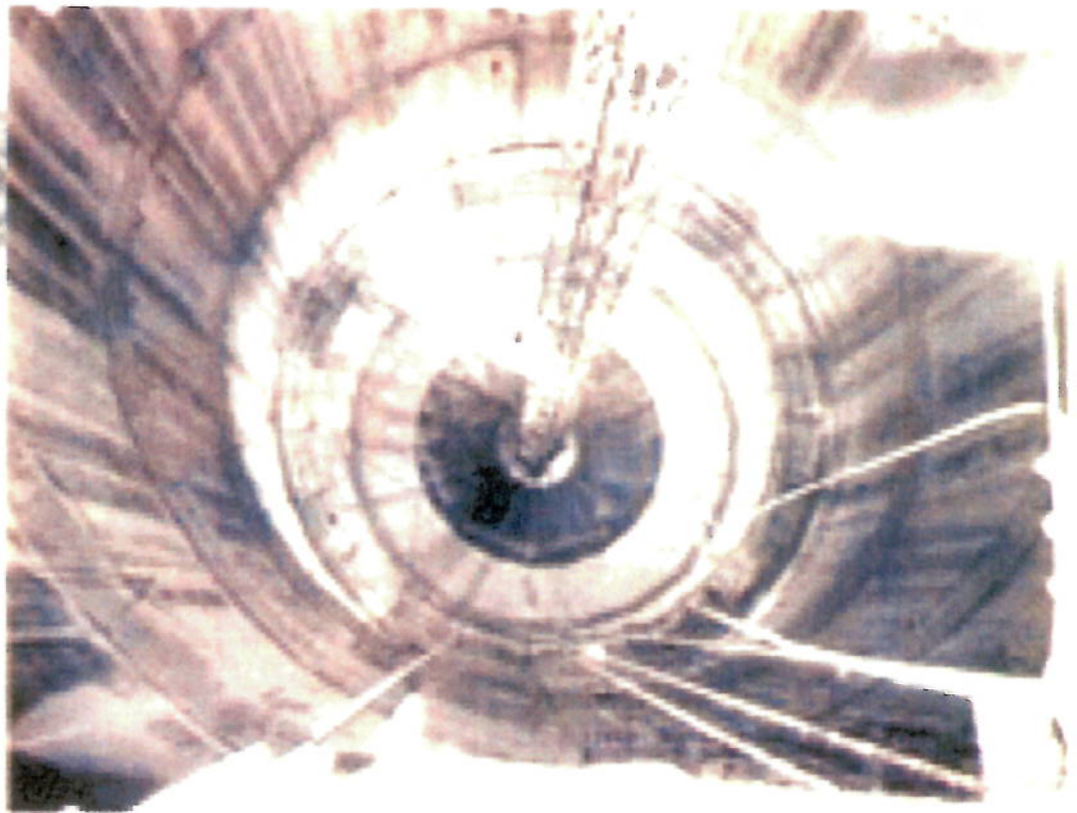
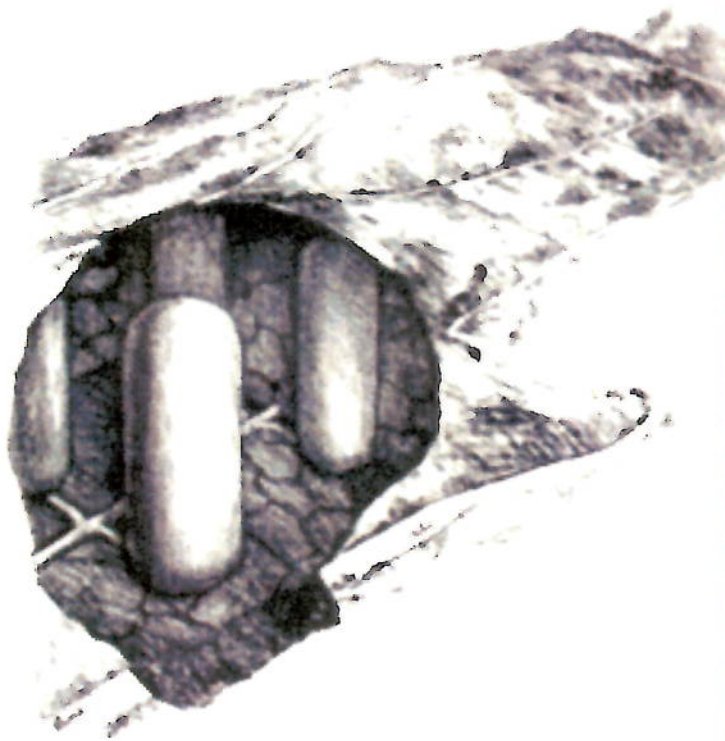
- EPA has proposed changes for field-constructed tanks; yet to be adopted
 - Tanks must meet corrosion protection, spill, overfill, and leak detection requirements
 - If adopted, *the* new UST rules will have a significant impact on the tanks at RHFSF

Regulatory Database Search

- In addition to RHFSF, many recorded releases or incidents within ½ mile of BWS wells, especially in Halawa Valley
 - More than 75 regulatory listings within one-half mile of BWS wells
 - Few potential sources of contamination that would affect basal aquifer
 - Where contamination documented, appears to have been cleaned up or to have instituted controls



Questions?



ITEM FOR INFORMATION NO. 2

"May 26, 2015

UNDERSTANDING
RESIDENT
PERCEPTIONS
OF THE BWS

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

Chair and Members:

Subject: Understanding Resident Perceptions of the Board
 of Water Supply

Ms. Rebecca Ward of Ward Research will present a summary of the customer service telephone survey and focus groups that they conducted on behalf of the Board of Water Supply.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION

Mr. Lau informed the Board that Rebecca Ward from Ward Research is ill, therefore he requested if the Board could defer this presentation to next month's meeting. Mr. Miyashiro asked if anyone from the public wanted to comment or testify on this item. There were no comments or testimony. Chair Miyashiro agreed to defer this presentation to next month.



WARD RESEARCH
INCORPORATED

Understanding Resident Perceptions of the Board of Water Supply

Prepared for:

Board of Water Supply
May 2015

Part I: Telephone Survey among Oahu Residents

Objective

To establish baseline measures of satisfaction and other key metrics related to perceptions of the Board of Water Supply and the fulfillment of its mission.

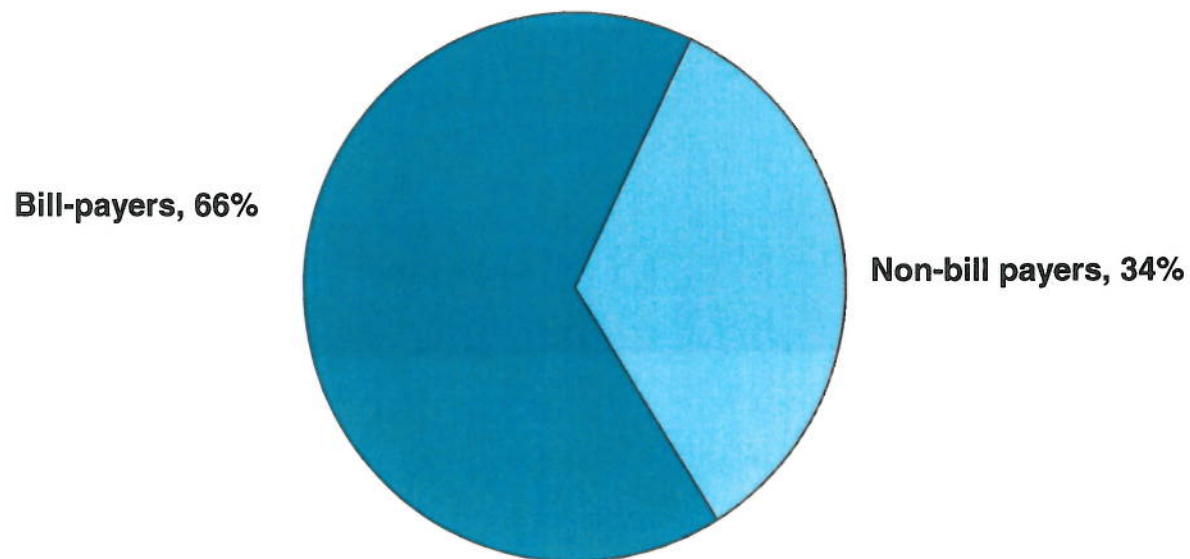
Methodology

- Telephone survey among n=685 Oahu residents
- Conducted February 5 to February 19, 2015
- Maximum sampling error is +/-3.6%
- Survey instrument developed by Ward Research with review and approval by Board of Water Supply
- Quotas set so total sample was divided among nine Council districts
- Sample demographically representative of Oahu population

Council District	# of Interviews
Council District 1	n=83
Council District 2	n=79
Council District 3	n=75
Council District 4	n=75
Council District 5	n=84
Council District 6	n=73
Council District 7	n=67
Council District 8	n=72
Council District 9	n=76
Total	n=685

Profile of Respondents

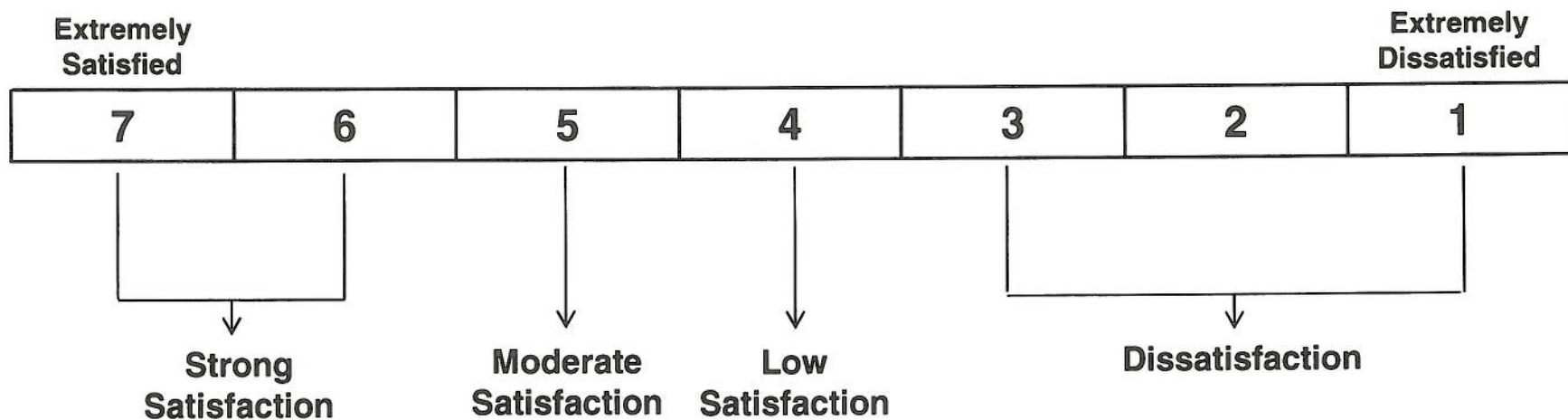
Does your household pay a water bill directly to the Board of Water Supply?



Base=685

Satisfaction with the Board of Water Supply

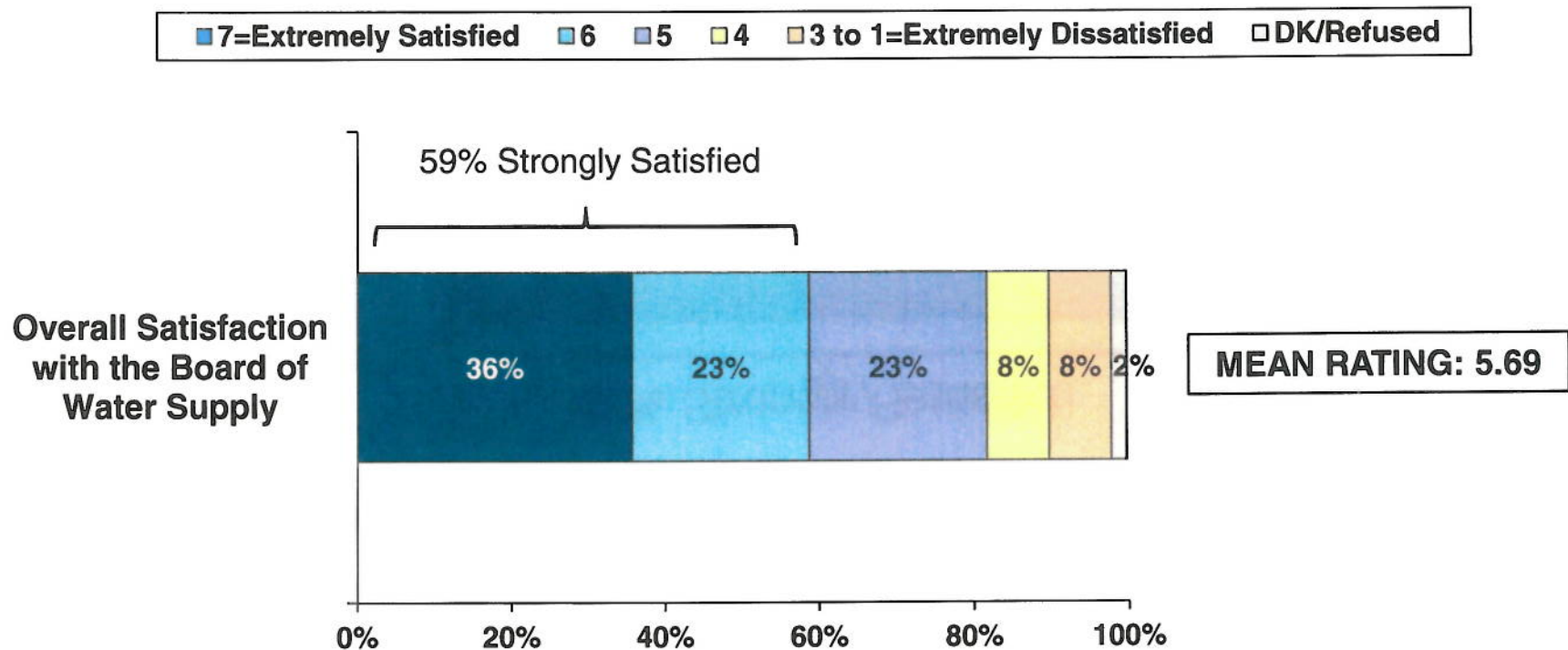
Rating Scale



Summary

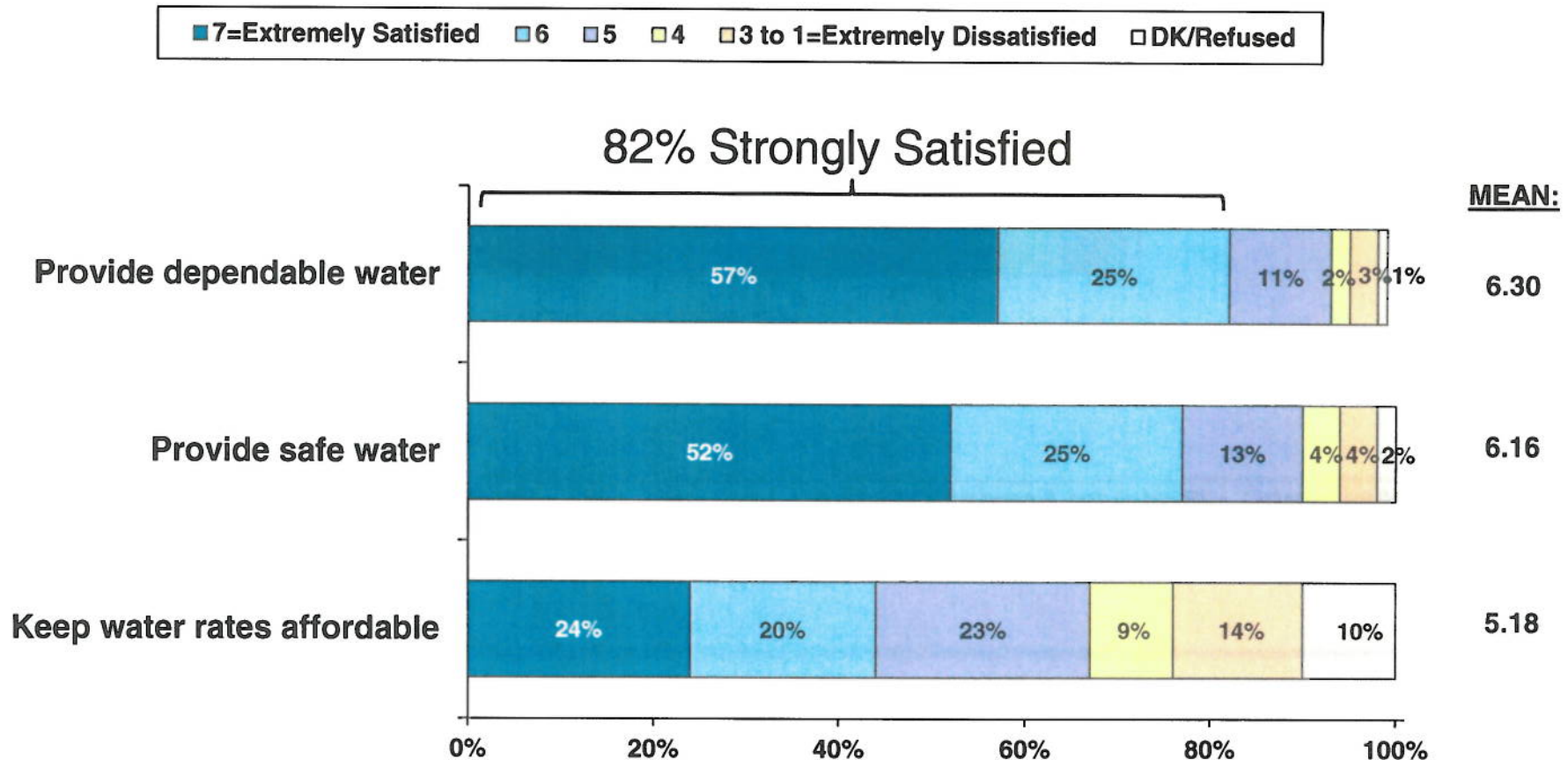
- Majority of residents strongly satisfied with Board of Water Supply overall
- Non-bill payers, renters, residents with lower household income more satisfied with Board of Water Supply than bill payers, homeowners, residents with higher household income
- Satisfaction highest for attributes relating to service, lowest for attributes relating to rates

Overall Satisfaction



Q1: Considering everything, and using a scale of 1 to 7, with 1 meaning "extremely dissatisfied" and 7 meaning "extremely satisfied," how would you rate your overall satisfaction with the Board of Water Supply? (n=685)

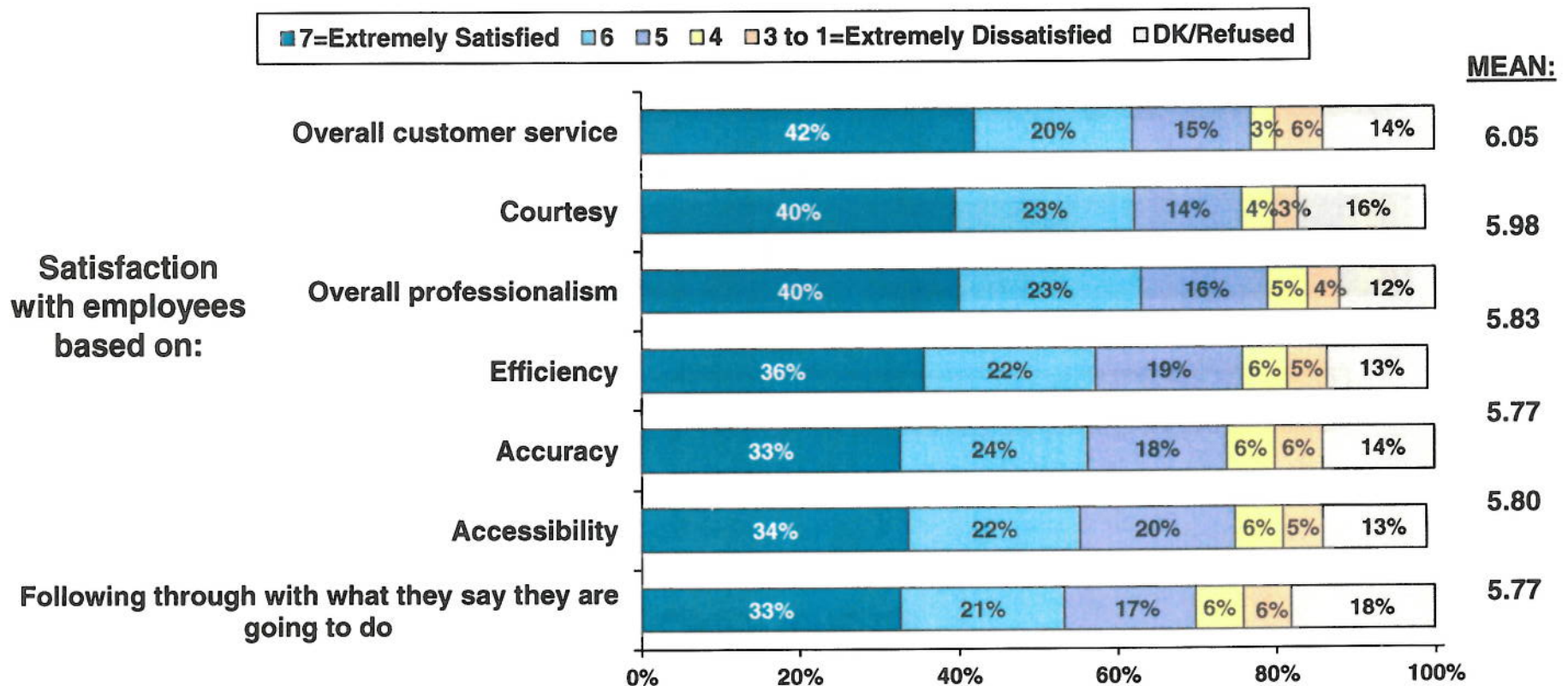
Satisfaction with Board of Water Supply's Ability to Fulfill its Mission "to provide safe, dependable, and affordable water now and into the future"



Q3: And, using a scale of 1 to 7, with 1 meaning "extremely dissatisfied" and 7 meaning "extremely satisfied," please tell me how satisfied you are with the Board of Water Supply's ability to:

(n=685)

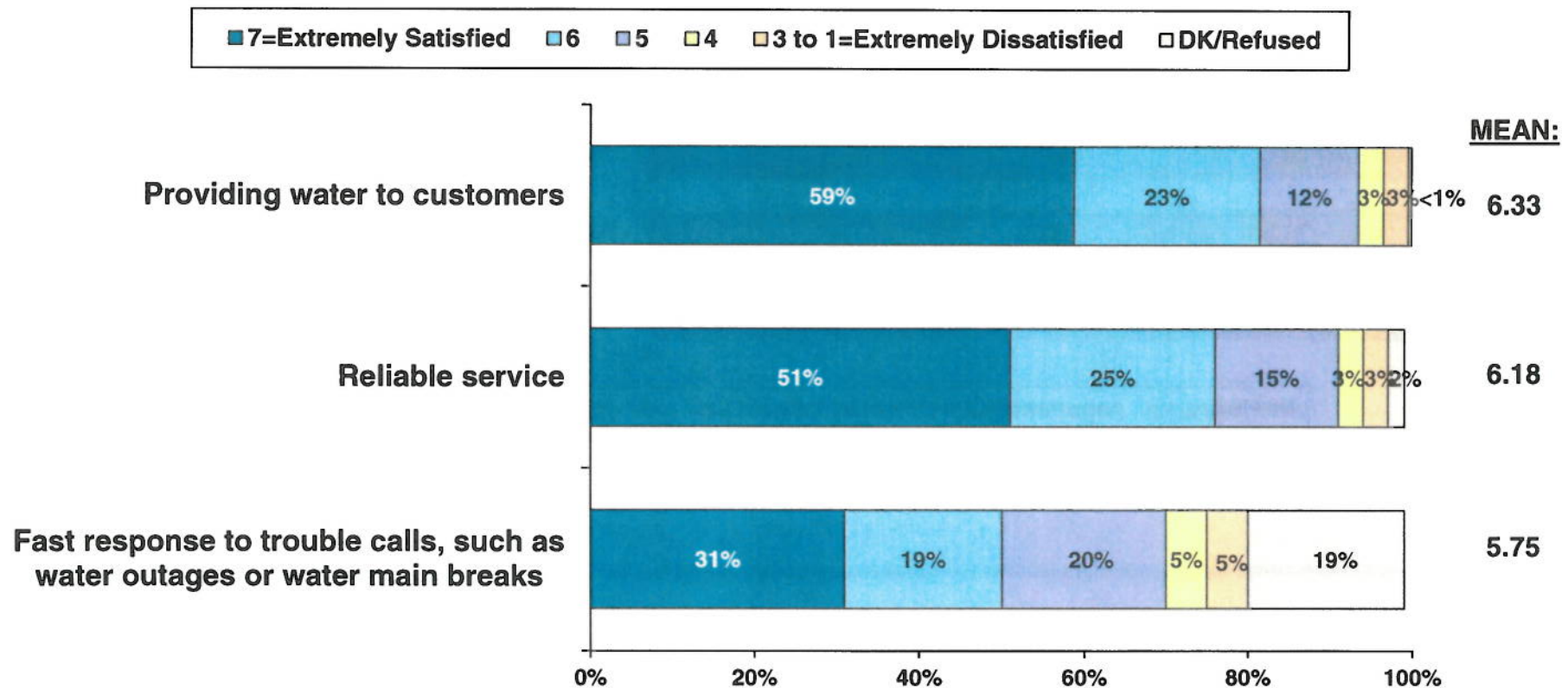
Satisfaction with Customer Service



Q2: Using a scale of 1 to 7, with 1 meaning "extremely dissatisfied" and 7 meaning "extremely satisfied," how would you rate your satisfaction with the Board of Water Supply in terms of: (n=685)

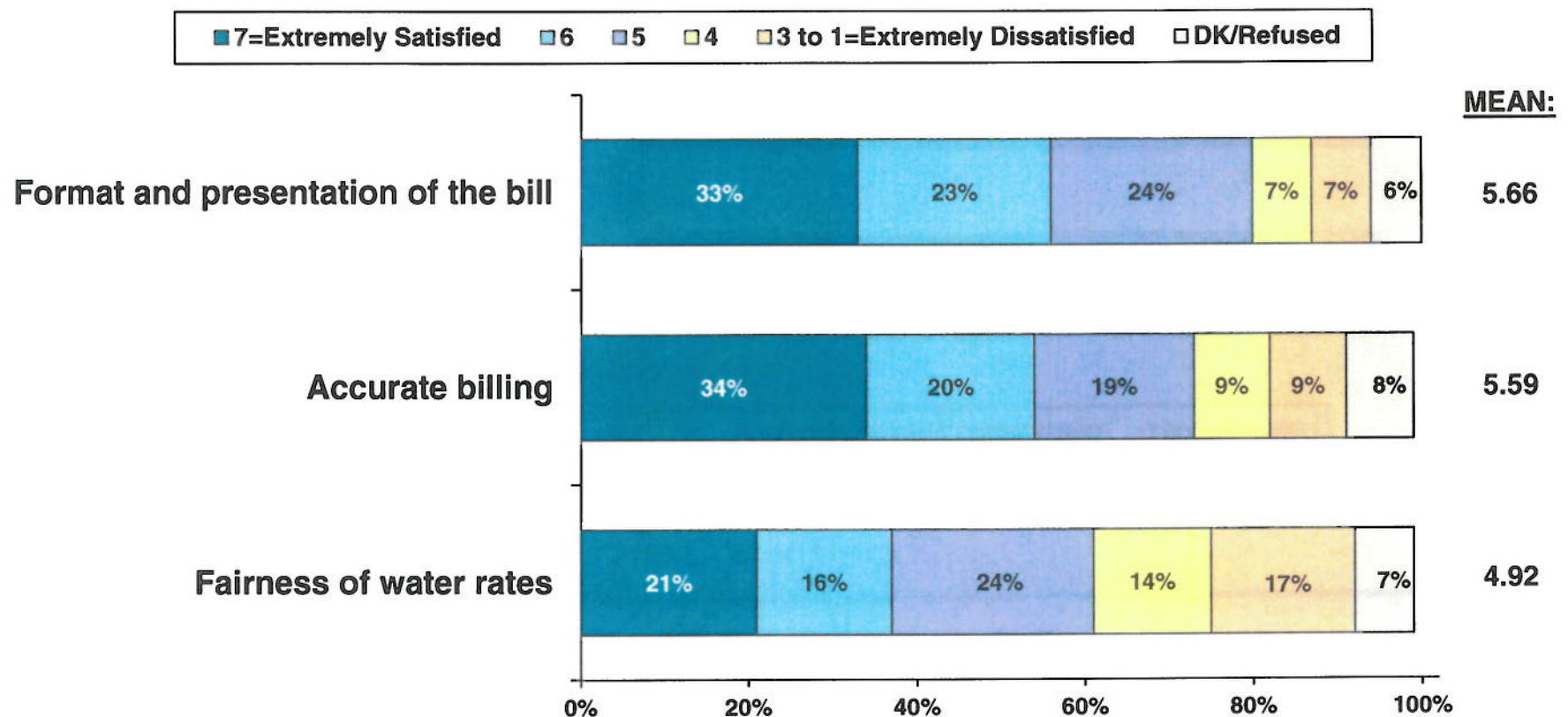
Q13: Based on your own experiences or anything you may have seen or heard, how satisfied are you with Board of Water Supply employees based on the following attributes: Use a scale of 1 to 7, where 1 means "extremely dissatisfied" and 7 means "extremely satisfied." (n=685)

Satisfaction with Water Delivery Service



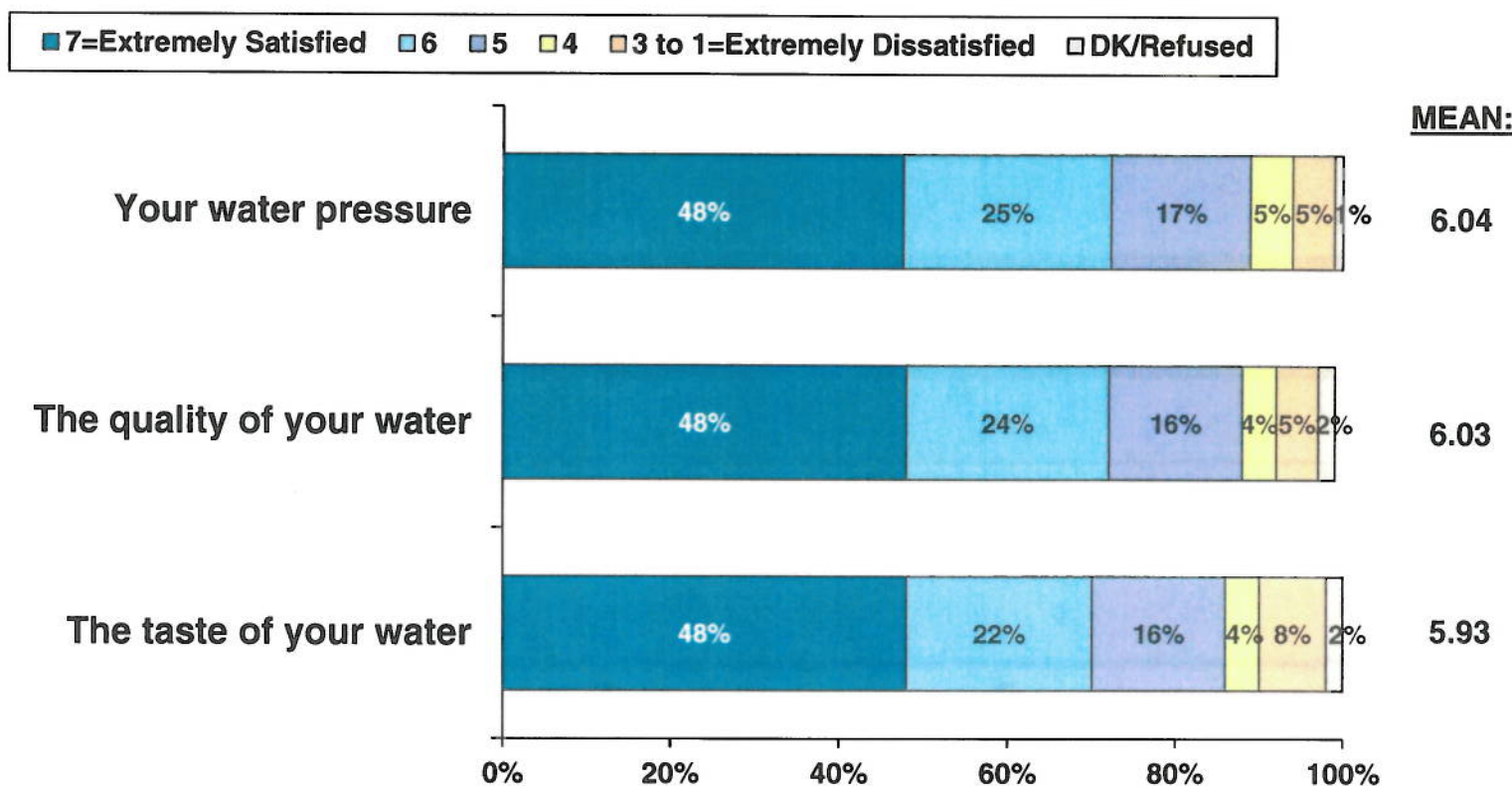
Q2: Using a scale of 1 to 7, with 1 meaning "extremely dissatisfied" and 7 meaning "extremely satisfied," how would you rate your satisfaction with the Board of Water Supply in terms of: (n=685)

Satisfaction with Rates and Billing: Bill Payers Only



Q2: Using a scale of 1 to 7, with 1 meaning "extremely dissatisfied" and 7 meaning "extremely satisfied," how would you rate your satisfaction with the Board of Water Supply in terms of:
 Q14: And now, some questions about your monthly bill from the Board of Water Supply. On a scale of 1 to 7, with 1 meaning "extremely dissatisfied" and 7 meaning "extremely satisfied," how satisfied are you with: (n=454)

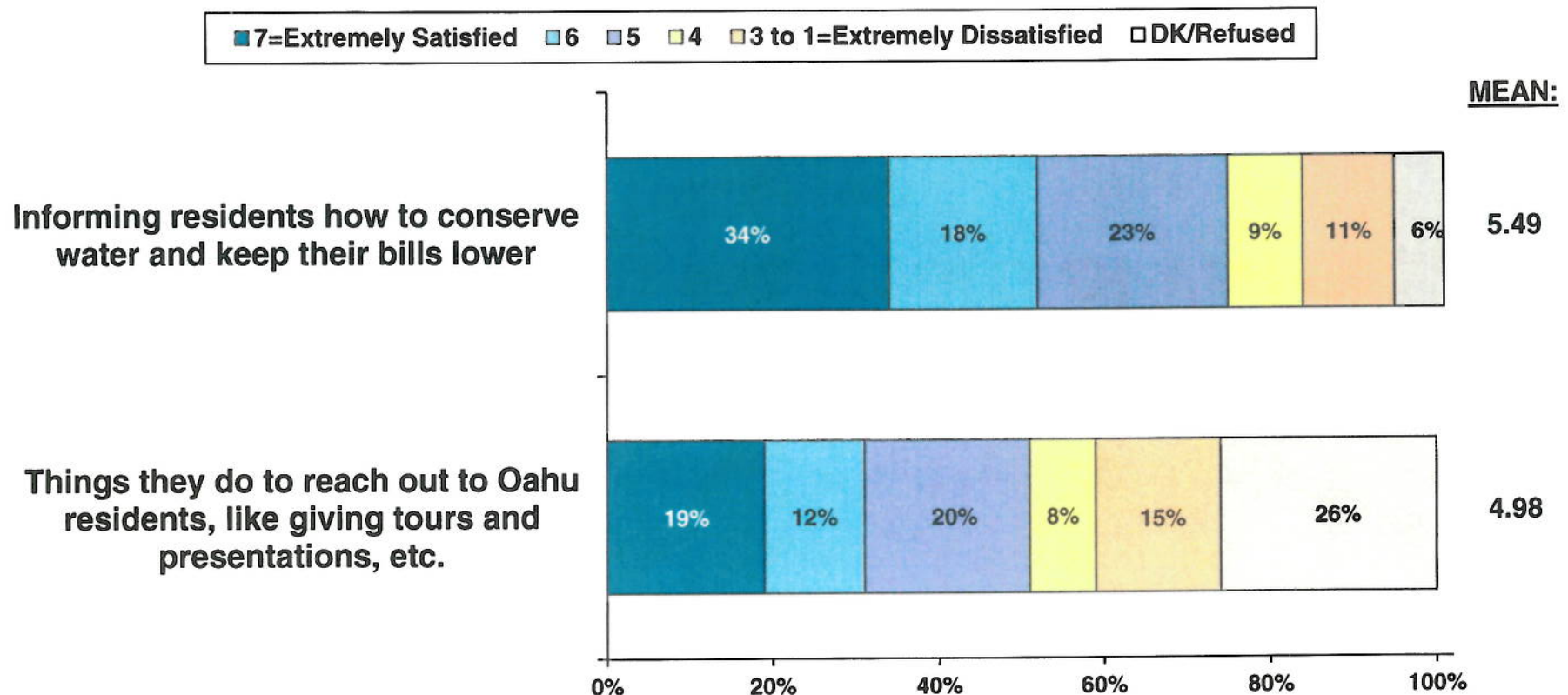
Satisfaction with Water Characteristics



Q18: And, on a scale of 1 to 7, with 1 meaning "extremely dissatisfied" and 7 meaning "extremely satisfied," how satisfied are you with:

(n=685)

Satisfaction with Board of Water Supply's Communications



Q2: Using a scale of 1 to 7, with 1 meaning "extremely dissatisfied" and 7 meaning "extremely satisfied," how would you rate your satisfaction with the Board of Water Supply in terms of: (n=685)

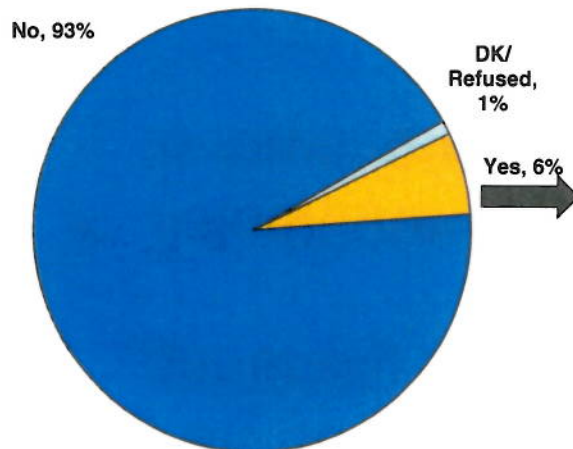
Contact with the Board of Water Supply

Summary

- Few contacted the Board of Water Supply; those who did generally satisfied with response
- Telephone response issues from a few years ago seem to have been forgotten

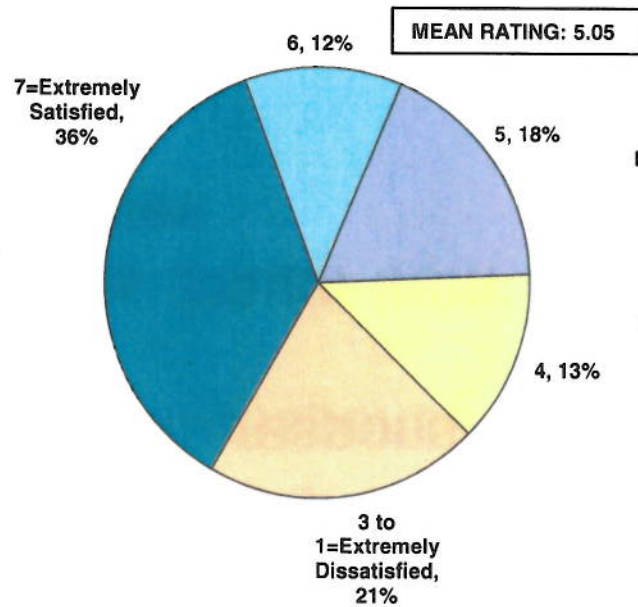
About a Bill

Contacted the Board of Water Supply ABOUT A BILL in the Past Six Months



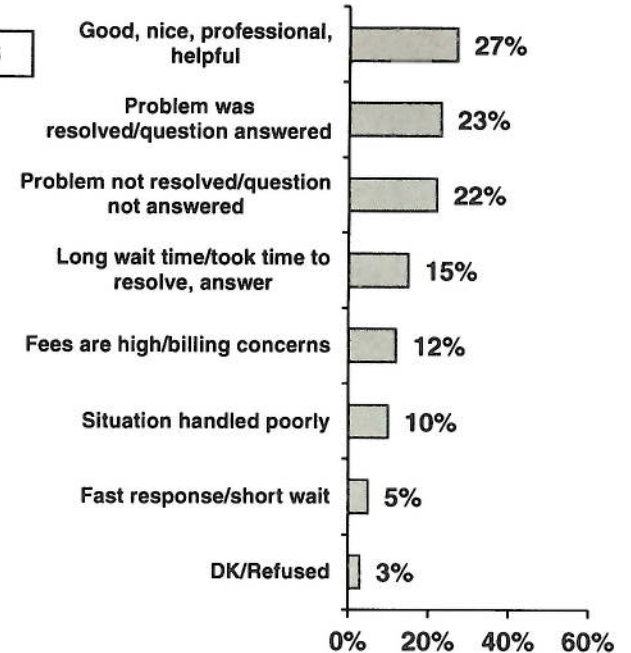
Q4: Did you contact the Board of Water Supply about a bill in the past six months? (n=685)

Satisfaction with How Communication was Handled



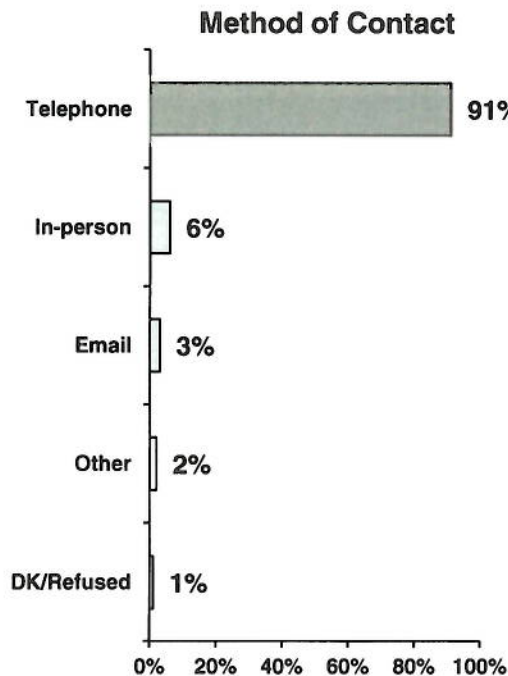
Q5: (IF YES in Q4) How satisfied were you with how the communication was handled? (n=43)

Reason for Satisfaction Rating

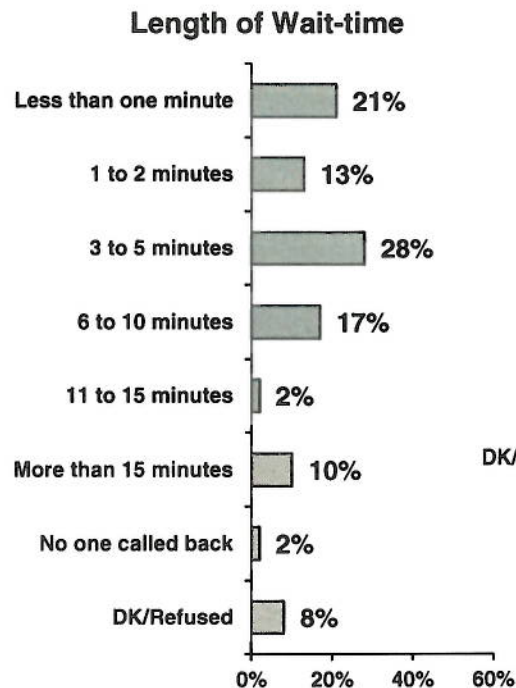


Q6: Why do you say that? (n=43)

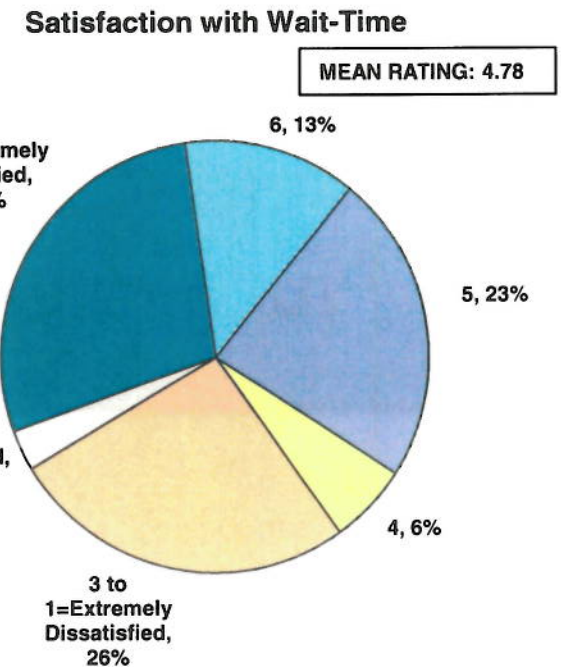
Telephone Contact



Q10: (IF YES in Q4 or Q7) You said that you contacted the Board of Water Supply about a bill or for some other reason in the past six months. Was the contact via telephone, email, or some other method? (n=81)



Q11: (IF TELEPHONE IN Q10) Thinking about the telephone contact, how long did it take before you were able to talk to someone? (n=74)



Q12: How satisfied were you with that wait time? (n=74)

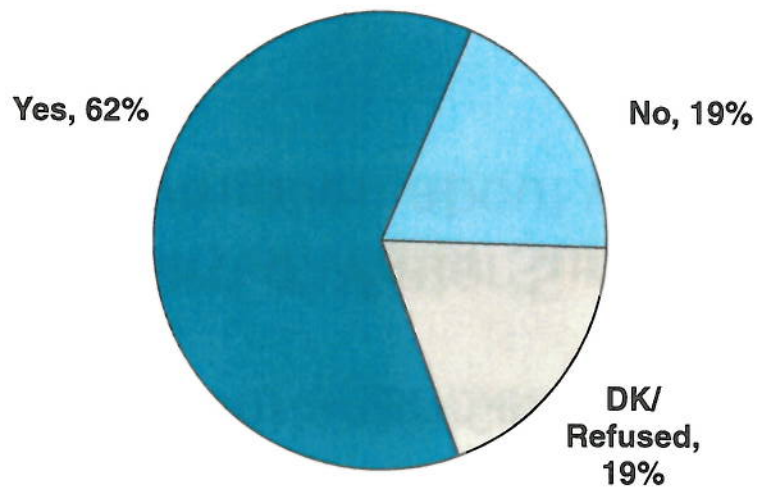
Awareness of Billing, Communications, and Trust in the Board of Water Supply

Summary

- Lack of awareness that water and sewer charges set by different agencies
- Board of Water Supply is second-most trusted to provide information about water issues in Hawaii (after scientists)

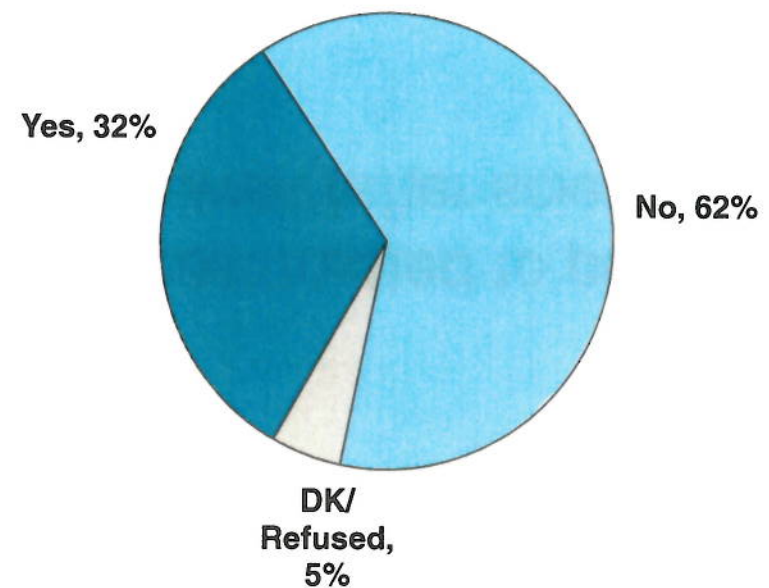
Awareness of Billing

Is your water bill combined with a sewer bill?



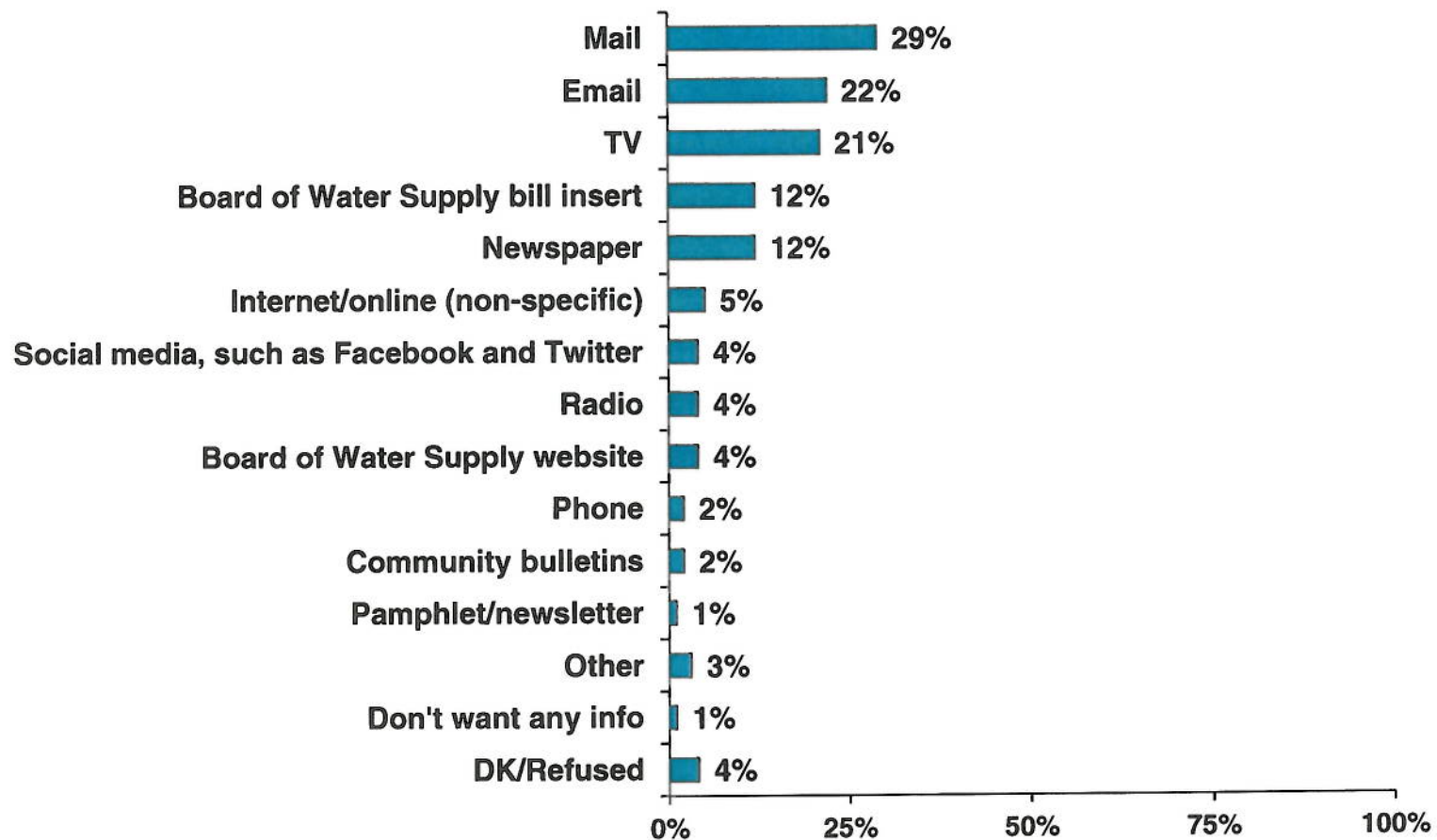
Q15: Is your water bill combined with a sewer bill? (n=685)

And did you know that these charges are from two different agencies?



Q16: And did you know that these charges are from two different agencies? (n=685)

Preferred Method of Communications from the Board of Water Supply

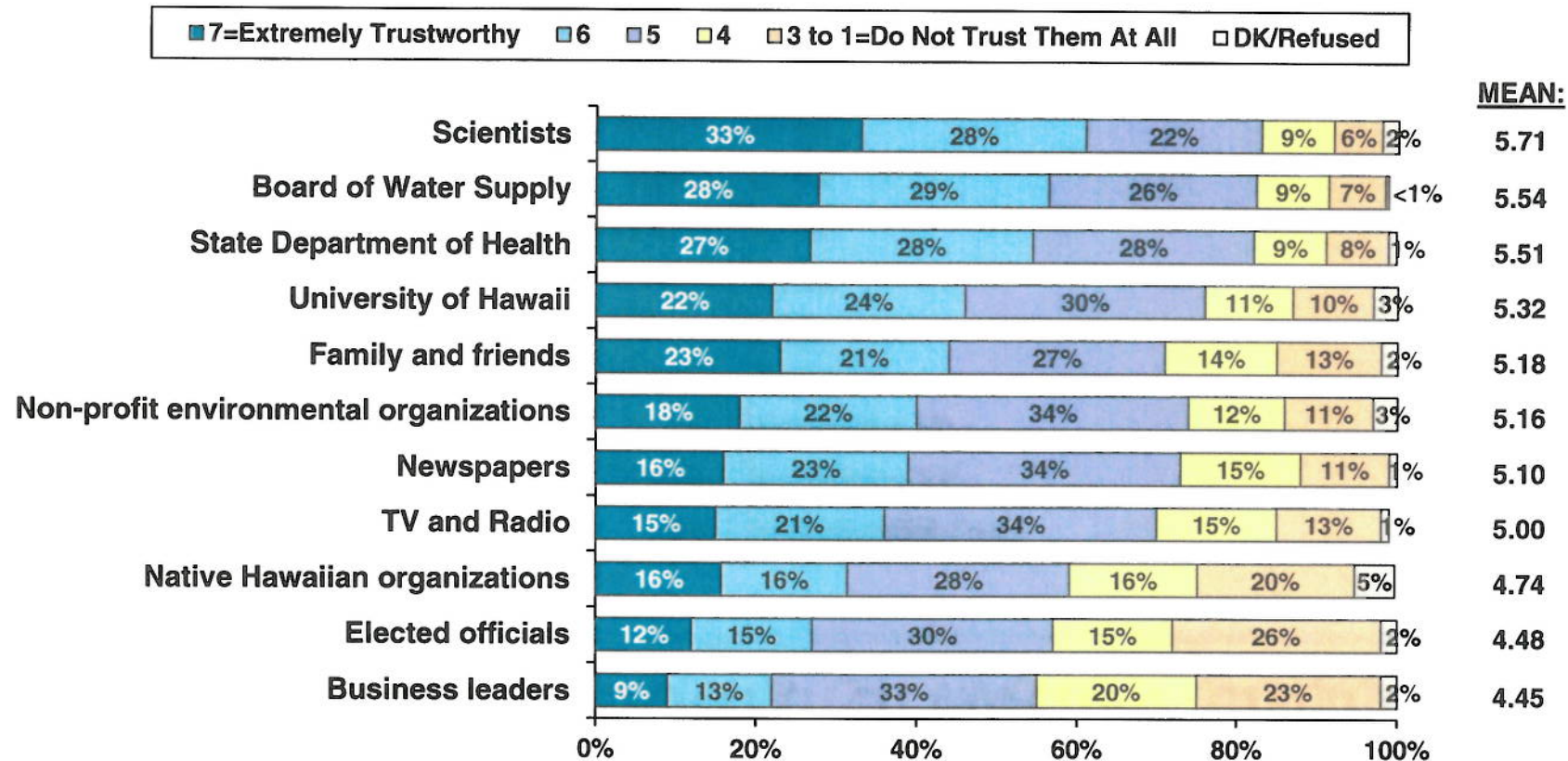


Q26: How do you prefer to get information about Board of Water Supply programs and services??

(n=685)

Most Trusted Sources of Information about Fresh Water Issues in Hawaii

How much do you trust:



Q27: Finally, which sources do you trust to provide honest, accurate information about fresh water issues in Hawaii? Using a scale where 1 means you "do not trust them at all" and 7 means you find them to be "extremely trustworthy", how much do you trust: (n=685)

Part II: Focus Groups among Oahu Residents

Objective

To assist the Board of Water Supply in understanding customer satisfaction, with an eye toward developing plans for addressing any areas of needed improvement.

Methodology

- 4 focus groups among n=32 Oahu residents

Description	Total Number of Groups Conducted	Total Number of Participants
Bill Payers (pay a bill directly to Board of Water Supply)	2	16
Non-Bill Payers (pay a water bill as part of rent or maintenance)	2	16

- Conducted March 17 to March 18, 2015; 90 minutes each
- Discussion outline created by Ward Research and submitted to Board of Water Supply for review and input

Summary

- Perceptions of the Board of Water Supply very positive --- “quietly” doing their job every day to provide safe, “good tasting” water reliably flowing to homes
- Sewer charges (negatively) influence satisfaction with Board of Water Supply
- Residents generally do not think about the Board of Water Supply unless there is a water main break
- There is an opportunity to talk more with residents about the Board of Water Supply’s plans to replace aging infrastructure and provide for future demand

Perceptions and Awareness of the Board of Water Supply

- **“A quiet utility”**

“It is a pretty quiet utility. I think it’s a good thing. It means they’re providing the service.”

“I think it’s good that you don’t hear much about them. They are kind of just there, providing water.”

“I really only hear about them when a pipe breaks down and they have to close the road. Traffic gets backed up.”

- **Low awareness of Board of Water Supply’s programs and activities, especially among non-bill payers**

“I honestly don’t know what else they do. I know that they have their Christmas lights at Christmas but that’s basically it.”

“I don’t pay water. It’s included in my rent, so as long as my water is working, I don’t really pay attention. I can’t really tell you anything else about what they do.”

- **News about water main breaks/repairs recalled most often**

“I really only hear about them when a pipe breaks down and they have to close the road. Traffic gets backed up.”

“It’s water cooler conversation when there are water main breaks or when it’s on the news or when it comes up randomly from neighbors.”

Sources of Satisfaction with the Board of Water Supply

- **Reliability of water service**

“When I turn on the faucet, water comes out. That’s basically the only thing I considered for my satisfaction rating.”

“As long as I can take a shower and wash dishes, I’m good. There’s never been a time when I didn’t have water, not even if there is a big storm.”

- **Quality of water (taste, cleanliness; unaided mentions of Water Quality Report)**

“Compared to a lot of other states where there are droughts, like California, we have an abundance of water and the water tastes a lot better here than other places.”

“Our water is very good. I don’t know why people even buy bottled water. I am comfortable drinking tap water.”

- **Customer service**

“Whenever there is a water main break, they’re out there right away. They stay there until it’s fixed. They also bring out their water wagons, so people can get their water. They have a pretty darn impressive response.”

“They get there right away and you can see them actually working instead of just standing around. It seems like they do the best they can to limit the inconvenience.”

Sources of Dissatisfaction with the Board of Water Supply

- **Rising cost of water bill → includes cost of sewer, but still “water bill”**

“It’s gotten expensive. It wasn’t that expensive before. I remember having to pay only every other month and then they changed it to every month and it’s higher than what I used to pay because of the sewer.”

“They raised our user fees so much. We used to get statements every two months. Now we’re getting them every month and it’s more than what we used to pay because of the increase in sewer fees, I believe.”

- **Aging infrastructure**

“They keep talking about doing something about the pipe systems and fixing it, and they’ve been talking about it since I moved here in 2000, but I haven’t seen anything done. You just keep hearing about the pipes breaking. It’s patchwork.”

“There’s a lot of aging pipes, that’s for sure. I think they’re behind in replacing the aging pipes, but maybe they can’t afford to change it at all. I’m hoping they’re getting enough funds to keep up with it.”

Testing Messages

- ***The Board of Water Supply is a steward of this precious resource → most preferred***

"I think putting 'precious' in there is a really good idea, because water is not just another resource. It really is a precious resource. We need it."

"I think 'steward' is an important word. It's pretty much the soul of the sentence, if you will. And it's obvious for the Board of Water Supply because they are the stewards of the resource."

- ***Water for Life/Ka Wai Ola***

"I like it. You need water to live and it says right there, 'Water for Life.' And it looks like something we already see on the back one of their trucks."

- ***Safe, Dependable, Affordable***

"I like the words, but it sounds like you're buying a car. It doesn't sound like words I would use for water. I don't have a connection with those words for water."

- ***Sustain, Capture, Treat, Move, Store, Deliver → least preferred***

"It makes me tired. It sounds like a job description. It makes me think, 'My gosh, that sounds like a lot of work'."

Questions

ITEM FOR INFORMATION NO. 3

"May 26, 2015

UPDATE ON
DEVELOPMENT
OF BERETANIA
PROPERTY

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

Chair and Members:

Subject: Update on Request for Proposals for the Development
of the Development of the Beretania Property

Ellen Kitamura, Deputy Manager, will present the update of the Beretania Property Development Project.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION

Board Member Hulihee disclosed that he is on the Board of Trustees for Queen's Hospital.

Deputy Manager Kitamura gave the presentation. She showed a picture of the six-acre Beretania property, described the purpose of the development project, and explained how they utilized a Request for Proposals (RFP) process to select a qualified developer. The RFP was done in two parts. Part I consisted of a Qualifications phase in which the top three offerors were selected based on the capabilities and experience of the offerors. Part II required Technical and Price proposals from the three offerors. Ms. Kitamura announced that they would be cancelling the solicitation because all three offerors withdrew from consideration before the award of the development contract.

BWS sent letters to the three offerors informing them of the Department's interest in their technical and price proposals. There was a question and answer (Q&A) period after the letters were sent to the three offerors. The Molasky Group and The Hunt Development Group withdrew before submitting a development proposal. There was another Q&A period with the remaining offeror, Queen's Medical Center (QMC).

QMC submitted a preliminary technical and price proposal. Ms. Kitamura explained that after the formal written Q&A period with QMC, BWS requested a meeting with them to discuss their proposal; however QMC

withdrew before formally meeting with BWS. BWS will be going out with another solicitation; therefore QMC's proposal will not be released to the public since it could possibly give an unfair competitive advantage to future developers and negatively impact the new solicitation.

Ms. McMurdo inquired if QMC consisted of a group. Ms. Kitamura replied that it wasn't a joint venture. QMC hired consultants, architects, etc., to develop their technical and price proposal. Ms. McMurdo asked if Board Member Wong helped with the Q&A and addendum process, and if BWS hired a real estate person to help in the process. Ms. Kitamura replied that Mr. Wong and a prior Board Member, Kaulana Park, helped only with the development of the RFP. BWS had an evaluation committee and technical and legal consultants helping with the Q&A and addendum periods. Mr. Lau added that this was a 103D process so it would be inappropriate for Board Members or himself to be directly involved in the evaluation process.

Ms. Kitamura concluded the presentation by informing the Board of the next steps of the project. There were no other comments or discussion.



Board of Water Supply City and County of Honolulu



***BERETANIA PROPERTY DEVELOPMENT PROJECT
Board Meeting – May 26, 2015***



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Board of Water Supply
City and County of Honolulu



Courtesy: Google Maps



Beretania Property Development Project

- 💧 Project Purpose: To pursue alternative revenue sources, **such as the lease and development of its Beretania property**, to fund operational needs and capital system improvements.
- 💧 Develop the 6-acre Beretania property for the benefit of our customers and BWS.
- 💧 Utilized Request For Proposals (RFP) process to select a qualified developer to ensure BWS realizes the most appropriate use of the Beretania property
 - 💧 Part I – Qualification & Shortlist to Top 3 Offerors
 - 💧 Part II – Technical and Price Proposals from Top 3 Offerors



Project Status

Solicitation will be cancelled

All potential Offerors withdrew before award

💧 Part I – Qualifications Proposals

- 💧 The Molasky Group
- 💧 The Hunt Development Group
- 💧 Queens Medical Center
- 💧 Oliver MacMillian

💧 Part II – Technical and Price

- 💧 The Molasky Group
- 💧 The Hunt Development Group
- 💧 Queens Medical Center

💧 Molasky and Hunt withdrew before submitting proposals



Project Status

- 💧 QMC submitted a proposal
 - 💧 Withdrew before formal meeting with BWS
 - 💧 Requested that proposal not be released to public
 - 💧 Reason for withdrawal was not disclosed.
- 💧 State Procurement Law
 - 💧 Cancellation of solicitation requires reason for cancellation, but does not require disclosure of proposal. (HAR 3-122-96)
 - 💧 Key consideration: Public disclosure of proposals is not recommended if disclosure could negatively impact a new solicitation. (Kaapu. 74 Haw. At 389, 846 P.2d at 892)



Project Timeline

- 💧 March 2013: RFP posted
- 💧 March – August 2013: Part I: Q&A Period, Addenda 1 – 2 Issued
- 💧 August 2013: Part II: BWS short-lists the Top Three Offerors
- 💧 August – October 2013: Q&A Period, Addendum 3 Issued
- 💧 November 2013: Molasky Group & Hunt Development Group withdraws
- 💧 November 2013 – June 2014: Q&A Period w/QMC, Addenda 4 -7 Issued
- 💧 June 2014: QMC submits initial Development Proposal
- 💧 August 2014: BWS submits written questions to QMC
- 💧 September 2014: QMC submits written responses to BWS
- 💧 November 2014: BWS requests meeting with QMC
- 💧 Late November 2014: QMC decides not to pursue the development before meeting with BWS

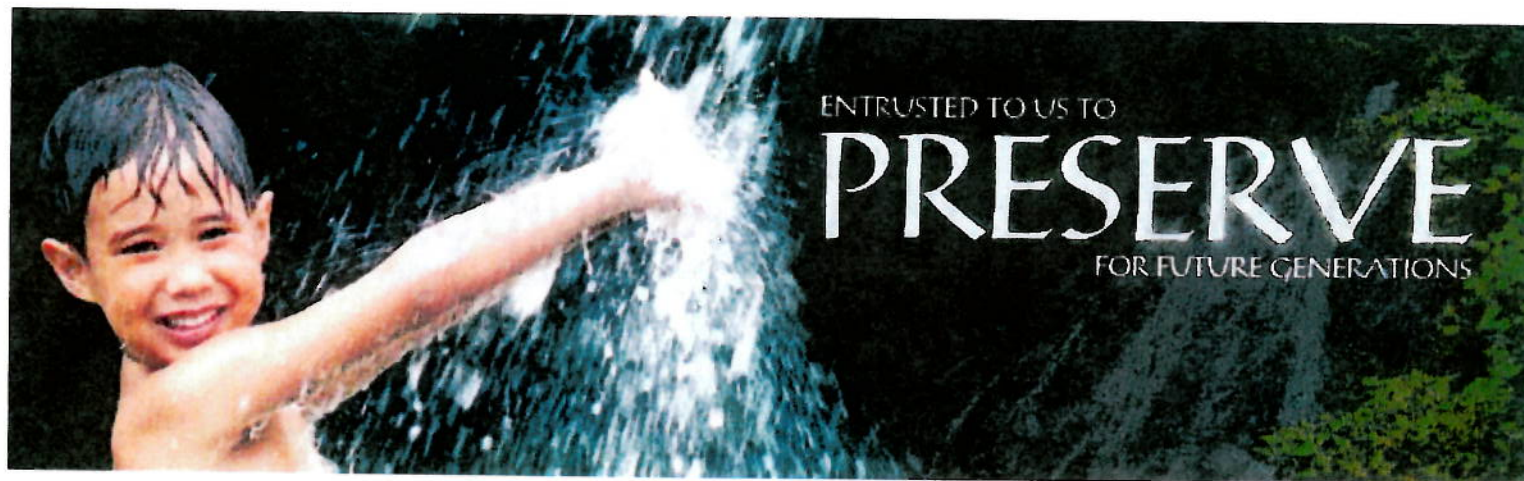


Next Steps

- 💧 Currently funding study to identify and evaluate feasible alternatives for modernizing the existing buildings at Beretania
- 💧 Proposed funding in FY 2015-2016 for a Beretania Facility Master Plan to determine potential use of the property.



Questions?



ITEM FOR INFORMATION NO. 4

QUARTERLY CAPITAL IMPROVEMENT PROGRAM STATUS REPORT
ALL DIVISIONS

Quarter Awarded	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Awarded to Date	Total Budgeted
Design Contracts Awarded (#/\$)	1	\$1,350,000.00	0	\$0.00	13	\$2,970,287.97		\$0.00	\$4,320,300.97	\$19,904,857.00
Construction Contracts Awarded (#/\$)	3	\$174,286.35	3	\$534,508.00	10	\$5,858,333.25		\$0.00	\$6,567,140.60	\$43,343,000.00
Project Totals	4	\$1,524,286.35	3	\$534,508.00	23	\$8,828,621.22	0	\$0.00	\$10,887,441.57	\$63,247,857.00

Quarter Completed	JUL - SEP		OCT - DEC		JAN - MAR		APR - JUN		Totals	
Design Contracts Completed (#/\$)	3	\$357,005.20	4	\$774,478.00	2	\$226,327.00		\$0.00	\$1,357,816.20	
Construction Contracts Completed (#/\$)	2	\$2,106,110.00	0	\$0.00	0	\$0.00		\$0.00	\$2,106,110.00	
Totals	5	\$2,463,115.20	4	\$774,478.00	2	\$226,327.00	0	\$0.00	\$3,463,926.20	

Ongoing Projects	
Ongoing Design Projects (#)	157
Ongoing Design Projects (\$)	\$64,722,708.72
Ongoing Construction Projects (#)	86
Ongoing Construction Projects (\$)	\$185,293,472.65

CAPITAL IMPROVEMENT PROGRAM QUARTERLY UPDATE
ALL DIVISIONS

DESIGN AND CONSTRUCTION PROJECTS AWARDED - THIRD QUARTER FY 2015

Item #	Project Title	Expend Type	Budget Amount	Awarded
071	Project Management Information System	CONST	\$500,000.00	\$559,674.00
070	Security Camera Systems	CONST	\$403,000.00	\$299,000.00
019	Pearl City Wells II Isolation Valves	P&E	\$150,000.00	\$183,517.00
009	Aina Koa Booster I: Replace Pump No. 2	CONST	\$310,000.00	\$330,000.00
024	Kulaaupuni and Alta Street Water System Improvements	CONST	\$1,150,000.00	\$1,534,395.00
016	Waialae Iki Well Renovation	P&E	\$150,000.00	\$150,405.06
021a	Moanalua Wells: Replacement of Pump #1	P&E	\$110,387.00	\$110,387.00
056	Customer Information System	P&E	\$262,857.00	\$262,857.00
011	Maunawili Booster: Replace Pumping Units	CONST	\$100,000.00	\$140,000.00
014	Pacific Heights Booster Renovation	CONST	\$1,500,000.00	\$1,636,000.00
061	Kronos Upgrade	P&E	\$857,000.00	\$32,481.65
006D	Waipio Heights Wells II: Replacement of Pump No. 1	CONST	\$368,632.00	\$368,632.00
004	Energy Savings Performance Contracting (ESPC) - BWS FACILITIES	P&E	\$500,000.00	\$257,000.00
057	Computerized Maintenance Management System	P&E	\$2,375,000.00	\$62,654.43
006E	Kaamilo Wells: Replacement of Pump No. 1	CONST	\$275,000.00	\$275,000.00
045	Microbiological Laboratory Air Conditioning Upgrade	CONST	\$740,000.00	\$704,000.00
050	Renovate/Replace Reservoir Altitude Valve Assemblies - Makiki & Waialae Iki 180 Reservoir	P&E	\$100,000.00	\$329,931.49

021b	Halawa Wells and Booster No. 2: Replacement of Pumping Units	P&E	\$389,613.00	\$294,990.34
020	Pearl City Wells I Renovation	P&E	\$150,000.00	\$237,948.00
036	Moilili Water System Improvements, Part IV	P&E	\$450,000.00	\$329,858.00
037	Kamehameha Heights Water System Improvements, Part III	P&E	\$750,000.00	\$666,723.00
043M	Emergency Asbestos Removal - PSB 3rd Floor Women's Restroom	CONST	\$10,000.00	\$10,000.00
055G	Kalihi Corporation Yard Lighting Improvements	P&E	\$51,535.00	\$51,535.00
043N	Emergency Repairs to the PSB Third Floor Women's Restroom	CONST	\$1,632.25	\$1,632.25
3rd Quarter totals			\$11,654,656.25	\$8,828,621.22

DESIGN AND CONSTRUCTION PROJECTS COMPLETED - THIRD QUARTER FY 2015

Job #	Project Title	Completion Date	Contract Amount
2008-023A	Repair of Barbers Point 215 Reservoirs No. 1, 2 & 3	1/8/2015	\$121,962.00
	Mailili Road - Emergency Repairs of Drainage Culverts, Bridge, and Road Design	3/10/2015	\$104,365.00
3rd Quarter totals			\$226,327.00

DISCUSSION

Capital Projects Program Administrator Jason Takaki gave the report. Mr. Wong inquired how they would be able to expend \$53 million on both design and construction projects in the last quarter. Mr. Takaki replied that he can only speak for the portion of the CIP administered by Capital Projects. As far as the Capital Projects Division is concerned, they are looking to expend everything. Mr. Wong asked why it's back loaded all the way to the last quarter. Mr. Takaki explained that it is partially a timing issue since a lot of contracts were awarded in April, but it has always been a struggle to execute projects early in the fiscal year. There has been progress made, but not enough to move it a quarter. Mr. Takaki stated that at least this year, he will not be waiting until the last week in June to open bids. It's a slow progress but it is moving.

Mr. Wong asked if the ideal scenario would be to equally spread out the execution of projects through the four quarters. Mr. Takaki replied that the ideal would be to expend everything in the first quarter, but from a workload standpoint for the Capital Projects Division and other impacted divisions like the Procurement Office, it would be better if it were spaced out throughout the year. It would be best if most of the budget was expended by the third quarter so there would be a better idea of how funds could be moved around; if there were overages in projects or if a budget amendment would be required to make money available. Ms. McMurdo commented that she sees progress and an improvement.

ITEM FOR INFORMATION NO. 5

"May 26, 2015

CAPITAL
PROJECTS
PROGRAM AND
CONSTRUCTION
MANAGEMENT
UPDATE

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

Chair and Members:

Subject: Capital Projects Program and Construction Management
Quarterly Update

Jason Takaki, Program Administrator of our Capital Projects Division, will provide an update on Program Management projects in the Capital Projects Division.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION

Mr. Takaki gave the presentation. Following the presentation, Mr. Wong asked how many in-house engineers are doing plans review. Mr. Takaki replied that they have three engineers and one engineering support technician. Mr. Wong asked how many in-house engineers are working on projects. Mr. Takaki replied that there are about 20 in-house engineers. Mr. Wong questioned what the optimal level would be. Mr. Takaki responded that that is still to be determined. He stated that improvements in processes, the implementation of the project management information system, and filling staff support positions will impact the numbers. Also, they need to fuel their training program because they will be hiring at entry level.

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Board of Water Supply
City and County of Honolulu

Capital Projects Program and Construction Management



Board of Water Supply

May 26, 2015



Program Targets

- Our Work



- Streamline project execution
- Align business processes to best support the increased number and scale of projects
- Improve quality control/quality assurance
- Support the implementation of the Water Master Plan

- Our Organization



- Standardize operating procedures & training
- Optimize organization and craft staff succession plans for organizational sustainability

- Our Customers

- Capitalize on organizational relationships
- Improve communications



Progress to date



- Core teams continue to develop collaborative solutions to improve operations and crafting action plans for implementation



- Beta testing of Project Management Information System (MANAO)
- Continue progress on sample projects to test and enhance workflows improvements
- Ongoing Construction staff training program



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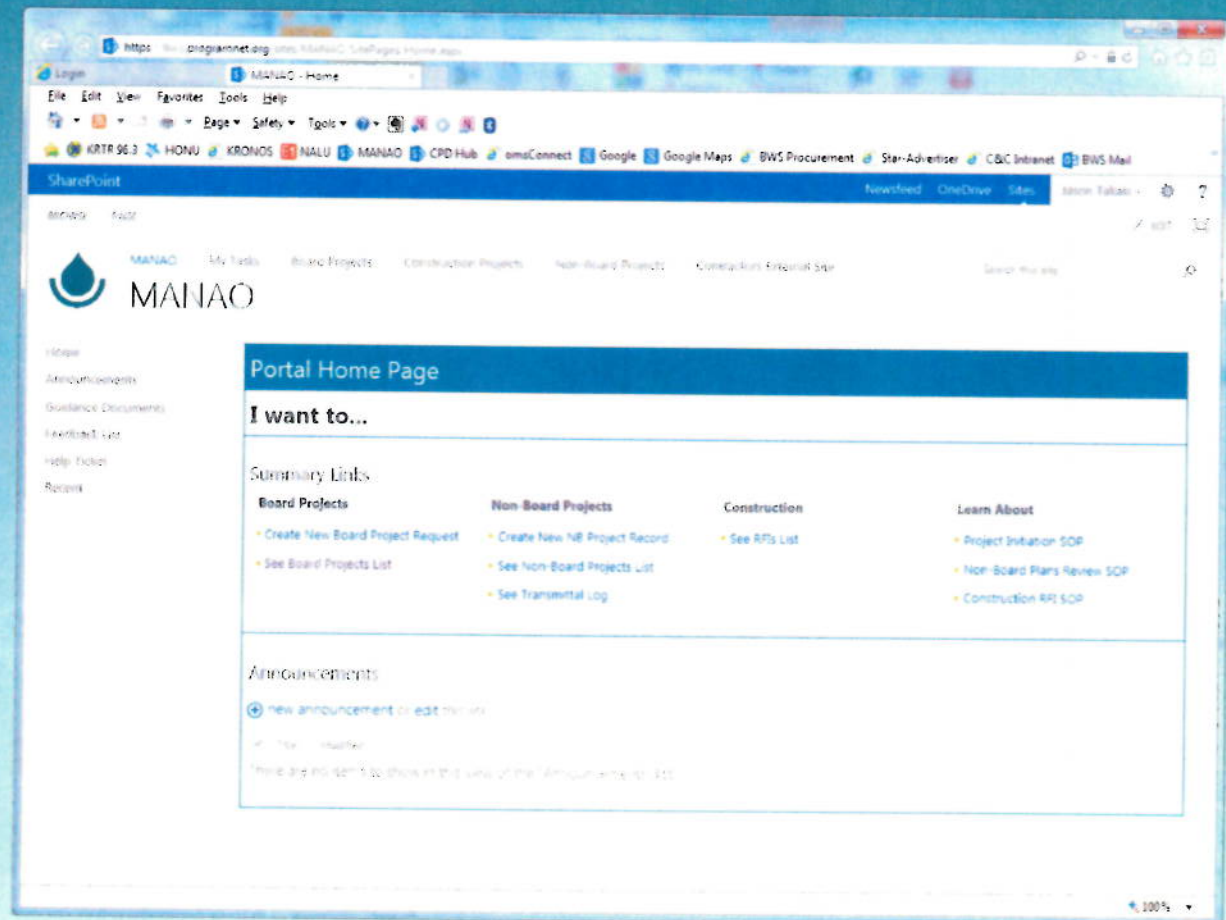
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MANAO Project Management Information System

- **M**anagement
- **A**dministration
- **N**otification
- **A**ccountability
- **O**rganization



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Electronic Project Requests

New Project Request

Select type of Project Request you need:

Facility Project

Pipeline Project

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Project Request

* Fields with asterisk or yellow are required. Fill in all the required and other fields needed before clicking Save (which will start the Request Workflow).

Project Record Header

Project Record ID	Request Date 5/7/2015	Project Phase* New Request	Record Status Unsaved New Record
Project Name*			
Requesting Division*			
Asset Type*	Project Type*		
Requesting Division Contact*	Primary Email	Primary Phone	
Alternate Contact	Alternate Contact Email	Alt Phone	

Proposed Project Description*

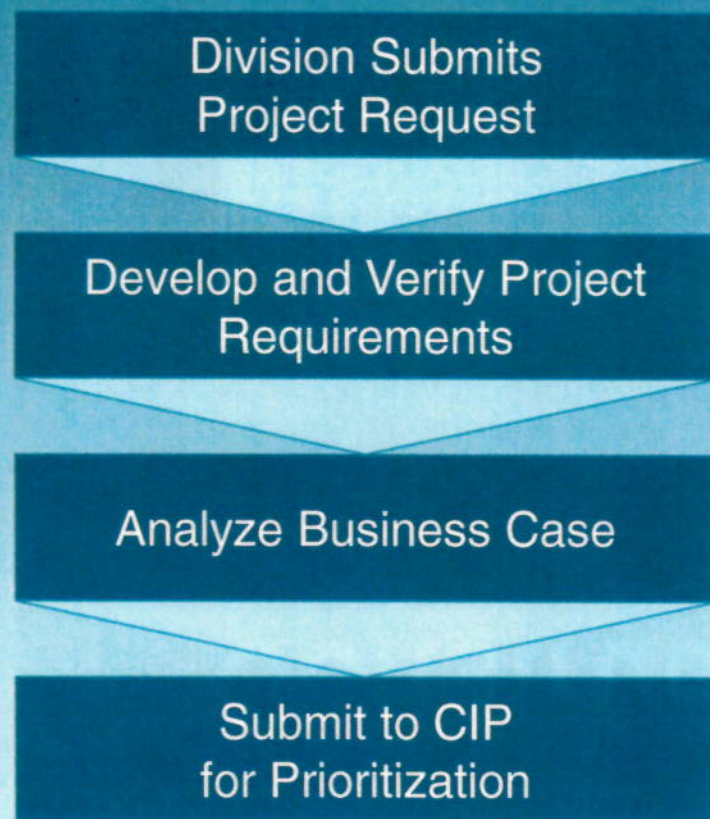
Justification	Justification Description

Please provide detailed limits and pipe size of the proposed project:

Existing Conditions	Existing Conditions Description



Project Identification and Scoping



Identify



Collaborate



Analyze



Build



Construction RFI module

- Request for Information - Form supports workflow
- Link supporting documents to a specific RFI record on each project

The screenshot displays the Construction RFI module interface. On the left, a vertical sidebar lists roles: General Contractor, CPO Construction Branch, CPO Project Engineer, and Design Consultant. The main area is divided into two sections: a workflow diagram and a form.

Workflow Diagram:

```

graph TD
    Start([Submit RFI]) --> Review[Review and review RFI]
    Review --> Complete{Can CPO Answer/Complete RFI?}
    Complete -- No --> Forward[Forward RFI to CPO Engineer for review and response]
    Complete -- Yes --> Review
    Forward --> Review
    Review --> Done([Review RFI])
    
```

Request for Information Form:

RFI Number: [Field] **Project #:** [Field] **RFI Date:** [Field]

Title: [Field] **RFI Status:** [Dropdown: New]

Priority: [Field]

Spec Section: [Field] **Drawing Sheet Number:** [Field]

Proposed Solution: [Field]

Time Impact? [Field] **Time Impact Desc.:** [Field]

Cost Impact? [Field] **Cost Impact Desc.:** [Field]

Submitter Name: [Field] **Submitter Company:** [Field] **Submitter Phone:** [Field]

Submitter Email: [Field] **Requested Due Date:** [Field]

Send To Email: [Field] **Ready to Send?** [Field]

Reviewer Response Form:

Reviewer: [Field] **Response Date:** [Field]

Reviewer Email: [Field]

Reviewer Response: [Field]

Send To Email: [Field] **Reviewer Status:** [Field]

Submit [Button]

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Board of Water Supply
City and County of Honolulu

Plans Review project tracking

Project-specific
Transmittal
Log

Transmittal
Form

Non-Board Projects Documents Transmittals

Transmittal Log for this Project

Non-Board Transmittal Log

+ Add New Transmittal Double click row to display details

Selected Filter: Default Quick Search: All Fields

Transmittal ID	Title	Transmitted To	Transmitted From	Due Date	Date Returned
1018	30017 - 1st Cycle	Land Division (LD)	Dept. of Planning and Per		
1019	30017 - 2nd Cycle	Capital Projects Construc	Plans Review Section (PP		
1020	30017 - 3rd Cycle	Field Ops (FO)	Plans Review Section (PP	2/27/2015	2/9/2015

Page 1

Non-Board Transmittal Form

Linked Documents

Transmittal ID: 1020

Title: 30017 - 3rd Cycle

Transmitted To: Field Ops (FO)

Number Of Prints: 10

Due Date: 2/27/2015

Comments:

Project Rec ID: 30017 Development C - North End

Review: 2nd Cycle

Transmitted From: Plans Review Section (PPS)

Number Of Tracings: 10

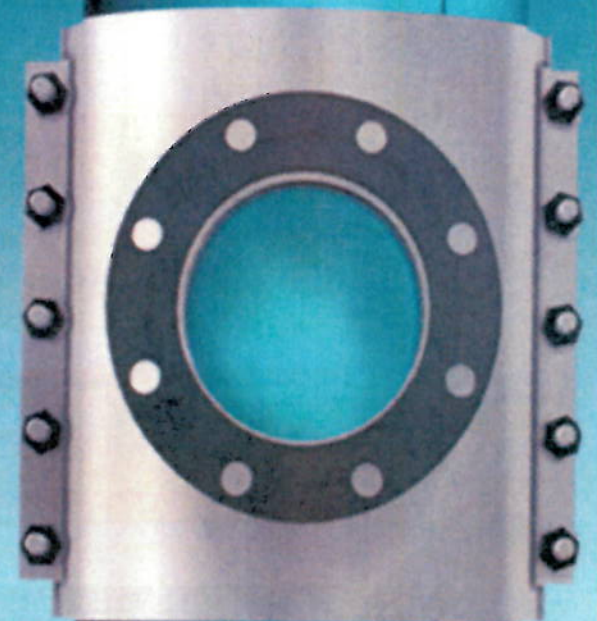
Date Returned: 2/9/2015

Submit Cancel/Close



Construction staff training

- Pipeline installation training – January 28 and 29
- Construction scheduling – March 24 and 25
- Safety in the field (OSHA 10 Training) – June 6 and 13





Current Focus

- Special Provision for Payment and Performance Schedule
- Special Provision for water main installation

SECTION **SP-XC** WATER MAINS

XC-1 GENERAL

The contractor is responsible for the proper storage, handling, installing, hydrostatic pressure testing and disinfecting newly installed water piping systems. Any damages to the piping system, failure of the pressure test results and not properly disinfecting the piping system will be rejected and the contractor will have to make the proper correct and replacement as necessary.

Water mains shall be stored, installed, hydrostatic pressure tested, and disinfected in accordance with Honolulu Board of Water Supply Water System Standards (2002), as amended.

XC-2 STORAGE OF PVC PIPE

1. PVC pipe shall be stored at the job site in unit packaging provided by the manufacturer. The Contractor shall exercise caution in storage of PVC pipe to avoid

SECTION **SP-XB** PAYMENT AND PERFORMANCE SCHEDULES

This special provision shall supplement Subsection 4.1(D), "Payment and Performance Schedules", of the GENERAL TERMS AND CONDITIONS.

1. PERFORMANCE SCHEDULE

- A. All preliminary or revised performance schedules shall be submitted electronically to the Officer-in-Charge.
- B. At all times, the performance schedule shall represent the Contractor's plan for orderly completion of the work. The Contractor shall submit a revised performance schedule whenever construction progress falls back

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City and County of Honolulu

Current Focus

- Position descriptions and assessing associated organizational structure changes

Form O-200 (Rev. 01-14)

City & County of Honolulu Position Description

Position No:

- For specific information on preparing position descriptions, please refer to the Department of Human Resources (DHR) Personnel Manual, Chapter 10.2, Preparing and Processing Position Descriptions.
- Complete, including on completing this form are located on the City's internal website only.
- This form is a Basic Work Table. It is designed around the form for the TAB key to make it easier and simpler to use. To make it easier to use, your choice to make it a specific form.
- Complete every item and applicable, including: (1) For the most part, this form is an official document which should be retained. It is not to be used for other purposes, including: (a) for performance evaluations; (b) for complete processing; (c) for the completed position description file forms through appropriate channels. Incomplete forms may be returned for completion by submitting the position description. The Appointing Authority certifies that the information provided herein is accurately described and the duties and responsibilities are consistent with the approved organization chart.
- This position description is not considered valid until action is taken by the Director of Human Resources.

Allocation:

Title Code:

Pay Grade:

Effective:

BU:

FLSA:

Other:

Org Code:

PPD:

Reference:

Appointing Authority:

Classification:

Approved:

Date:

Present Title			Department	
Present Pay Grade			Division	
Present Title Code			Branch	
Position Status	Permanent <input type="checkbox"/> Part-time <input type="checkbox"/> <input type="checkbox"/> Full-time		Section/Unit	
			Work Location	
Immediate Supervisor	Position No.	Title and Pay Grade		
Subordinates	Position No.	Title and Pay Grade		
Licenses or Certificates required to perform the essential functions of this position:				
Equipment or tools regularly operated or used (For trucks, provide GVW, TARE weight & license number):				
Special Work Requirements:				



Current Focus

- Lessons learned from demonstration project
- Standard operating procedures manual



BWS Project Request SOP 1

SOP Name	New Project Request		
Workflow Steps	x-x	Last Revision Date	1/7/15
Objective	Identify a system need and gather enough information to develop a Project Requirements Summary for a CPD engineer to use to scope a new potential CIP project. The information recorded in these steps all build towards the development of a Project Definition Report and ultimately a new project to be executed.		
Preconditions			
Personnel Involved	<ul style="list-style-type: none"> • Requesting Division (WSO, WR, or FOP) • CPD Support Branch 		
Products/Outputs	<ul style="list-style-type: none"> • Project Initiation Form • Project Requirements Summary 		
Notes/Assumptions			
Step	Responsible Party	Procedure	
1	Requesting Division	Identify a system need and submit a Project Request Form to	

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Next Steps...

- Execution of action plans and improvement implementations
- Rollout of MANAO (PMIS) modules
- Work with Human Resources Office on classification for Project Assistant/Coordinator positions



Next Steps...

- Expanding Inspector Training Program
- Development of performance metrics
- Ongoing consultation with GCA
- Continued project execution assistance to address workload and pilot, implement, and document standard operating procedures



CPD Optimization Overview

Assess

- Step 1 – Internal gap analysis
- Step 2 – Summarize findings
- Step 3 – Develop initial **Action Plan**

Implement

- Execute **Action Plan** (Engineering and Construction)
 - Develop initial workflows, SOPs, PMIS
- Provide Staff support for selected projects

We Are
Here

Optimize

- Add / organize staff to best aligned with long-term needs
- Ongoing staff support for selected projects
- Facilitate internal knowledge transfer

Implement and Optimize will continue to occur over several years

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Board of Water Supply
City and County of Honolulu

Mahalo for your support



ITEM FOR INFORMATION NO. 6

"May 26, 2015

GROUNDWATER
LEVELS

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

Chairman and Members:

Subject: Status Update of Groundwater Levels at All Index
Stations

There are two aquifer index wells within low groundwater status for the production week that ended on May 9, 2015. Kaimuki and Punaluu are under a caution status. The weekly production average for the period was 146.04 million gallons per day.

The Board of Water Supply rainfall index for the month of April 2015 was 100 percent of normal, with a 5-month moving average of 61 percent. As of May 5, 2015, the Hawaii Drought Monitor shows abnormally dry to moderate drought conditions across west Oahu.

The National Weather Service has been forecasting below-normal rainfall through May 2015, associated with El Niño. Subsequently, above-normal rainfall is anticipated for July through October 2015. Climate models indicate El Niño conditions may occur through the winter season, yielding below-normal rainfall from November 2015 through April 2016.

Most index monitor wells exhibit decreasing trends, reflecting the influences of limited rainfall from previous months and the increases in pumpage typical for this time of year.

Respectfully submitted,

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

Attachments"

The foregoing was for information only.

DISCUSSION

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

PUMPAGE, HEAD, AND RAINFALL REPORT

Week of 5/03/15 to 5/09/15

STATION		HEAD	STATION	MGD	HEAD	STATION	MGD	HEAD		MGD	HEAD
METRO			WINDWARD			EWA-WAIAANAE (CONT)			PH (CONT)		
KULIOUOU	0.00					MAKAHA IV	0.00		PEARL CITY II	0.94	
WAILUPE	0.00		WAIMANALO II	0.46		MAKAHA V	0.00		PEARL CITY III	0.47	
WAIALAE-IKI	0.00		WAIMANALO III	0.51		MAKAHA VI	0.00		WAIU	0.90	
AINA KOA	0.48		KUOU I	0.92		MAKAHA SHAFT	0.00	16.59	NEWTOWN	2.12	
AINA KOA II	0.95		KUOU II	0.06		KAMAILE	0.29		KAONOHI I	0.73	
WAIALAE SHAFT	0.00		KUOU III	0.76		WAIAANAE I	0.00		WAIMALU I	0.58	
MANOA II	1.66		LULUKU	1.01		WAIAANAE II	0.81		AIEA	0.23	
PALOLO	1.13		HAIKU	0.33		WAIAANAE III	0.48		AIEA GULCH 497	0.47	
KAIMUKI HIGH	2.86	22.63	IOLEKAA	0.05		MAKAKILO	0.64		AIEA GULCH 550	0.23	
KAIMUKI LOW	1.31		KAHALUU	0.49		HONOULIULI I	4.27		HALAWA 277	0.91	
WILDER	7.03		WAIHEE	0.00		HONOULIULI II	5.14		HALAWA 550	0.00	
BERETANIA HIGH	4.200	22.58	KAHANA	0.87		SUBTOTAL:	14.06		KAAHUMANU MTR (-)	0.00	
BERETANIA LOW	2.64		PUNALUU I	0.00	16.94	IMPORT FROM PH			KAAMILO FLO MTR (-)	0.00	
KALIH I HIGH	2.07	21.95	PUNALUU II	1.82		KAPOLEI LINE BSTR	16.79		KUNIA I	5.40	18.41
KALIH I LOW	3.57		PUNALUU III	1.17		HONOULIULI LB FLOW	16.80		KUNIA II	2.04	
KAPALAMA	0.38		KALUANUI	1.23			4.37		KUNIA III	1.39	
KALIH I SHAFT	8.52		MAAKUA	0.21		HONOULIULI I (-)	-4.27		HOAEAE	6.61	
MOANALUA	2.56	18.76	HAUULA	0.00		HONOULIULI II (-)	-5.14		EWA SHAFT	0.00	
SUBTOTAL:	39.36					SUBTOTAL:	28.55		WAIPAHU INTCON. (-)	-4.45	
			KAHUKU	0.08					EWA-WAIAANAE (-)	-28.55	
IMPORT FROM PH			OPANA	1.01		PEARL HARBOR			PH LOCAL USE:	12.68	
HALAWA SHAFT	3.76	16.36	WAIALEE I	0.99		WAIHAWA	1.30		TOTAL SUBURBAN:	69.65	
KAAMILO	0.00		WAIALEE II	0.40		WAIHAWA II	2.16				
KALAUAO	10.03	16.84	SUNSET BEACH	0.00		MILILANI I	3.68		KALAUAO SPRINGS	0.72	
PUNANANI	10.79		SUBTOTAL:	12.37		MILILANI II	0.00		BARBERS POINT (NP)	4.82	
KAONOHI II	0.00					MILILANI III	0.760		GLOVER TUNNEL (NP)	0.47	
WAIMALU II	0.00	14.80	WIND. EXPORT	0.14		MILILANI IV	0.68				
KAAHUMANU	0.65					WAIPIO HTS.	0.30		HEAD CONDITION		
HECO WAIU	2.69		HALEIWA-WAIALUA			WAIPIO HTS. I	0.39		CAUTION	ALERT	CRITICAL
MANANA	0.48		HALEIWA	0.00		WAIPIO HTS. II	0.37		KAIMUKI		
KAAHUMANU FLOW MT	0.00		WAIALUA	2.13		WAIPIO HTS. III	1.19		PUNALUU		
KAAMILO FLOW MTR	0.00		SUBTOTAL:	2.13		WAIPAHU	4.45	18.08			
TOTAL IMP/EXP WAI. INT:	0.00					WAIPAHU II	1.23				
IMPORT FRM WIND:	0.14		EWA-WAIAANAE			WAIPAHU III	1.34				
SUBTOTAL:	28.54		MAKAHA I	0.87		WAIPAHU IV	3.42				
			MAKAHA II	0.30		PEARL CITY SHAFT	1.040	14.51			
TOTAL METRO:	67.90		MAKAHA III	1.26		PEARL CITY I	0.35				

CWRM PERMITTED USE FOR BWS POTABLE SOURCES						PUMPAGE	2015	2014	GRAVITY	2015	2014
	A	B	C	D	E	SUBURB.	69.65	60.14	SUBURB.	8.07	7.01
	PERMITTED		DIFF.	YEAR/	DIFF.	METRO	67.90	67.05	METRO	0.42	0.44
	USE	2015	B-A	DATE	D-A	TOTAL:	137.55	127.19	TOTAL:	8.49	7.45
HONOLULU	45.27	39.78	-5.49						Manoa	0.17	
WINDWARD	25.21	16.40	-8.81			NUUANU #5			Palolo	0.25	
NORTH SHORE	4.08	4.61	0.53			(rainfall)	4.08"	1.21"	Waim. I&II	0.08	
WAIHAWA	4.27	3.46	-0.81						Waim. III&IV	0.19	
WAIAANAE	4.34	4.31	-0.03						Waihee incl.	0.96	
EWA-KUNIA	15.88	10.05	-5.83						Waihee tun.	1.68	
PEARL HARBOR	92.66	70.62	-22.04						Luluku	0.06	
TOTAL:	191.71	149.23	-42.48						Haiku	0.98	
									Kahaluu	2.56	
									Waia. C&C	1.40	
									Waia plant.	0.16	

DROUGHT STATUS REPORT
DRAFT IN MGD

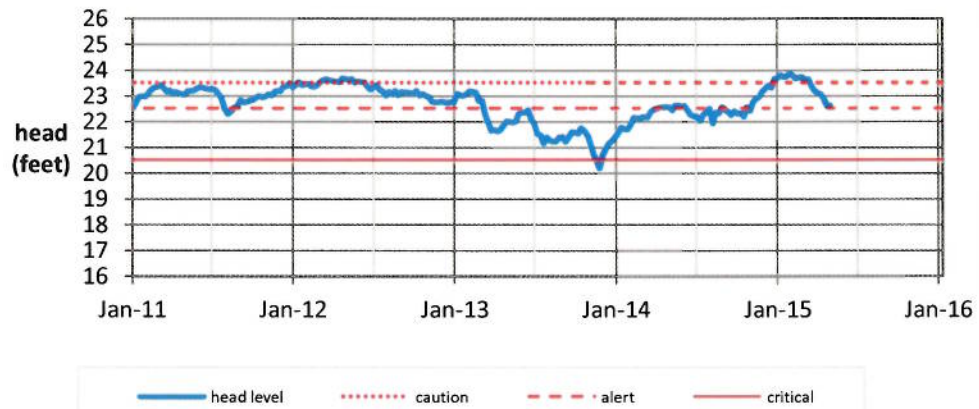
WATER USE DISTRICT	AUTHORIZED USE	2014	4/19-4/25 2015	2014	4/26-5/02 2015	2014	5/03-5/09 2015		
HONOLULU	45.27	34.43	40.39	33.15	37.46	35.18	39.92		
WINDWARD	25.21	11.57	15.81	11.49	15.48	11.87	16.26		
NORTH SHORE	4.08	3.33	4.43	3.46	4.37	3.67	4.61		
WAHIAWA	4.27	3.38	3.46	3.51	3.42	3.49	3.46		
EWA-WAIAANAE	20.22	20.96	43.22	20.51	43.09	19.11	44.17		
PEARL HARBOR	92.66	59.38	38.49	62.00	41.96	61.32	37.62		
TOTAL	191.71	133.05	145.80	134.12	145.78	134.64	146.04		

Accounts for in-district pumpage and transfers

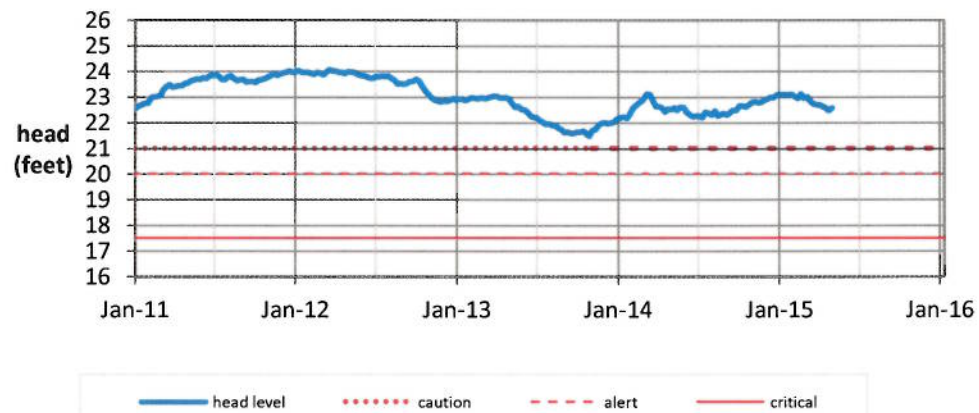
HEAD IN FEET

		2014	4/19-4/25 2015	2014	4/26-5/02 2015	2014	5/03-5/09 2015		
HONOLULU									
KAIMUKI		22.57	22.87	22.58	22.61	22.56	22.63		
BERETANIA		22.42	22.57	22.54	22.47	22.52	22.58		
KALIHI		22.21	22.00	22.15	21.85	21.12	21.95		
MOANALUA		19.09	18.92	19.06	18.87	18.99	18.76		
PEARL HARBOR									
HALAWA		16.75	16.45	16.64	16.43	16.56	16.36		
KALAUAO		17.18	16.89	17.12	16.85	17.10	16.84		
PEARL CITY		14.95	14.55	14.83	14.52	14.81	14.51		
WAIPAHI		18.47	18.13	18.42	18.12	18.39	18.08		
KUNIA		18.75	18.41	18.79	18.44	18.74	18.41		
EWA-WAIAANAE									
MAKAHA		13.01	16.50	13.16	16.52	13.29	16.59		
WINDWARD									
PUNALUU		17.87	17.09	17.85	16.87	17.85	16.94		
KALUANUI		17.91	16.93	17.87	16.89				
NORTH SHORE									
WAIALUA		10.96	11.04	11.02	11.04				

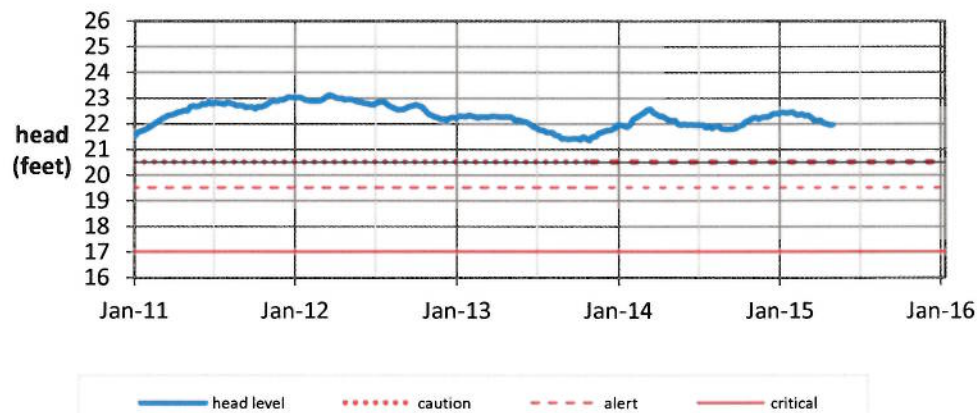
Kaimuki



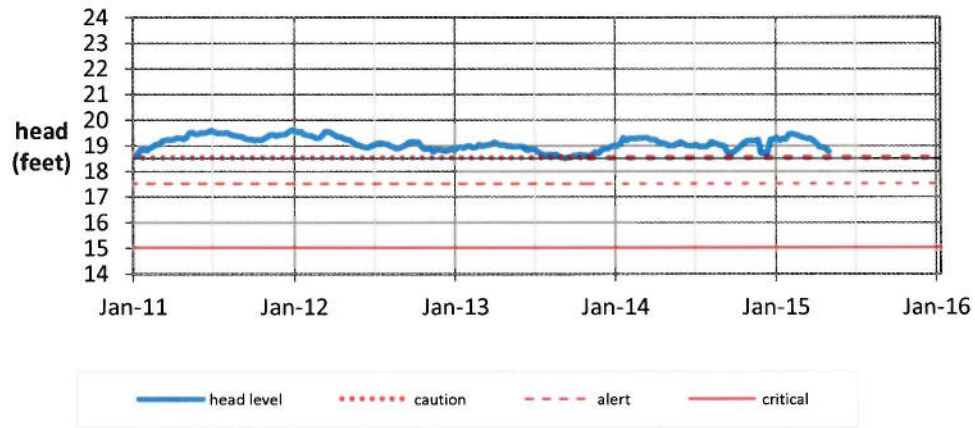
Beretania



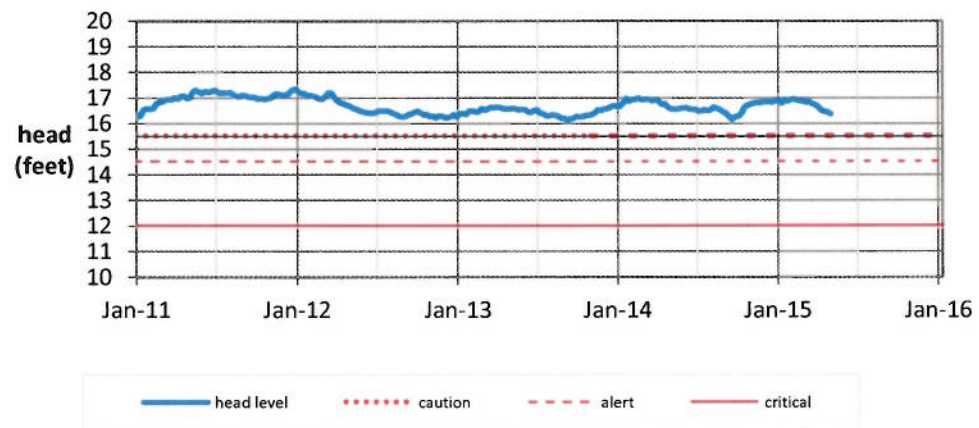
Kalihi



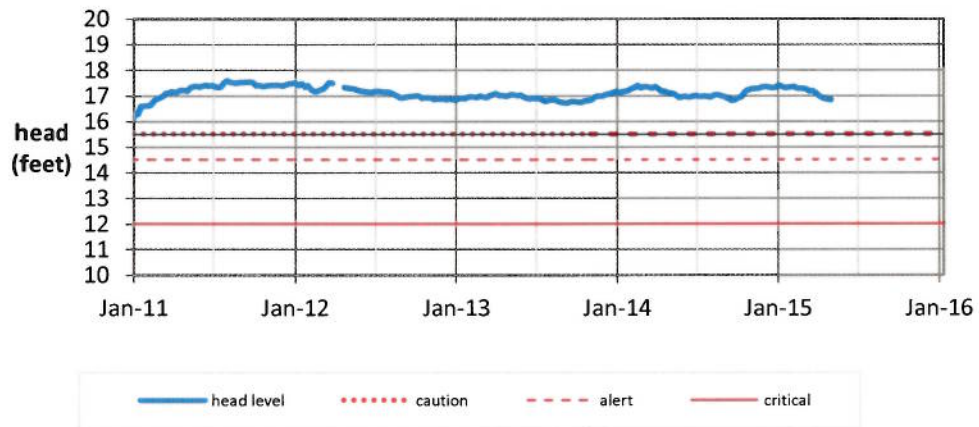
Moanalua



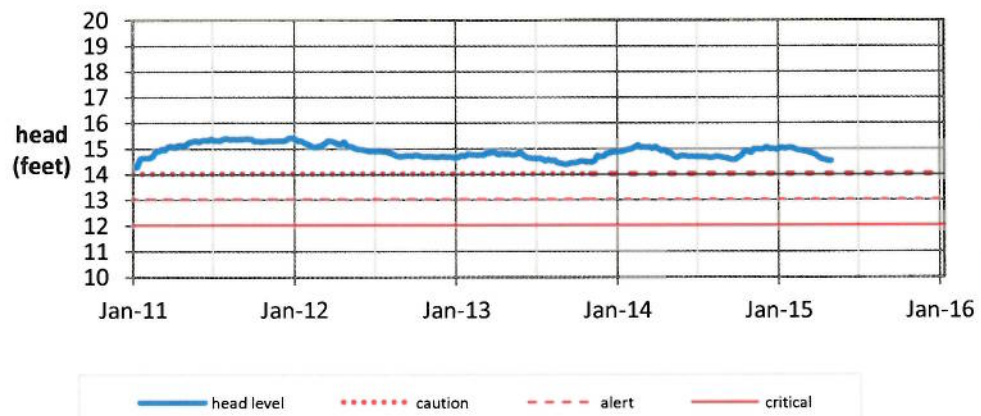
Halawa



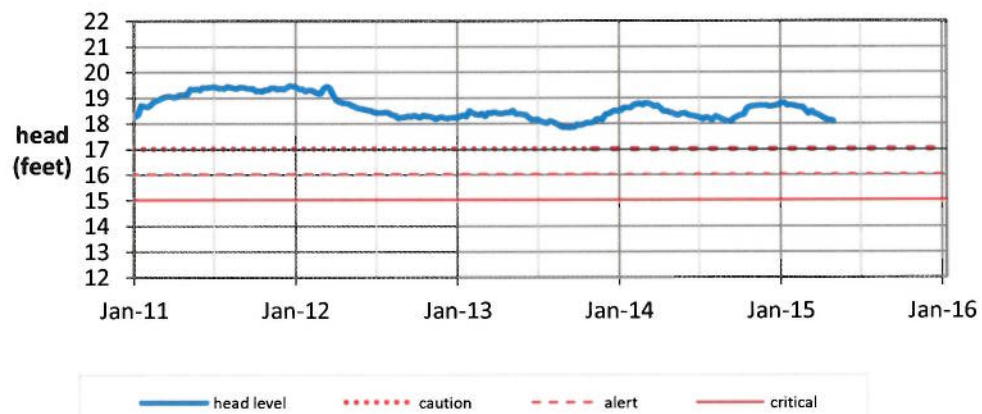
Kalauao



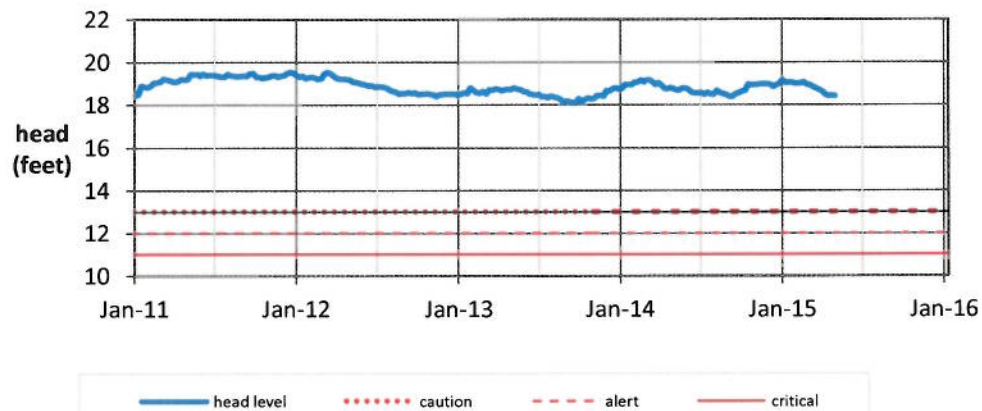
Pearl City



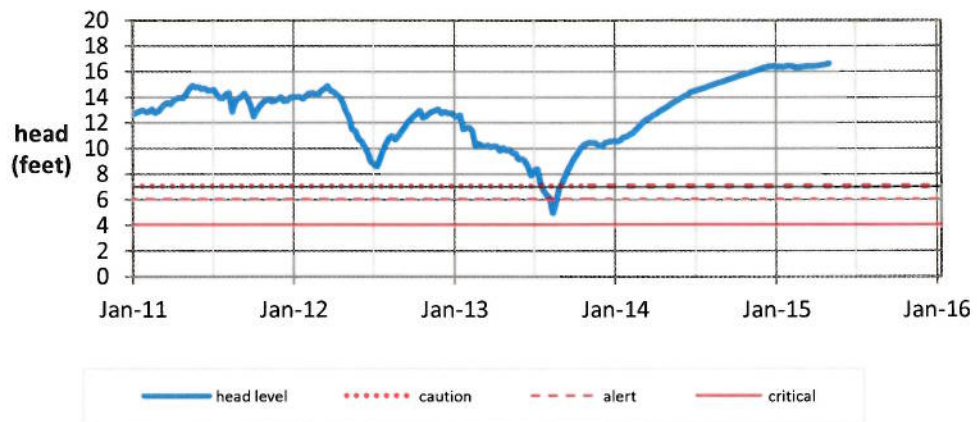
Waipahu



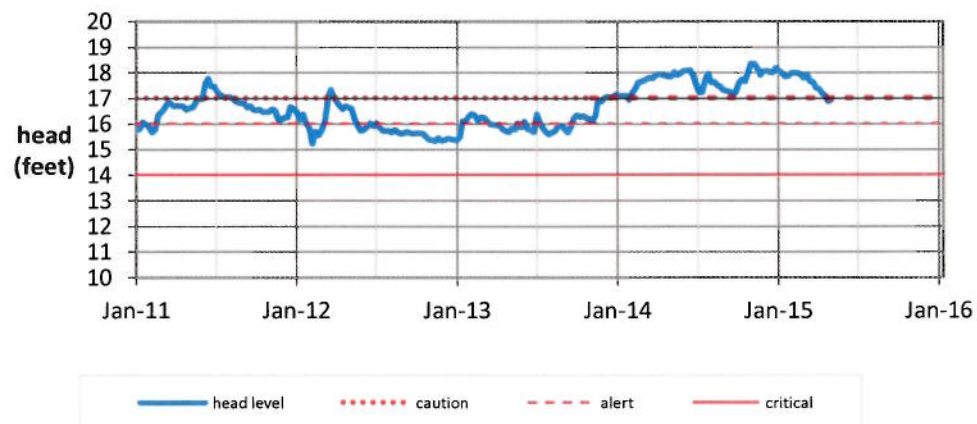
Hoeaee-Kunia



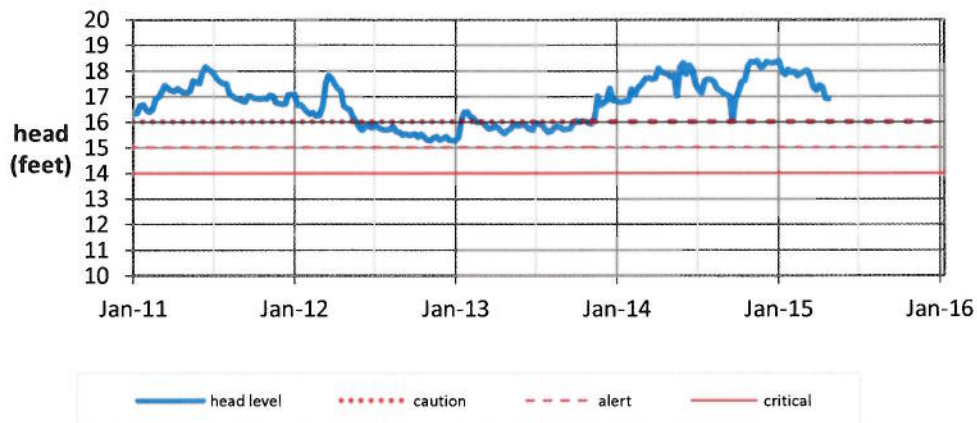
Makaha



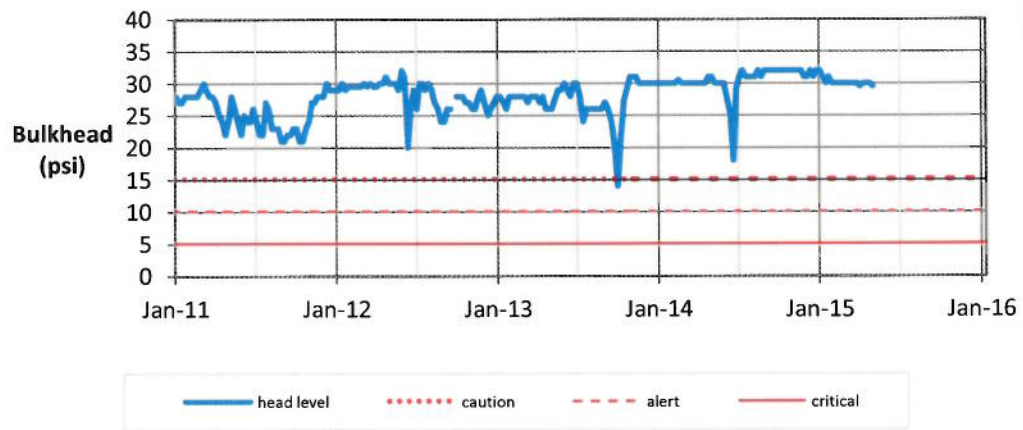
Punaluu



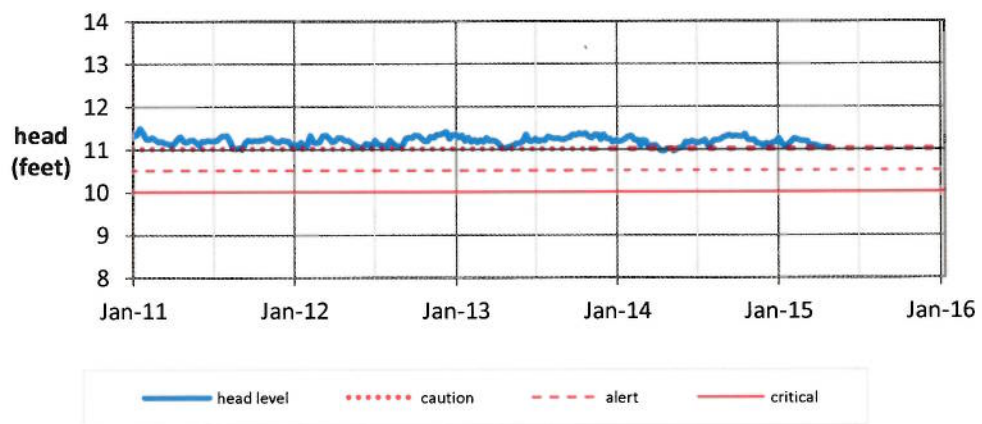
Kaluanui



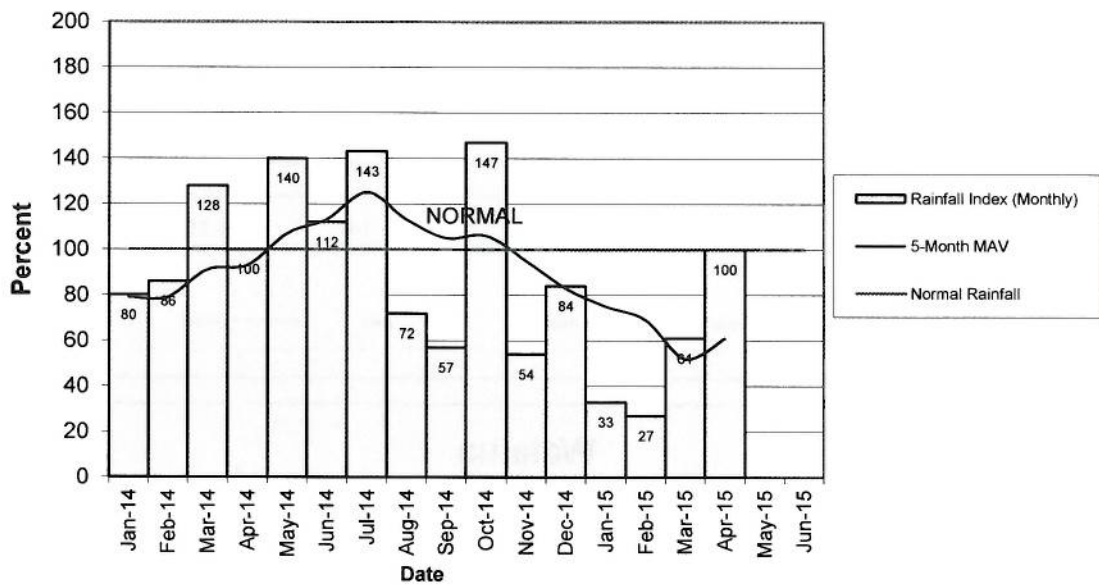
Waihee Tunnel



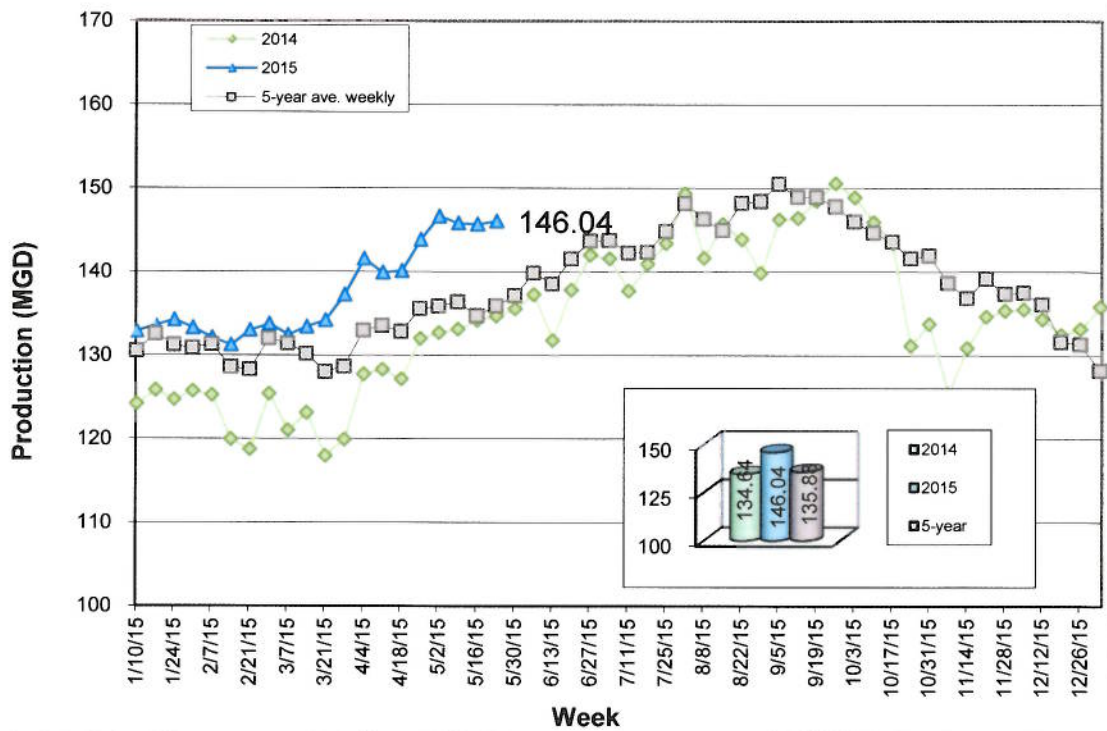
Waialua



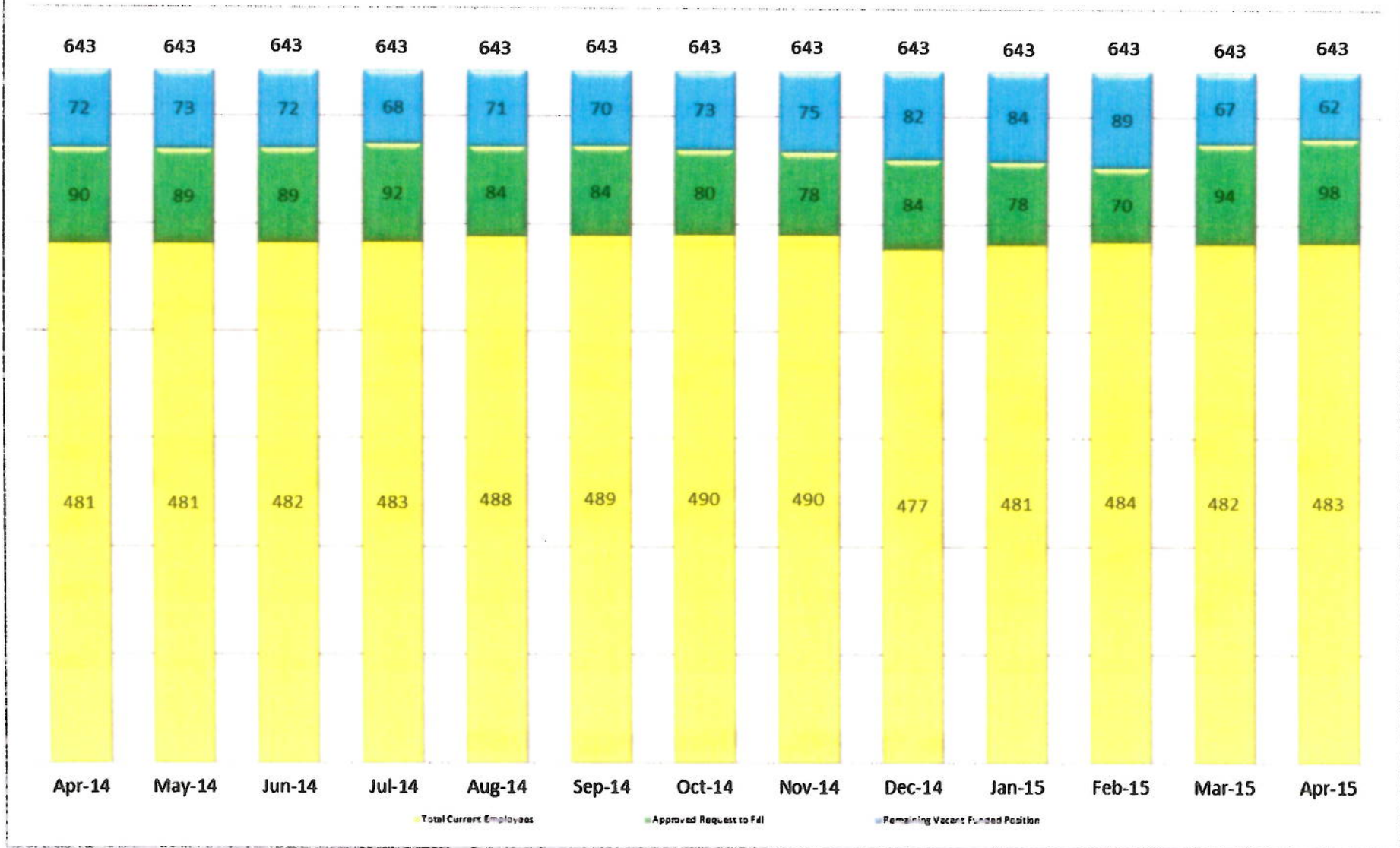
HONOLULU WATERSHED AREA Rainfall Intake



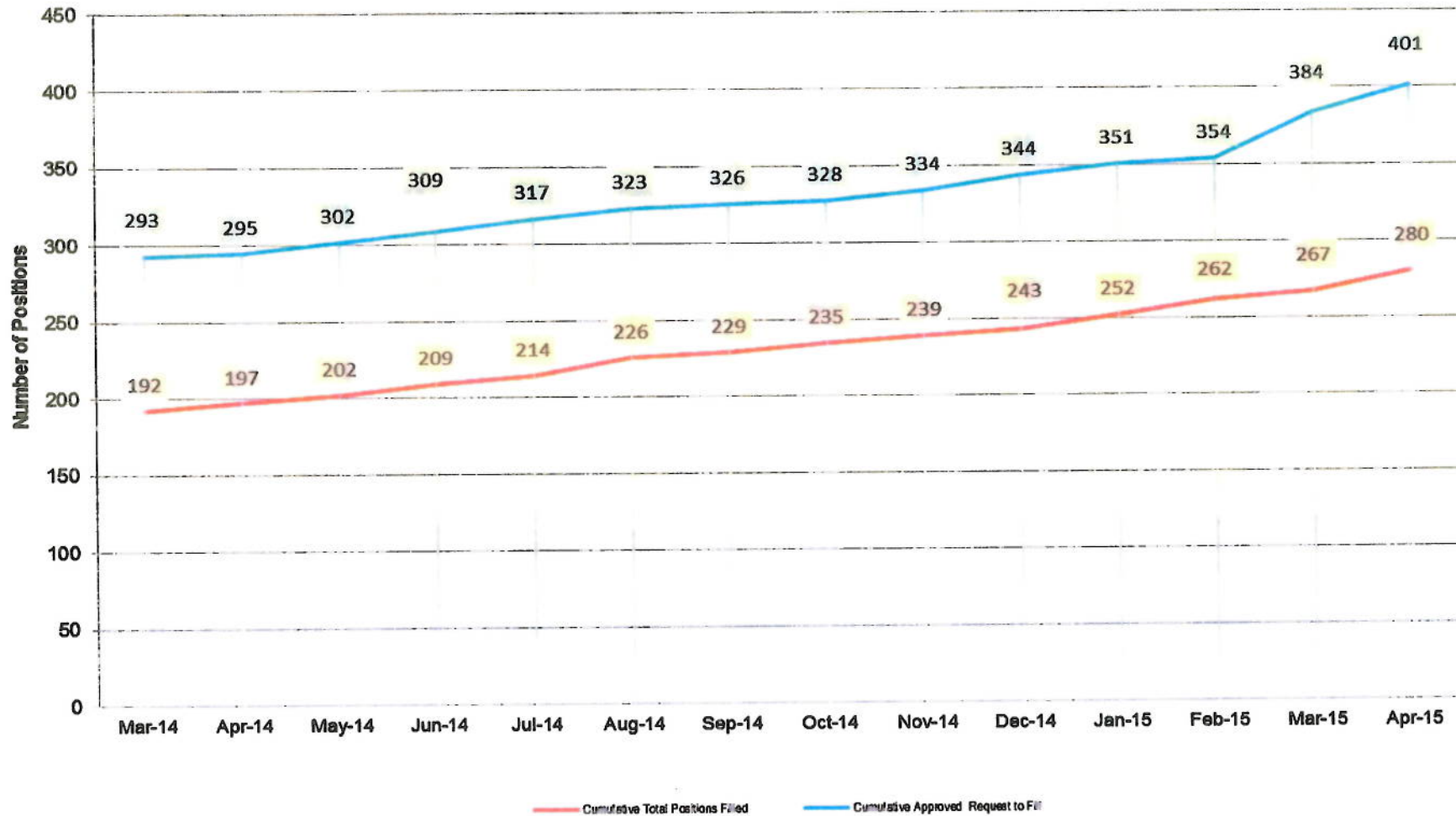
Weekly Production



Positions Filled April 1, 2014 through April 30, 2015



Cumulative Totals April 1, 2014 through April 30, 2015



DISCUSSION

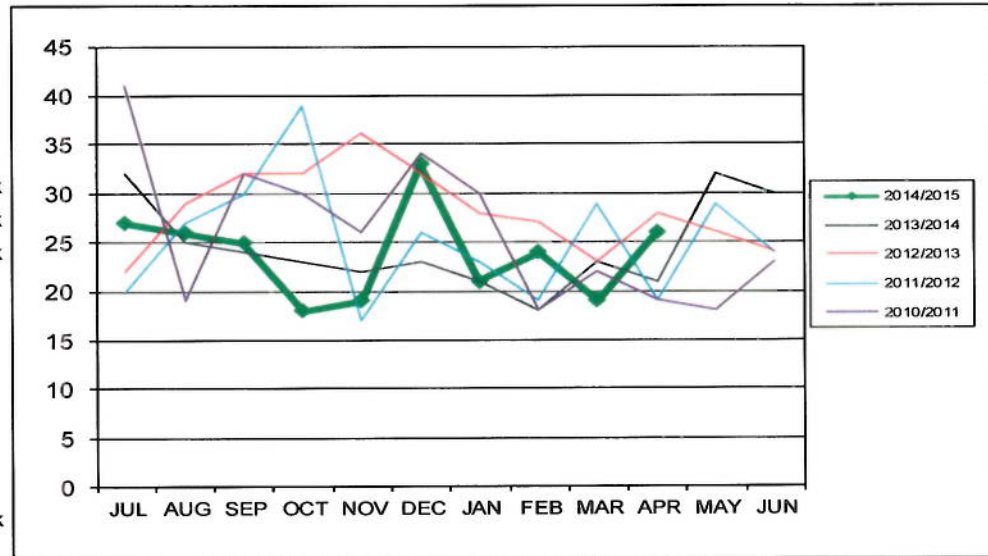
Teri Akana from the Human Resources Office gave the report. There were no comments or discussion.

ITEM FOR INFORMATION NO. 8

WATER MAIN REPAIR REPORT for April 2015

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2014/2015	27	26	25	18	19	33	21	24	19	26			238
2013/2014	32	25	24	23	22	23	21	18	23	21	32	30	294
2012/2013	22	29	32	32	36	32	28	27	23	28	26	24	339
2011/2012	20	27	30	39	17	26	23	19	29	19	29	24	302
2010/2011	41	19	32	30	26	34	30	18	22	19	18	23	312

Date	Address	Size	Cause
4/1	91-762 Ihipehu St.	8" C.I.	Corrosion
4/3	1765 Hoolaa Pl.	8" C.I.	Corrosion
4/3	1697 Kaweloka St.	8" C.I.	Corrosion
4/3	99-512 Aiea Hts. Dr.	8" C.I.	Corrosion
4/4	1903 Laniloa Pl.	6" C.I.	Corrosion
4/5	99-726 Hulumanu St.	8" C.I.	Bear on Rock
4/6	85-945 Mill St.	8" C.I.	Bear on Rock
4/9	4385 Halupa St.	12" P.V.C.	Bear on Rock
4/9	84-303 Makau St.	8" P.V.C.	Unknown
4/13	91-740 Ihipehu St.	8" C.I.	Corrosion
4/15	Lewers St. & Helumoa	8" C.I.	Unknown
4/15	Lewers St. & Helumoa	8" C.I.	2nd Break
4/15	91-746 Ihipehu St.	8" C.I.	Corrosion
4/18	590 Kailua Rd.	16" A.C.	Pressure
4/18	94-341 Peke Ln.	4" C.I.	Corrosion
4/19	99-567 Hokea St.	8" C.I.	Bear on Rock
4/19	2416 Holomua Pl.	4" C.I.	Pressure
4/19	3846 Mariposa Dr.	8" C.I.	Unknown
4/21	98-525 Kaonohi St.	12" C.I.	Corrosion
4/21	91-746 Ihipehu St.	8" C.I.	Corrosion
4/22	904 Waiakamilo Rd.	12" C.I.	Corrosion
4/22	94-142 Pupupuhi St.	8" A.C.	Damage
4/23	3716 Campbell Ave.	8" C.I.	Corrosion
4/23	91-715 Ihipehu St.	8" C.I.	Corrosion
4/29	2002 Kalakaua Av.	8" C.I.	Unknown
4/30	5044 Kilauea Av.	12" C.I.	Corrosion



Bold * - Pro-active Leak Repair

26.51 miles of pipelines were surveyed by the Leak Detection Team in the month of April.

DISCUSSION: Field Operations Program Administrator Daryl Hiromoto gave the report. There were no comments or discussion.

MOTION TO
RECESS INTO
EXECUTIVE
SESSION

Upon unanimously approved motion, the Board Recessed into Executive Session Pursuant to [HRS § 92-5] at 3:53 PM to Consult with the Board's Attorney and Legal Counsel and to Consider Issues Pertaining to Matters Posted for Discussion at an Executive Session.

OPEN
SESSION

The Board reconvened in open session at 5:10 PM

MOTION TO
ADJOURN

There being no further business Chair Miyashiro at 5:10 PM called for a motion to adjourn the Open Session. Ross Sasamura so moved; seconded by Adam Wong and unanimously carried.

THE MINUTES OF THE REGULAR SESSION BOARD MEETING ON MAY 26, 2015 WERE APPROVED AT THE JUNE 22, 2015 BOARD MEETING			
	AYE	NO	COMMENT
DUANE R. MIYASHIRO	X		
ADAM C. WONG			ABSENT
THERESIA C. MCMURDO	X		
DAVID C. HULIHEE	X		
KAPUA SPROAT			ABSTAINED
ROSS S. SASAMURA	X		
FORD N. FUCHIGAMI	X		

Respectfully submitted,



LISA K. KIM

APPROVED:



DUANE R. MIYASHIRO
Chair of the Board

JUN 22 2015

Date