

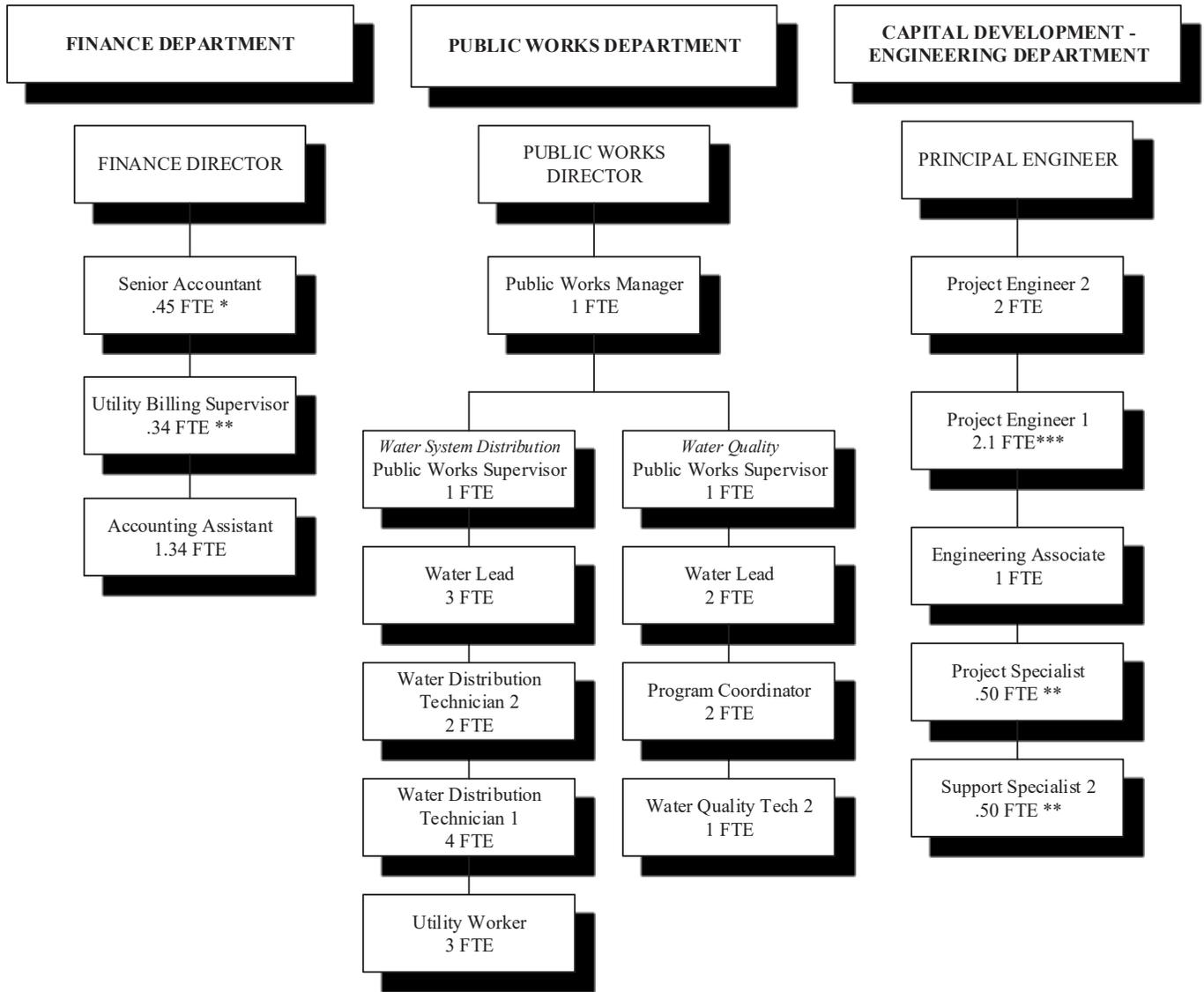
# Water Fund

- Utility Billing
- Enterprise Management & Administration
- Water Services
- Water System Distribution
- Water System Quality
- Water Replacement Projects



# Water Fund

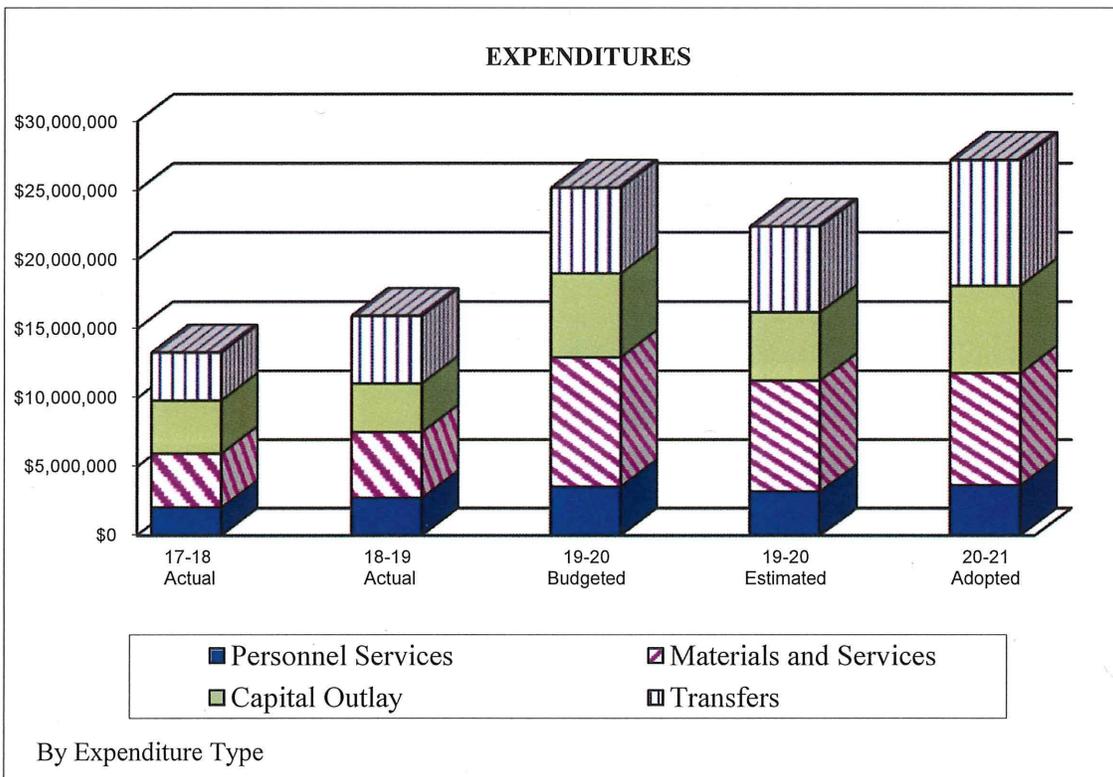
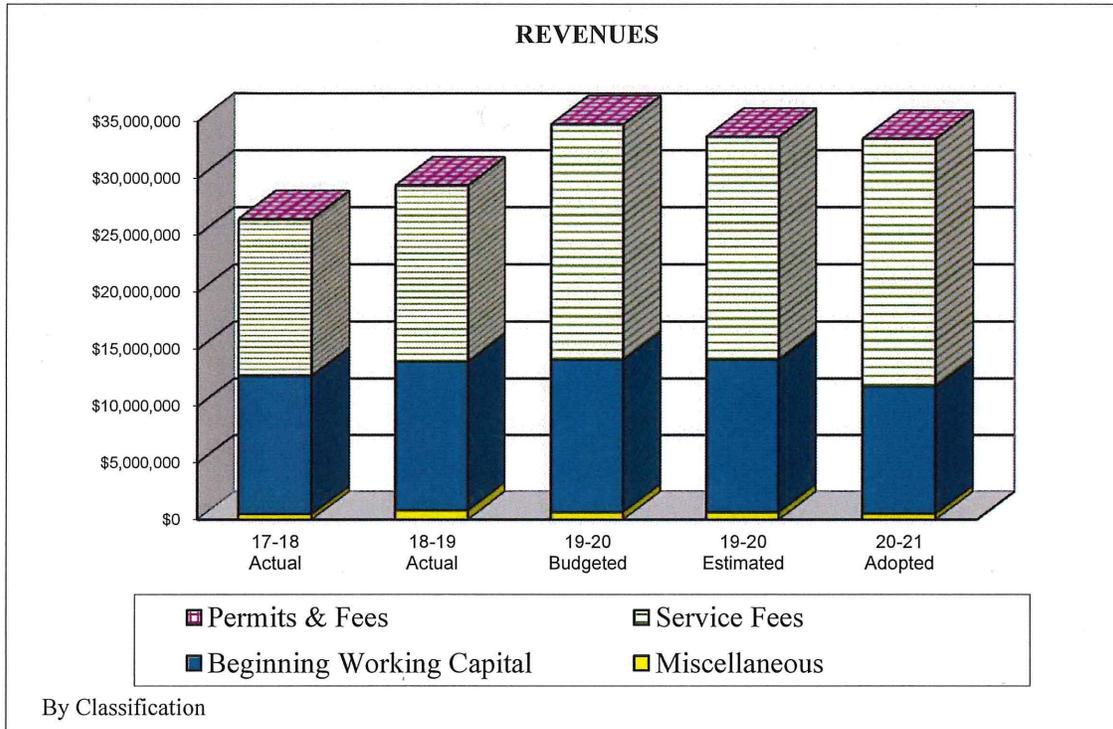
FY 2020-21 BUDGETED POSITIONS



\* Partially funded in General/Water/Sewer/Storm Drain Funds  
 \*\* Partially funded in Water/Sewer/Storm Drain Funds  
 \*\*\* Partially funded in General/Street/Water/Sewer/Storm Drain Funds

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET

**WATER FUND**  
ADOPTED FY 2020-21



CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET

**WATER FUND (MAJOR FUND)  
SUMMARY OF REVENUES AND EXPENDITURES  
AND OTHER FINANCING SOURCES & USES**

	<u>FY 2017-18 Actual</u>	<u>FY 2018-19 Actual</u>	<u>FY 2019-20 Budgeted</u>	<u>FY 2019-20 Estimated</u>	<u>FY 2020-21 Adopted</u>
<b>Revenues:</b>					
Interest on investments	\$206,543	\$295,435	\$313,600	\$313,600	\$183,500
Intergovernmental revenue	101,872	88,526	80,000	80,000	80,000
Charges for services	13,745,028	15,450,529	20,658,244	19,560,000	21,704,000
Project engineering charges	91,179	347,548	200,000	200,000	200,000
Miscellaneous	70,623	75,770	50,000	55,223	50,000
Sub Total Revenues	<u>\$14,215,245</u>	<u>\$16,257,808</u>	<u>\$21,301,844</u>	<u>\$20,208,823</u>	<u>\$22,217,500</u>
<b>Expenditures:</b>					
Personnel services	\$2,026,674	\$2,735,960	\$3,555,990	\$3,197,311	\$3,653,736
Materials & services	3,937,402	4,795,503	9,396,132	8,074,486	8,156,672
Capital outlay	3,874,358	3,551,019	6,061,837	4,942,231	6,316,585
Sub Total Expenditures	<u>\$9,838,434</u>	<u>\$11,082,482</u>	<u>\$19,013,959</u>	<u>\$16,214,028</u>	<u>\$18,126,993</u>
Revenues Over/Under Expenditures	\$4,376,811	\$5,175,326	\$2,287,885	\$3,994,795	\$4,090,507
<b>Other financing sources (uses):</b>					
Transfers in	\$0	\$0	\$0	\$0	\$0
Transfers out	(3,466,361)	(4,859,850)	(6,193,070)	(6,193,070)	(9,094,636)
Total Other Financing Sources (Uses):	<u>(3,466,361)</u>	<u>(4,859,850)</u>	<u>(6,193,070)</u>	<u>(6,193,070)</u>	<u>(9,094,636)</u>
Net Change in Fund Balance	\$910,450	\$315,476	(\$3,905,185)	(\$2,198,275)	(\$5,004,129)
<b>Fund Balance/Working Capital</b>					
Beginning of Year	<u>12,236,827</u>	<u>13,147,277</u>	<u>13,462,753</u>	<u>13,462,753</u>	<u>11,264,478</u>
<b>Fund Balance (Contingency)/Working Capital</b>					
End of Year	<u>\$13,147,277</u>	<u>\$13,462,753</u>	<u>\$9,557,568</u>	<u>\$11,264,478</u>	<u>\$6,260,349</u>

Contingency for FY 2020-21 adopted budget is available for appropriation upon the City Council's approval. The contingency policy is to maintain a target of 42% of operating expenditures (personnel services and materials and services) in contingency for continuing operations. The FY 2020-21 general contingency totals \$5,160,349 and consists of \$4,403,124 operational contingency, \$513,491 for equipment and vehicle replacement, and \$243,734 for future replacement of the Operations facility. The general contingency represents 44% of the operational expenditures (personal services and materials and services). In addition, the Water Fund has separate reserves of \$500,000 for catastrophic loss reserve for the Joint Water Commission's operating plant and \$600,000 in a water revenue stabilization account

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET

<b>FUND:</b> 501 WATER	<b>SUMMARY FOR WATER FUND:</b> INCLUDING: CIP PROJECTS, FINANCE, AND PUBLIC WORKS
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**MISSION STATEMENT:**

To provide potable water to the City within the mandates of the State of Oregon Department of Human Services and Federal Environmental Protection Agency that is of sufficient quality, quantity and pressure to meet all of the applicable rules criteria.

REQUIREMENTS	FY 2017-18 ACTUAL	FY 2018-19 ACTUAL	FY 2019-20 BUDGETED	FY 2020-21 PROPOSED	FY 2020-21 ADOPTED
POSITION	21.69	26.88	27.63	28.63	28.63
PERSONNEL SERVICES	\$2,026,674	\$2,735,960	\$3,555,990	\$3,677,460	\$3,653,736
MATERIALS & SERVICES	3,937,402	4,795,503	9,396,132	7,819,672	8,156,672
CAPITAL OUTLAY	3,874,358	3,551,019	6,061,837	6,316,585	6,316,585
TRANSFERS	3,466,361	4,859,850	6,193,070	9,094,636	9,094,636
CONTINGENCY	0	0	9,557,568	6,573,625	6,260,349
<b>TOTAL</b>	<b>\$13,304,795</b>	<b>\$15,942,332</b>	<b>\$34,764,597</b>	<b>\$33,481,978</b>	<b>\$33,481,978</b>

Funding Sources:	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2020-21
Beginning Working Capital	\$12,236,827	\$13,147,277	\$13,462,753	\$11,264,478	\$11,264,478
Intergovernmental Revenue	101,872	88,526	80,000	80,000	80,000
Permits & Fees	51,989	33,835	20,000	20,000	20,000
Water Service Fees	13,693,039	15,416,694	20,638,244	21,684,000	21,684,000
Miscellaneous Revenues	368,348	718,751	563,600	433,500	433,500

Water Projects:	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2020-21
3611 Joint Water Commission Project	\$1,047,618	\$1,185,151	\$1,547,500	\$1,084,005	\$1,084,005
3700 Maint. & Replacement Program	30,300	11,456	0	0	0
3701 Water System Improvements	2,655,015	2,088,992	3,670,500	4,534,000	4,534,000

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> FINANCE
<b>PROGRAM:</b> 0545 UTILITY BILLING	<b>PROGRAM MANAGER:</b> SUE ANN KONIAK

**Program Goal:**

To maintain the financial stability for the operation and maintenance of City’s water system by providing citizens and businesses with timely and accurate utility bills and the subsequent collection and deposit of these charges. These efforts are aimed at achievement of the City Council priority of “Build stronger relationships with local special districts” as all utility services are provided in partnership with other regional agencies such as Clean Water Services and the Joint Water Commission. This effort applies to Water, Sanitary Sewer and Storm Drain utilities.

REQUIREMENTS	FY 2017-18 ACTUAL	FY 2018-19 ACTUAL	FY 2019-20 BUDGETED	FY 2020-21 PROPOSED	FY 2020-21 ADOPTED
POSITION	1.64	2.08	2.13	2.13	2.13
PERSONNEL SERVICES	\$138,860	\$188,479	\$209,477	\$225,323	\$225,323
MATERIALS & SERVICES	152,828	169,791	191,215	238,917	238,917
CAPITAL OUTLAY					
TRANSFERS	2,081	2,976	2,752	3,484	3,484
<b>TOTAL</b>	<b>\$293,769</b>	<b>\$361,246</b>	<b>\$403,444</b>	<b>\$467,724</b>	<b>\$467,724</b>

**Program Objective (services provided):**

- Coordinate meter reading and generate a timely, easy to understand bill to customers for water usage, water meter and water line service.
- Promptly post payments of water charges to the appropriate customer account(s).
- Provide citizens and businesses with outstanding customer service for the following functions:
  - Information regarding their water accounts
  - Establishing and closing customer accounts
  - Assist customers with navigating the web in making on-line payments
  - Assistance with payment arrangements, account hardship assistance payments, delinquent charges, leak adjustments, scheduling turn-on and discontinuance of water services
- Update and maintain customer records.
- Implement City Code with respect to water service regulations.
- Perform prudent and timely collection practices to maintain a low delinquency and non-payment rate. Assign severely delinquent accounts to the collection agency for assistance.
- Perform a monthly reconciliation between customer accounts and the general ledger.
- Recommend the adjustment of service rates and control expenses sufficiently to maintain adequate cash flow and debt service coverage ratios.

**Progress on FY 2019-20 Action Plan:**

The City is currently in the process of renegotiating a contract to complete a major upgrade to the Utility Billing System with the present vendor and hope to receive their contract along with a time line of implementation by the end of June 2020. We hope to have the new upgrade operational during FY 2020-21. In addition, the City continues to work toward the process of implementing radio read capability for reading meters in new developments such as in the South Cooper Mountain area or large meters in vaults.

During the current fiscal year, the City entered into an agreement with Community Action Organization to provide a mechanism to distribute funds from the City to its utility customers who are in need of financial assistance. Community Action Organization will provide an intake process for applicants desiring financial assistance and determine eligibility according to criteria used for the Low Income Home Energy Assistance Program and the Oregon Energy Assistance Program. Funding for the current fiscal year is still provided under the City’s General Fund.

**CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET  
CURRENT LEVEL OF SERVICES**

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> FINANCE
<b>PROGRAM:</b> 0545 UTILITY BILLING	<b>PROGRAM MANAGER:</b> SUE ANN KONIAK

In regional water business:

- The City became a member of the Willamette Intake Facility Commission that will create a new source of drinking water. The City joined the Willamette Water Supply System Commission as of July 1, 2019.
- The City Council and TVWD Board agreed for the city to assume responsibility for nearly 16,000 people in areas south of Highway 26 and west of Scholls Ferry Road beginning in FY 2018-19. Benefits for the transferring customers are monthly bills (instead of bi-monthly) and potentially lower rates (on average about \$183 per year) based on the difference between the City's existing water rates and TVWD's.
- Initiate capital planning to connect the City's water system to the Joint Water Commission's North Transmission Line.

**FY 2020-21 Action Plan:**

- Upgrade of the City's current Utility Billing System to the vendor's latest cloud platform.
- With the withdrawal of water customers from TVWD and the City taking over and providing water service to more areas of the City, continue the set-up of new customer accounts. There will also be several thousand new accounts created by residential development at S. Cooper Mountain.
- Maintain water rates sufficient to meet operating costs, replacement, upgrades and debt service coverage ratio.
- Continue to pursue staffing changes to accommodate succession plans across the utility related staff. This includes management staff changes in assignment.
- Continue efforts to implement the City's first non-potable water irrigation (purple pipe) system in the South Cooper Mountain development area.
- Full implementation of the agreement with Community Action Organization to assist customers with utility hardship assistance. Funding will be now budgeted in the Water Fund, rather than the General Fund as in prior years.

<b>Performance Measures:</b>	<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	<b>FY 2020-21</b>
	<b>Actual</b>	<b>Actual</b>	<b>Budgeted/Revised</b>	<b>Adopted</b>
Number of water accounts*	18,031	22,400	22,925 / 22,700	23,000
Number of water accounts maintained per FTE *	4,508	4,480	4,585 / 4,540	4,592
Avg. Monthly Uncollectable Account Write Offs	\$2,400	\$1,400	\$2,000 / \$1,355	\$2,000
Percentage of Account Write Offs of Total Sales	.19%	.11%	.12% / .11%	.11%
Number of customers receiving e-bills**	4,620	3,492^	3,806^ / ^	^
Percentage of Accounts using e-bills**	26%	15.6%^	16.6% / ^	^
Number of Debit/Credit Card transactions through the web**	81,800	89,200	97,200 / 119,600	130,000
Number of Autopay transactions through the web**	38,200	43,975	47,930 / 61,841	70,000
Total \$ all utility payments, received through the web**	\$11,180,000	\$12,458,000	\$13,579,000 / \$17,900,000	\$20,000,000

\* Note: This Performance Measure is based on the City Water accounts only. It does not include City of Beaverton citizens and businesses which are served water by Tualatin Valley Water District, West Slope Water District or Raleigh Water District.

\*\*Based on the web payment system as a whole, not just water.

^ Performance measure changed to include only current active accounts.

**Performance Outcomes and Program Trends:**

The program has been better able to meet the increasing demand for utility billing services with the increase of one staff member for customer service and the increased involvement of another Senior Accountant in Utility Billing management. The amount of work involved with transitioning more than 4300 customer accounts from the Tualatin Valley Water District to the city was

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> FINANCE
<b>PROGRAM:</b> 0545 UTILITY BILLING	<b>PROGRAM MANAGER:</b> SUE ANN KONIAK

**Performance Outcomes and Program Trends (continued):**

considerable and on-going. As the more intensive phases of the withdrawal process declines, then the work of finally upgrading the billing and customer account software will take off.

The program's low percentage in account write offs, for the most part, is due to the fact that water service is discontinued for non-payment of an active account. Staff is very diligent in working with customers who may be struggling financially. The City offers payment arrangements and if applicable, hardship payment assistance for eligible accounts through Community Action Organization and other outside agencies.

Water consumption for the current year is expected to be higher than prior years due to the withdrawal of approximately 4300 accounts from Tualatin Valley Water District. In addition, there was not a lot of growth in the past years, but is expected to increase for FY 2020-21, as construction continues in the new South Cooper Mountain area. As areas of the City are drawn into the City's water service area from other water districts, customer counts will increase.

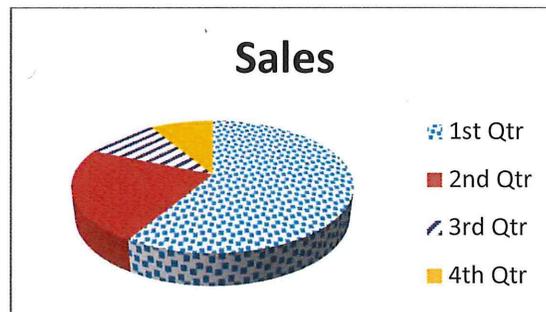
The City of Beaverton is an active member of the Joint Water Commission and Barney Reservoir Commission purchasing water for industrial, commercial, domestic and irrigation purposes. Water consumption trends in Beaverton mirror the per capita reduction experienced by other utilities. While conservation is encouraged to reduce the amount of wasteful water usage, the reduction in annual sales affects the financial health of the utility. The City of Beaverton has made it a practice to make gradual increases in both base and consumption rates (per 100 cubic feet) and anticipates another increase in the coming year based on careful analysis of the performance of the Water Fund. There is a 40 cent increase planned (11.2%) in the water consumption rate, with 10 cents of the rate increase covering increased operations and 30 cents covering debt service for the planned capital projects. Water base is projected to increase 6.25% for FY 20-21.

The following is a table of the various monthly water utility costs for an average residential household using 8 CCF of water provided by the City. Rates are adjusted as needed, to maintain the financial stability of the water fund. The rates include an allowance for a 5% Right-of-Way Fee for the impact of water service on the streets and other parts of the system.

	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21 **
Water Using 8 CCF:				
Base*	\$14.00	\$15.00	\$16.00	\$17.00
Consumption*	<u>24.56</u>	<u>25.36</u>	<u>28.56</u>	<u>31.76</u>
Total	<u>\$38.56</u>	<u>\$40.36</u>	<u>\$44.56</u>	<u>\$48.76</u>

\*\* Proposed

The graph below illustrates the variability of water sales during the seasons of the year. 1<sup>st</sup> Quarter is July, August and September which typically show evidence of lawn and yard irrigation. Beaverton purchases water from the Joint Water Commission even in the winter months to fill the underground storage capacity of the Aquifer Storage and Recovery system to cover summer water use.



**CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET  
CURRENT LEVEL OF SERVICES**

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0740 ENTERPRISE MANAGEMENT & ADMIN.	<b>PROGRAM MANAGER:</b> DAVID WINSHIP

**Program Goal:**

To provide engineering and policy expertise for management of city enterprise funds and water resources. The program participates in development of intergovernmental agreements and conducts long-term planning to ensure the city can provide an adequate quantity and quality of supply of drinking water, water for firefighting, adequate funding, perpetual replacement of existing public infrastructure as needed and extra-capacity facilities necessary to serve existing consumers and for growth. The program also works to protect the safety and integrity of the public water system from cross connections and promote healthful drinking water by enforcement of the Beaverton Code and the Oregon Health Authority (OHA) Drinking Water Program Administrative Rules, which require the installation, inspection, operation, maintenance, and annual testing of backflow devices.

REQUIREMENTS	FY 2017-18 ACTUAL	FY 2018-19 ACTUAL	FY 2019-20 BUDGETED	FY 2020-21 PROPOSED	FY 2020-21 ADOPTED
POSITION	3.80	5.80	6.50	6.50	6.50
PERSONNEL SERVICES	\$415,603	\$685,311	\$1,002,782	\$1,012,264	\$1,012,264
MATERIALS & SERVICES	148,238	340,502	1,307,200	784,120	784,120
CAPITAL OUTLAY					
TRANSFERS	51,701	22,969	36,979	24,247	24,247
<b>TOTAL</b>	<b>\$615,542</b>	<b>\$1,048,782</b>	<b>\$2,346,961</b>	<b>\$1,820,631</b>	<b>\$1,820,631</b>

**Program Objectives:**

Overall responsibility for management and implementation of the multi-year Capital Improvements Plan (CIP), including administration of Water Fund (501) and Water Fund Construction (505) fund budgets and coordination and participation with regional water agencies, including emergency planning and management. Other key objectives include:

- Update and administer the current water master plan and; maintain and administer water infrastructure renewal and replacement plan.
- Ensure City compliance with OHA Drinking Water Program design standards and plan review exemption.
- For the South Cooper Mt. annexation area, Urban Reserve Area 6B, BURA, Enterprise Zone, continue to plan, design, and build required potable and non-potable water infrastructure through the CIP and/or coordination with the Site Development Division.
- Participate in committees of the Joint Water Commission (JWC), Regional Water Providers Consortium (RWPC), Barney Reservoir Joint Ownership Commission (BRJOC), and other related programs. Participate in the Willamette Water Supply Program (WWSP) and the Willamette River “Water Intake Facility” Commission as a new participating financial partner in the project.
- Provide expertise on water resource, water quality, and water rights issues, design standards and cooperative agreements to the City’s Public Works Department, and as needed for the JWC and Barney Reservoir Joint Ownership Commission.
- Provide oversight for the production and distribution of the annual US EPA-mandated Consumer Confidence Report (Water Quality) to all city water customers.
- Review and provide technical expertise to the cross connections program which administers the annual testing program for privately-owned backflow assemblies and devices as required by OHA.

**Progress on FY 2019-20 Action Plan:**

**New Water Supply Source Update - WWSS**

In 2013, the Beaverton City Council authorized participation in the in the Willamette Water Supply Program (WWSP) Preliminary Design in 2013, as joint project being undertaken by the City of Hillsboro and Tualatin Valley Water District (TVWD). The new water supply source is expected to be operational by about 2026 with an approximate total cost of \$1.21 billion to withdraw water from the Willamette River and treat up to 60 million gallons per day (mgd) for drinking water.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0740 ENTERPRISE MANAGEMENT & ADMIN.	<b>PROGRAM MANAGER:</b> DAVID WINSHIP

The City currently has one Commissioner serving on the Willamette River “Water Intake Facility” Commission. The City’s total financial commitment to the WWSS approximately \$65 million, for a total capacity of 5 mgd. Once the project is complete and operational in 2026, by IGA the project name will change to the Willamette Water Supply System (WWSS).

**FY 2020-21 Action Plan:**

**Willamette Water Supply System (WWSS)**

Negotiations on the IGA with TVWD and City of Hillsboro were completed and the City of Beaverton became a financial partner in the WWSS on July 1, 2019. The new permanent 5 mgd water supply purchased in the WWSS and available in 2026 is vital to the City’s future. The City intends to use its 2014 water right permit on the Willamette River as a new secondary source water supply to augment our JWC supply.

**Aquifer Storage and Recovery (ASR)**

The City will continue using ASR as an alternative means to increase water supply capacity by up to 5 mgd during the summer. ASR enables the city to meet short-term peak water demand during the summer, helping to delay the need to purchase water, and delay the need to build capital improvements for additional water treatment and storage. The following summarizes new activities:

**ASR 3a**

A new well, ASR 3A, near the existing ASR3 site, was drilled to provide 1 mgd of non-potable source water for the new purple pipe system (non-potable). A new pump station facility associated with ASR 3a is projected to be operational in 2022.

**ASR 7**

A 2012 JWC test well, (aka ASR 7), at the Cooper Mountain Reservoir site, was transferred by the JWC to City ownership. During 2020-21 the well will upsized to a larger diameter and a pumping station will be built to allow for up to 200 million gallons of aquifer (underground) storage of City drinking water and pumping capacity of 1.3 mgd water for the City’s upper elevations, with the ability to fill existing Cooper Reservoir #1, and future Cooper Reservoir #2 at the same site.

**ASR 5**

Final design for ASR Well No. 5 will be completed by summer 2020, and construction of a new pump station will begin in late summer 2020. The new ASR 5 facility and the City’s existing Sorrento Pump Station (originally built in 1966), will be combined into a new seismically resilient structure. ASR 5 is estimated be operational in 2021. When complete, ASR 5 will provide an additional 2 mgd which will increase the reliability and capacity of the City’s water supply. The project is financed by a \$5 million loan and loan-forgiveness funds from the State of Oregon Infrastructure Finance Agency (IFA) and the US EPA.

<b>Performance Measures:</b>	<b>FY 2017-18 Actual</b>	<b>FY 2018-19 Actual</b>	<b>FY 2019-20 Budgeted/Actual</b>	<b>FY 2020-21 Adopted</b>
<b>Management and Administration</b>				
Total water storage reservoir (non-groundwater storage) capacity within City limits (in million gallons - MGD) and excluding JWC ownership	28.5	28.5	28.5	32.75
Total ASR groundwater in MGD for summer peak use	5	5	5	8.3
Average daily water demand (City water customers - MGD)	7.15	8.23	9.7 / 8.98	9.0
Number of average demand days that can be supplied from in-City water storage reservoirs including ASR wells	12	11	10	12

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0741 WATER SERVICES	<b>DEPARTMENT HEAD:</b> CHAD LYNN

**Program Objectives:**

This program accounts for payments to the Joint Water Commission (JWC) for water purchased for resale and to the Tualatin Valley Water District (TVWD) for contract water meter reading. This program supports the Beaverton Community Vision Plan in these elements:

- *Community Vision Target: Be a National Leader in Sustainable Practices and Programs*
- *Community Vision Goal: Provide High Quality Public Services*

The entire water system, like the city's other utilities, is dependent on cooperation of other regional utilities which demonstrates the relevance of these City Council's priority statement for 2020:

- Implement the Climate Action Plan, including the creation of a Climate Action Advisory Committee.
- Complete policy work on water resources for non-potable uses (purple pipe).
- Develop a policy for use and management of city-owned properties.
- Promote emergency preparedness at the neighborhood level.

There are several actions directed toward these priorities:

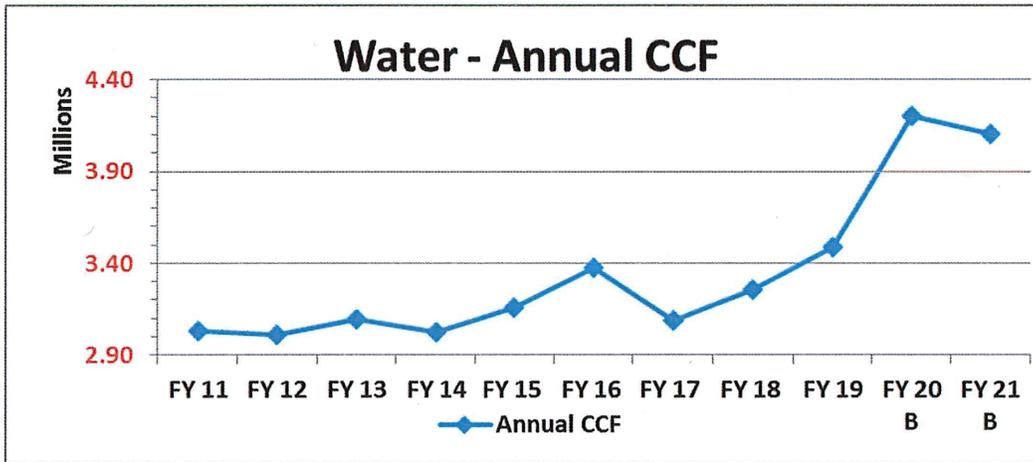
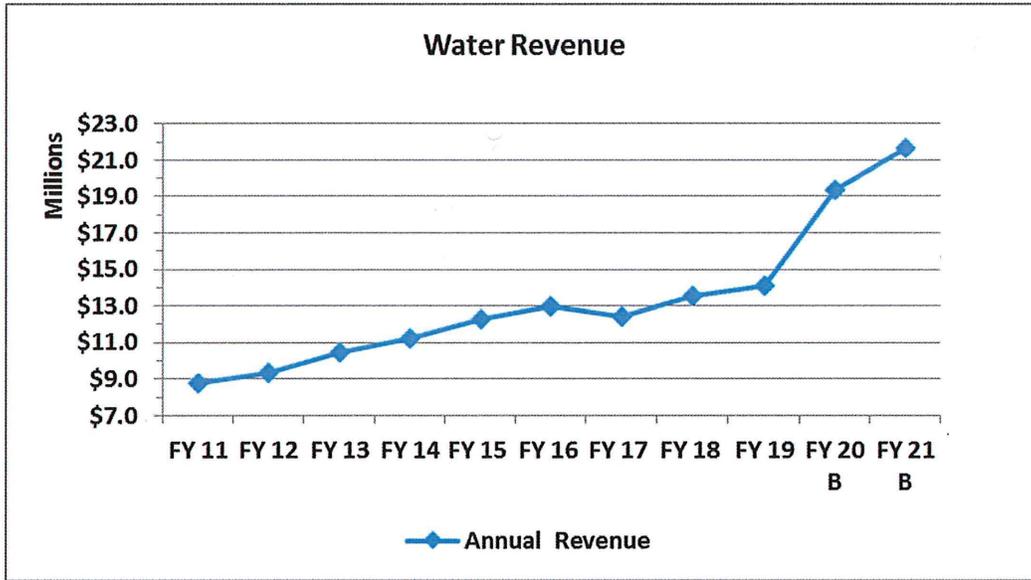
- Continue the withdrawal of service territory from TVWD
- Design series of improvements to connect to the JWC North Transmission Line to improve system resiliency, as approved by the City Council
- Participation in the Willamette Water Supply Project
- Continue work on the non-potable water irrigation project using a purple pipe system

REQUIREMENTS	FY 2017-18 ACTUAL	FY 2018-19 ACTUAL	FY 2019-20 BUDGETED	FY 2020-21 PROPOSED	FY 2020-21 ADOPTED
MATERIALS & SERVICES	\$2,650,692	\$3,023,011	\$6,161,325	\$4,979,977	\$5,316,977
CAPITAL OUTLAY					
TRANSFERS	2,786,239	4,112,705	5,470,787	8,325,930	8,325,930
CONTINGENCY	0	0	9,557,568	6,573,625	6,260,349
<b>TOTAL</b>	<b>\$5,436,931</b>	<b>\$7,135,716</b>	<b>\$21,189,680</b>	<b>\$19,879,532</b>	<b>\$19,903,256</b>

Water sale trends show an increasing trend of consumption and sales since the Great Recession. Residential and commercial vacancies have declined. The values for FY 19-20 and FY 20-21 reflect budgeted values for the year. The increase in FY 19-20 reflects additional consumption by more than 4300 customers formerly served by TVWD. During FY 19-20, these new Beaverton customers are served water through the former TVWD system in an arrangement called "wheeling".

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0741 WATER SERVICES	<b>DEPARTMENT HEAD:</b> CHAD LYNN



Water rates may be adjusted in base charges as well as the rate per 100 cubic feet (CCF). In recent years, the practice has been to adjust both by \$1 in the base and 10 cents in the consumption rate. The budget for FY 2020-21 increases the base rate to \$17/month for a standard residential meter and changed the consumption rate to \$3.97 per CCF. The rate increases are necessary to maintain the required amount of debt service coverage reserve as well as build reserve funds for critical additions to the storage, transmission and distribution system in the coming five years.

CITY OF BEAVERTON, OREGON  
 FISCAL YEAR 2020-21 BUDGET  
 CURRENT LEVEL OF SERVICES

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0741 WATER SERVICES	<b>DEPARTMENT HEAD:</b> CHAD LYNN

The program includes payments to the West Slope Water District for a previous transfer of 66 accounts to the City of Beaverton. This represents 4.36% of annual debt service on water reservoir bond issue and reimbursement for under consumption on the Portland water contract.

The specific financial impact of the withdrawal of more than 4100 customer accounts from TVWD can now be estimated. Wheeling water allows new city customers to be serviced by TVWD, billed by Beaverton and enjoy lower water rates. The estimates include both revenues and expenditures and account for:

- TVWD’s \$1.22 average cost per meter read to read the 4,300 meters in the withdrawal areas 12 times (monthly) per year.
- TVWD’s \$1.682 Wheeling Rate to wheel water through their system.
- JWC’s \$0.42 cost of water production for the water provided to the withdrawal areas.
- Increase in Water Demand (Meter) Revenue – approximately \$1,100,000
- Increase in Water Sales (Consumption) Revenue – approximately \$3,500,000
- Any potential increase in Water Operations costs have been nominal as the “wheeling” charges paid to TVWD require many expenses to be borne by TVWD. The City will begin to incur additional meter and system expenses in the coming years.

Cost/benefit analysis is now underway regarding the construction of various water mains and master meters to serve the withdrawal areas. Direct service by city crews also implies higher operational costs in labor and equipment. The city is not obligated to move to the direct service option, as wheeling may occur on a long-term basis in some areas.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0742 WATER SYSTEM DISTRIBUTION	<b>PROGRAM MANAGER:</b> BRIAN RIGWOOD

**Program Goal:**

Provide high quality potable water in sufficient quantities and at adequate pressures for residential and commercial consumption and fire protection. Perform routine maintenance of our water infrastructure to protect and preserve the public investment. Promote cooperative relationships and agreements with other public agencies which results in increased efficiency by utilizing a larger pool of industry knowledge.

REQUIREMENTS	FY 2017-18 ACTUAL	FY 2018-19 ACTUAL	FY 2019-20 BUDGETED	FY 2020-21 PROPOSED	FY 2020-21 ADOPTED
POSITION	12.75	13.50	13.50	13.50	13.50
PERSONNEL SERVICES	\$996,955	\$1,218,882	\$1,591,302	\$1,565,943	\$1,542,219
MATERIALS & SERVICES	495,732	625,501	924,210	950,691	950,691
CAPITAL OUTLAY	77,649	81,258	702,587	555,080	555,080
TRANSFERS	96,059	83,861	114,284	109,857	109,857
<b>TOTAL</b>	<b>\$1,666,395</b>	<b>\$2,009,502</b>	<b>\$3,332,383</b>	<b>\$3,181,571</b>	<b>\$3,157,847</b>

**Program Objectives:**

The water distribution system program will continue to maintain the potable water system for the City of Beaverton by performing maintenance of the distribution system. This includes replacing some of the aging components of the older fire hydrants, water meters, and water services. Flushing water mains is part of the maintenance program to ensure quality water is delivered to the consumer. Repairing leaks in the distribution system will continue to be a high priority so that drinking water is conserved and will not cause property damage.

Customer service will continue to be a major focus in addressing customer's concerns and needs. This will include turning water off/on, checking for leaks, checking pressure related issues, and addressing other concerns.

**Progress on FY 2019-20 Action Plan:**

The water distribution division accomplished the following in FY 19-20:

- The water crew is using the Cityworks mobile application for work orders and maintenance/repairs. This year was also included the launch of storeroom. This feature creates accurate cost tracking of a dynamic inventory.
- Replacement of failing commercial water meters continued. Radio deployment is keeping pace with new development and is ready for route integration with utility billing.
- The water crew continues to replace hydrants, repair or replace broken water mains along with other components that make up the water system. Customer response to water service requests and timely resolutions are highly successful.
- Water Distribution participated in the completion of the new engineering design manual and implemented the new standards.

**FY 2020-21 Action Plan:**

The water distribution division will continue to maintain the water system by:

- Evaluating the asset inventory to prioritize replacement of critical water infrastructure. FRACTA software is being used to compare against the Cityworks data to determine if there is additional forecasting information available. It is likely that the useful features FRACTA provides can be incorporated into the Cityworks platform to improve it as a single product platform.
- Continue to replace aging infrastructure such as water mains, services, hydrants, valves and meters to maintain a robust and reliable water system that provides uninterrupted service to the customer.
- Perform valve exercising, main flushing and maintenance on components of the water system such as fire hydrants, valves and water mains.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0742 WATER SYSTEM DISTRIBUTION	<b>PROGRAM MANAGER:</b> BRIAN RIGWOOD

- Implementation of the new seismic resiliency requirements into the Water Master Plan. Staff emergency response training and strategies are a priority.
- Continue to add and develop operational staff that are capable of handling the operational complexities that are typical in a water system that is experiencing rapid growth.

<b>Performance Measures:</b>	<b>FY 2017-18 Actual</b>	<b>FY 2018-19 Actual</b>	<b>FY 2019-20 Budgeted/Revised</b>	<b>FY 2020-21 Adopted</b>
Water Hydrant Replacement Program	20	7	25 / 25	25
Installing Dead End Blow Offs	0	0	0	0
Customer/Water Service Requests	6,500	6,700	8,000 / 7,600	7,700
Water Leak Repairs	45	54	60 / 18	40
Fire Hydrant Maintenance	2,490	2,550	2,575 / 2,520	2,520
Total Water Meters in Distribution System	18,300	22,456	22,756 / 22,714	22,845
Water Meter Replacement Program	680	600	900 / 650	700

**Performance Outcomes and Program Trends:**

Overall, the installation of blow offs has reached a point where most of the system's dead end lines can be flushed. Flushing the system helps to maintain adequate chlorine levels and disinfection while reducing the possible formation of harmful disinfection byproducts. Attention to flushing programs has increased in addition to the collection of water quality parameters to control water age.

Leak detection in the water distribution system is an important measure of the system's integrity and reliability. Consequently, leak identification and repair is a priority activity. The leak detection program identifies water leakages for repair and reduces unaccounted water loss. Our major leak detection equipment has recently been updated and we are researching some advanced techniques that may be deployed if the technology proves to be reliable.

Fire hydrant replacement, operation and maintenance are critical to ensure that the hydrants in the system are in good operable condition and are available for fire suppression. Hydrants in the system are also valuable and necessary points for flushing waterlines after main repair. Standardization of hydrant type has helped improve maintenance procedures and reduce required parts inventory.

Replacement of old malfunctioning water meters is important to accurately measure water consumption and reduce unaccounted water loss. When feasible staff utilizes technology to help with efficiency and transparency for improved customer service/satisfaction. Additionally, staff is replacing the old untestable meters that cannot be calibrated along with any meter that is not capable of data sharing. Nine large meters were replaced with remote radio functionality.

The city continues to take over service responsibilities from selected areas within the city limits previously served by TVWD. Responsibilities include meters, customer service calls and residential notice for any change in service issues. City staff offered efficiency solutions to the TVWD meter reading staff and awaits their response.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0743 WATER SYSTEM QUALITY	<b>PROGRAM MANAGER:</b> BRIAN RIGWOOD

**Program Goal:**

To provide a reliable supply of safe drinking water that exceeds all standards at a reasonable cost. To operate, monitor and maintain the city's water supply using efficient, environmentally sound solutions that benefit present and future residents of the City of Beaverton.

REQUIREMENTS	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2020-21
POSITION	ACTUAL	ACTUAL	BUDGETED	PROPOSED	ADOPTED
POSITION	3.50	5.50	5.50	6.50	6.50
PERSONNEL SERVICES	\$475,256	\$643,288	\$752,429	\$873,930	\$873,930
MATERIALS & SERVICES	489,912	636,698	812,182	865,967	865,967
CAPITAL OUTLAY	63,776	184,162	141,250	143,500	143,500
TRANSFERS	530,281	637,339	568,268	631,118	631,118
<b>TOTAL</b>	<b>\$1,559,225</b>	<b>\$2,101,487</b>	<b>\$2,274,129</b>	<b>\$2,514,515</b>	<b>\$2,514,515</b>

**Program Objectives:**

This program is responsible for ensuring public health protection by providing a safe uninterrupted supply of drinking water to the residents of the City of Beaverton. This program performs all required water quality testing and monitoring for reporting to EPA and/or its primacy agency. Additionally, this program is responsible for the operation and maintenance of water supply infrastructure, such as storage reservoirs, groundwater wells, pumping stations, fluoridation facilities, control valves, pressure reducing stations, large transmission lines and water system telemetry control.

Water quality testing remains one of the highest priorities of the city's Water Division to provide outstanding potable drinking water. Adequate quantity provides operating pressure, fire flow and emergency storage to maintain compliance with the standards of the Oregon Health Authority (OHA) and the Federal Environmental Protection Agency (EPA).

**Progress on FY 2019-20 Action Plan:**

The Water Quality division accomplished all of the following during FY 19-20:

- The city met or exceeded all federal and state mandated drinking water standards.
- Inspected all pressure reducing valves (PRVs) and rebuilt 7 PRVs this year.
- Maintained the ASR wells, pump stations, reservoirs and fluoride stations.
- Migration to cellular Supervisory Control and Data Acquisition (SCADA) control continued.
- The water quality team continues to monitor iron and manganese levels in the source with on-line surrogate monitoring.

**FY 2020-21 Action Plan:**

The Water Quality division will accomplish all of the following during FY 20-21:

- Meet the Federal and State mandated water quality monitoring and sampling.
- Propose corrosion control treatment to OHA for ASR entry points.
- Inspect all pressure relief valves (PRVs) and rebuild approximately 10 PRVs.
- Maintain the ASR wells, pump stations, reservoirs and surface system entry point from JWC. Update aging infrastructure as needed to operate a reliable system.
- Continue cellular SCADA migration to replace unsupported system hardware in line with recommendations from the SCADA master plan.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0743 WATER SYSTEM QUALITY	<b>PROGRAM MANAGER:</b> BRIAN RIGWOOD

**Performance Measures:**

	FY 2017-18 Actual	FY 2018-19 Actual	FY 2019-20 Budgeted/Actual	FY 2020-21 Adopted
<b>Water Quality Testing</b>	1,960	2,082	2,150 / 2,200	2,400
<b>Average # of water samples tested per month</b>	164	174	179 / 180	200
<b>Pump Operation &amp; Maintenance.</b> Operate, inspect, and maintain pumps in four water pumping stations and three Aquifer Storage Recovery (ASR) groundwater wells in various locations throughout the City. Figure shown is for total number of pumps in these facilities.	28	28	28 / 28	29
<b>PRV Maintenance.</b> Inspect each of 161 mainline pressure-reducing valves (PRVs) every 2 months, and rebuild 10-percent per year.	151	157	161 / 178	184
<b>Solar energy production (reservoir site) kWh</b>	550,000	550,000	550,000 / 550,000	550,000

**Performance Outcomes and Program Trends:**

Federal and State mandated drinking water quality regulations will be more stringent over the coming years. New rule implementation will require additional staff analysis to determine how we will meet the compliance standards. It is expected that overall costs for water quality monitoring will continue to grow due to the increased number of drinking water contaminants regulated by the US EPA. Sampling and testing required for the Stage 2 Disinfection Byproduct Rule and the Ground water rule continues for 2020/2021. The corrosion study to determine optimum alkalinity and pH levels at the ASR wells was completed and design is underway.

Continued inspection, maintenance, and replacement of city-owned PRVs are important tasks performed by this program. PRVs separate and control Beaverton's 13 different water pressure zones that result from the topographical differences in the city's water service area. 178 larger mainline PRVs will be inspected and repaired as necessary in FY 20/21.

The 98 city-owned backflow assemblies for municipal buildings and city landscape irrigation systems must be tested annually according to the administrative rules of the Oregon Health Authority. Water quality staff ensure that our certified backflow testers perform and report these tests in addition to monitoring and reporting the required annual testing of all devices in the city that are privately owned.

Construction inspection continues to occupy approximately 1.75 FTE of the water quality staff time. There are multiple major projects either under way or coming in the FY 20/21 that staff will be heavily participating in. Processes and practices to ensure the safety of the live potable water system as these projects are constructed are in place and documented. Staff has started using outside contractors for overflow inspection needs.

Water Quality Staff is performing any additional water quality sampling and information requests as a result of the new withdrawn TVWD service areas. Staff has been working on a streamlined work request process to respond to water inquiries.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 3XXX WATER REPLACEMENT PROJECTS	<b>PROGRAM MANAGER:</b> DAVID WINSHIP

**DRINKING WATER PROGRAM**

For a complete narrative of the budget process for Water Construction Projects, refer to pages 70 - 72.

The Drinking Water Program is funded by: the Water Construction Fund (505) which obtains revenue from Water System Development Charges (SDCs), loans and water revenue bonds and the Water Fund (501) that obtains revenue from water sales, water connection permits, and fees.

The City of Beaverton (City) provides drinking water to approximately 88 percent of its residents. This is approximately 18 percent more than in previous years due to the withdrawal of water service areas previously served by Tualatin Valley Water District (TVWD). An additional 8,000 new residents are expected in the South Cooper Mountain (SCM) area will be served by the City, and an additional 9,000 residents are predicted to be served by the City in next 10 years in the 1200-acre Urban Reserve 6B upon annexation to the City.

**Progress on FY 2019-20 Action Plan:**

**Replacement Projects**

The City currently owns, operates and maintains approximately 286 miles of 2” through 36” diameter waterlines. In 1991, the City identified approximately 162,240 lineal feet of water lines ranging in size from 2 to 24 inches and 2,265 fire hydrants that would require replacement over the estimated following 35 years. To date, the City has replaced approximately 119,748 lineal feet (66 %) of the previously identified waterlines for replacement because they were at the end of useful life.

Significant water renewal and replacement projects budgeted, designed and/or constructed in FY 2019-20 follow. A key area of focus for the City last year was the Nimbus North business area, from Hall Boulevard to the Denney Commerce Center. The water utility infrastructure in this area is in very poor condition, so the City began the first of multi-year phased approach to replace waterlines in the area, and significant coordination with existing businesses was necessary. Additionally, the design of phased improvements to the City’s Sexton Mountain Pump Station was completed, including accommodation for back-up/emergency power generation in the event of loss of primary power.

**CIP No.**

**CIP Project Name**

3106A	Menlo Dr (Allen Blvd to Fairmount Dr) Sidewalk Water Meter Service Relocation
3519A	Canyon Rd Intersection Improvements (MSTIP)
3611	JWC Upgrade Projects
4060	Water System Security Upgrades
4078C	Sexton Mt. Pump Station Upgrade and Emergency Generator, Phase 3, design
4117	Washington Ave Waterline (7th-9th)
4111	Hyland Way
4120	Taralynn Ave (Allen Blvd - EOP) Waterline Replacement
4123	Barlow Ct (1500LF of 6")
4134A	Pressure Reducing Valves – PRV (SW 153 <sup>rd</sup> Ave/TV Hwy
4135	Griffith Dr Water Line Rep (3100 LF, 8")
4144	Spirea and Cherry Hill Dr (400LF 6" and 1400 8")
4152	Chestnut Pl (6" water line)
4169A	Nimbus North - Hall to Denney Commerce Center (System Upgrade) – Phase 1 of 3
6095	Sellwood Subdivision (1,150 LF 6” DIP)

**Joint Water Commission Supply**

The City currently owns a 25 percent share of the Joint Water Commission’s (JWC’ s) water plant capacity, equivalent to 18.75 mgd of water to supply drinking water to city water customers. Beaverton paid approximately \$1.5 million in FY 2019-20 as its proportional ownership share for various JWC projects that replaced and upgraded selected parts of the Water Treatment Plant.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET

<b>FUND:</b> 501 WATER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 3XXX WATER REPLACEMENT PROJECTS	<b>PROGRAM MANAGER:</b> DAVID WINSHIP

**FY 2020-21 Action Plan:**

City staff representing the Engineering and Operations divisions work collaboratively to evaluate and prioritize water replacement projects. Annual updates to the CIP list consider Council priorities, the City’s adopted Water Master Plan (WMP), Cityworks (water asset management), and engineering and field maintenance history. Additionally, staff evaluate whether other pending or scheduled City utility projects, or projects from other jurisdictions/agencies, are planned to occur in the same area where we are proposing work. If we find opportunities where a joint/combined project would save money and/or mitigate traffic impacts compared with multiple smaller projects, the City supports these joint projects (ties back to existing Council Goal #7 – Provide responsive, cost effective service to the community).

Significant water system improvement and replacement projects budgeted for FY 2020-21 follow. A key area of focus for the City this year is finishing construction for the first phase of improvements in the Nimbus North business area, and continued design of subsequent phases. Additionally, the design of phased improvements to the City’s Sexton Mountain Pump Station will continue, accommodating for back-up/emergency power and architectural and seismic upgrades.

<u>CIP No.</u>	<u>CIP Project Name</u>
3321	Westgate Dr/Cedar Hills Blvd. Dawson Wy Intersection Realignment
3611	JWC Upgrade Projects
4078C	Sexton Mt. Pump Station Upgrade and Emergency Generator
4120	Taralynn Ave. Waterline Replacement
4124	Lisa Ln (141st - Bonnie Brae) Waterline Replacement, 1,200LF of 6"
4135	Griffith Dr Water Line Rep (3100 LF, 8" and 12")
4136	22nd St (Dale - Hall) Waterline Replacement, 1,100LF 8"
4169A	Nimbus North - Hall to Denney Commerce Center (System Upgrade) – Phase 1
4169B	Nimbus North - Hall to Denney Commerce Center (System Upgrade) – Phase 2
4169C	Nimbus North - Hall to Denney Commerce Center (System Upgrade) – Phase 3
4185	Washington Ave (5th-7th) Waterline Replacement, 550LF 8"
4188	Chestnut Pl (Oak - Elm) Waterline Replacement, 1,150LF of 8"
4198	SW Wilson Ct (Kimberly - Hart) Waterline Replacement, 750LF 6"
6006	Erickson Trunk Sewer Project
6096	McKay Subdivision (Rollingwood)
8135b	4140 SW Watson Storm Outfall Retrofit
XXX	16599 SW Weir Rd PRV Improvements
XXX	163rd PRV Improvements
XXX	PRV Decommissioning Project

**Scoggins Dam and Hagg Lake**

Since 1973, when the U.S. Bureau of Reclamation (Reclamation), was developing the Tualatin Project (Scoggins Dam, Hagg Lake), the City of Beaverton has been a direct municipal “repayment contractor” to Reclamation for 4,000 acre-feet (1.3 billion gallons) of storage annually. Beaverton has two current contracts with Reclamation dating as far back as 1971. Completion of the Scoggins Dam construction occurred in 1975.

In 2007, Reclamation staff identified that Scoggins Dam was at risk related to a Cascadia Subduction Zone earthquake. Between 2009 and 2010, a Risk Analysis was performed on Scoggins Dam to determine the risk from seismic events with Scoggins Dam. Based on the findings of these risk analyses, a decision was made in 2010 to move into a Corrective Action Study (CAS). Reclamation is currently considering three alternatives to replace the existing dam at a downstream location, and is expected to select preferred alternative in FY 20-21.

**City of Beaverton  
CIP Financial Plan - Water  
FY 2020-21 Adopted**

Fund #	Prog #	CIP #	Project Name	Funding Source						
				Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	WIFIA	Operating: Maint & Replacement	Funding Total
<b>FUND 501 - Water Capital Improvement Projects:</b>										
501	3611	3611	JWC Projects						1,078,505	1,078,505
501	3611		Barney Reservoir						5,500	5,500
<b>Totals - 3611 Joint Water Commission Projects</b>				-	-	-	-	-	<b>1,084,005</b>	<b>1,084,005</b>
501	3701	3321	Westgate Dr/Cedar Hills Blvd.Dawson Wy Intersection Realignment - JIM						30,000	30,000
501	3701	4120	TaraLynn Waterline Replacement						300,000	300,000
501	3701	4124	Lisa Ln (141st - Bonnie Brae) Waterline Replacement, 1,200LF of 6"						300,000	300,000
501	3701	4135	Griffith Dr Waterline Replacement, 3,100LF of 8"&12"						650,000	650,000
501	3701	4136	22nd St (Dale - Hall) Waterline Replacement, 1,100LF 8"						350,000	350,000
501	3701	4185	Washington Ave (5th-7th) Waterline Replacement, 550LF 8"						200,000	200,000
501	3701	4188	Chestnut Pl (Oak - Elm) Waterline Replacement, 1,150LF of 8"						355,000	355,000
501	3701	4198	SW Wilson Ct (Kimberly - Hart) Waterline Replacement, 750LF 6"						250,000	250,000
501	3701	4199	PRV Decommissioning Project						75,000	75,000
501	3701	4200	163rd PRV Improvements						85,000	85,000
501	3701	4201	16599 SW Weir Rd PRV Improvements						60,000	60,000
501	3701	6006	Erickson Trunk Sewer Project						839,000	839,000
501	3701	6096	McKay Subdivision (Rollingwood)						50,000	50,000
501	3701	4169A	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 1 of 3 - 1*						530,000	530,000
501	3701	4169B	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 3 of 3 - 1*						30,000	30,000
501	3701	4169C	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 2 of 3 - 1*						30,000	30,000
501	3701	8135b	4140 SW Watson StormOutfallRetrofit						400,000	400,000
<b>Totals - 3701 Water System Improvements</b>				-	-	-	-	-	<b>4,534,000</b>	<b>4,534,000</b>
<b>TOTALS</b>									<b>5,618,005</b>	<b>5,618,005</b>