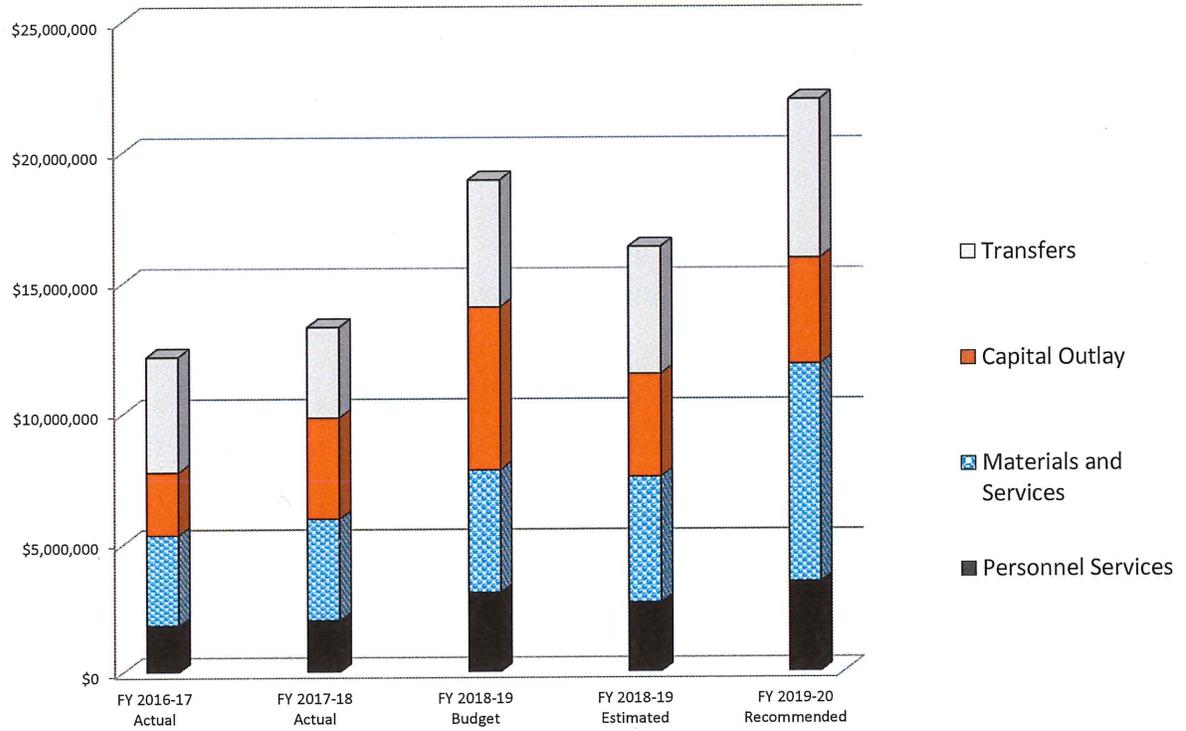




**WATER FUND  
SUMMARY  
RECOMMENDED FY 19-20**



**CITY OF BEAVERTON**

**BUDGET TREND ANALYSIS - FY 2016-17 TO FY 2019-20**

With Explanations on Significant Changes between Budgeted 2018-19 and Recommended 2019-20

Fund:	<b>Water - Summary</b>					% Change Budgeted Vs. Recommended
	Actual FY 2016-17	Actual FY 2017-18	Budget FY 2018-19	Estimated FY 2018-19	Recommended FY 2019-20	
CLASS						
Personnel Services	\$1,830,320	\$2,026,674	\$3,129,059	\$2,721,921	\$3,535,746	13.00%
Materials and Services	3,514,262	3,937,402	4,698,605	4,844,000	8,340,608	77.51%
Capital Outlay	2,404,567	3,874,358	6,238,714	3,938,050	4,047,907	-35.12%
Transfers	4,422,442	3,466,361	4,859,850	4,859,850	6,067,277	24.84%
SUB-TOTAL	\$12,171,591	\$13,304,795	\$18,926,228	\$16,363,821	\$21,991,538	
Contingency			7,342,101		9,410,575	
Contingency - JWC			500,000		500,000	
Reserve			600,000		600,000	
Contingency - Equip.			342,168		398,636	
TOTAL	\$12,171,591	\$13,304,795	\$27,710,497	\$16,363,821	\$32,900,749	
FTE's	20.69	21.69	26.88		27.63	

**Explanation of item(s) that are significant (10% and greater than \$10,000):**

**Personnel services:**

FY 2019-20 reflects a net increase of .75 FTE positions consisting of: .4 FTE reduction of Project Engineer 1, .4 FTE reduction of Engineering Construction inspector, .5 FTE increase of Engineering Technician 2, and 1 FTE of Project Engineer 2 in the Enterprise Management & Admin program; the transfer of .05 FTE Senior Accountant from the General Fund to the Water Fund to more accurately reflect the position's work plan. The Recommended Budget also includes step increases, COLA increases for BPA, SEIU, management averaging 2.87% in total, and a 3% VEBA (Voluntary Employees Beneficiary Association Plan) for management and a 1% increase to the VEBA for SEIU. Also shown are an average 0.63% increase in PERS contributions, medical insurance cost increase of 8% for Kaiser, 1.74% increase in MODA plans and 2% increase for Dental.

**Materials and services:**

FY 2019-20 reflects a \$2.18 million increase in expenditures for water wheeling services and water purchases related to the TVWD withdrawal area (The expense is offset by an increase in revenue); \$650,000 increase in professional services, including \$100k for SDC rate study, \$100k for Federal Safe Drinking Water Act report, & \$100k for water system Hydraulic Modeling & mapping; \$270,000 increase of City Right of Way Fees due to the 4107 water accounts withdrawn from TVWD.

**Capital outlay:**

FY 2019-20 reflects a \$1.5 million reduction to construction expenditures; \$250k reduction to Design & Engineering; \$835k reduction to JWC Capital Expense.

**Transfers:**

FY 2019-20 reflects a \$1 million increase in transfers to the Water Construction Fund to assist with funding water capacity capital projects.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 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 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	20.69	21.69	26.88	27.63	0.00
PERSONNEL SERVICES	\$1,830,320	\$2,026,674	\$3,129,059	\$3,535,746	\$0
MATERIALS & SERVICES	3,514,262	3,937,402	4,698,605	8,340,608	0
CAPITAL OUTLAY	2,404,567	3,874,358	6,238,714	4,047,907	0
TRANSFERS	4,422,442	3,466,361	4,859,850	6,067,277	0
CONTINGENCY	0	0	8,784,269	10,909,211	0
<b>TOTAL</b>	<b>\$12,171,591</b>	<b>\$13,304,795</b>	<b>\$27,710,497</b>	<b>\$32,900,749</b>	<b>\$0</b>

Funding Sources:	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2019-20
Beginning Working Capital	\$11,626,817	\$12,236,827	\$13,147,277	\$12,877,835	\$0
Intergovernmental Revenue	294	101,872	88,820	80,000	0
Permits & Fees	10,134	51,989	45,000	20,000	0
Water Service Fees	12,397,485	13,693,039	14,064,000	19,359,314	0
Miscellaneous Revenues	373,688	368,348	365,400	563,600	0

Water Projects:	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2019-20
3611 Joint Water Commission Project	\$805,574	\$1,047,618	\$2,345,250	\$1,510,000	\$0
3700 Maint. & Replacement Program	32,204	30,300	100,000	0	0
3701 Water System Improvements	1,392,863	2,655,015	3,527,414	1,737,500	0

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 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 supply of quality drinking water, water for firefighting, adequate funding, perpetual replacement of existing public infrastructure and extra-capacity facilities necessary to serve 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 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	2.80	3.80	5.80	6.50	0.00
PERSONNEL SERVICES	\$281,138	\$415,603	\$775,982	\$1,001,634	\$0
MATERIALS & SERVICES	134,810	148,238	386,161	974,250	0
CAPITAL OUTLAY					
TRANSFERS	3,179	51,701	24,836	31,186	0
<b>TOTAL</b>	<b>\$419,127</b>	<b>\$615,542</b>	<b>\$1,186,979</b>	<b>\$2,007,070</b>	<b>\$0</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 and Creekside District areas, 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 2018-19 Action Plan:**

**New Water Supply Source Update**

The Beaverton City Council authorized an expenditure of \$100,000 to fund participation in the Willamette Water Supply Program (WWSP) Preliminary Design in 2013, a 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 \$1.2 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 2019-20 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 member serving on the Willamette River “Water Intake Facility” Commission. The City’s total financial commitment to the WWSP is estimated at approximately \$61 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 2019-20 Action Plan:**

**Willamette Water Supply Program (WWSP)**

The City completed negotiations on the IGA with TVWD and City of Hillsboro to become a financial partner in the WWSP. A new permanent 5 mgd water supply is vital to the City’s future, and 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. Two new ASR wells are scheduled to be drilled in FY19-20, and the following summarizes new activities:

**ASR3a**

A new well at the existing ASR3 site will be drilled to provide non-potable source water for the new purple pipe system (non-potable). A new pump station facility is scheduled to be completed the following year, and the new well is expected to be operational in 2021.

**ASR7a**

A new well at the Cooper Mountain Reservoir site will be drilled to provide additional 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 start in spring 2019, and construction of a new pump station will begin in 2020. The new ASR5 facility and the City’s existing Sorrento Pump Station (originally built in 1966), will be combined into a new seismically resilient structure. ASR5 is estimated be operational in 2021. When complete, ASR5 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 2016-17 Actual</b>	<b>FY 2017-18 Actual</b>	<b>FY 2018-19 Budgeted/Actual</b>	<b>FY 2019-20 Proposed</b>
<b>Management and Administration</b>				
Total water storage reservoir (non-groundwater storage) capacity within City limits (in million gallons - MGD)	28.5	28.5	28.5	28.5
Total ASR groundwater in MGD for summer peak use	5	5	5	5
Average daily water demand (City water customers - MGD)	6.89	7.15	7.3	9.7
Number of average demand days that can be supplied from in-City water storage reservoirs including ASR wells	13	12	11	10

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 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> DAVID DONALDSON

**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 2019:

- Build stronger relationships among local special districts.
- Prepare a long-range budget plan or philosophy to address foreseeable major expenses.

There are several actions directed toward these priorities:

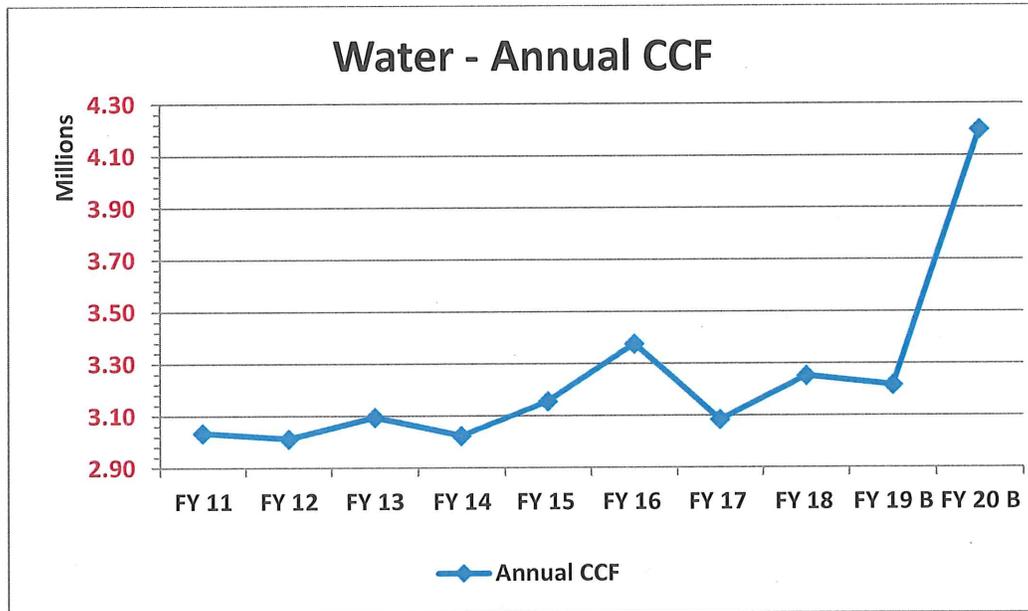
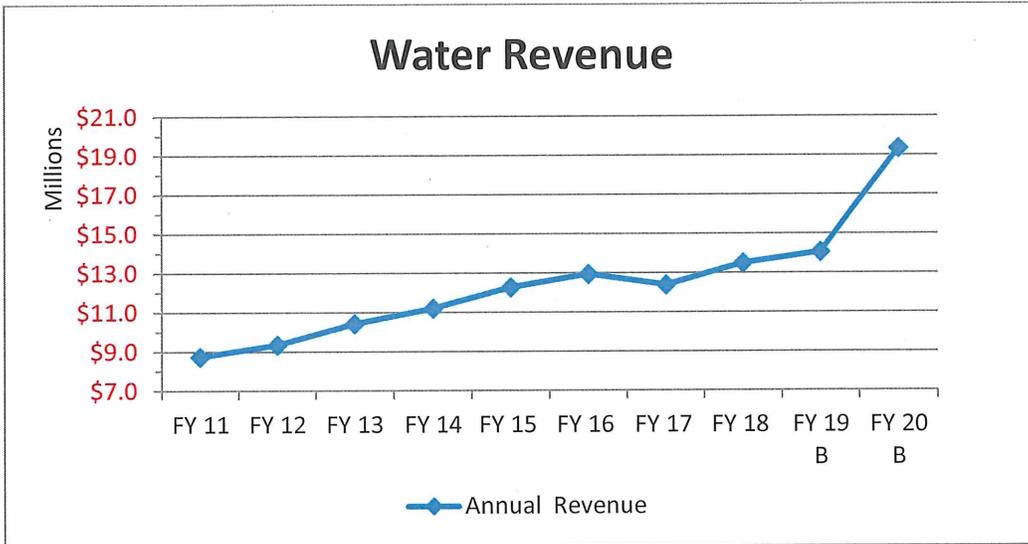
- Continue the withdrawal of service territory from TVWD
- Design series of improvements to connect to the JWC North Transmission Line to improve system resiliency, as approved by the City Council
- Join the Willamette Water Supply Project
- Complete the non-potable water irrigation project using a purple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

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
MATERIALS & SERVICES	\$2,298,429	\$2,650,692	\$2,786,469	\$5,534,451	\$0
CAPITAL OUTLAY					
TRANSFERS	3,929,464	2,786,239	4,123,692	5,350,787	0
CONTINGENCY	0	0	8,784,269	10,909,211	0
<b>TOTAL</b>	<b>\$6,227,893</b>	<b>\$5,436,931</b>	<b>\$15,694,430</b>	<b>\$21,794,449</b>	<b>\$0</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 18-19 and FY 19-20 reflect budgeted values for the year. The increase in FY 19-20 reflects additional consumption by more than 4100 customers formerly served by TVWD. During FY 18-19, these new Beaverton customers are served water through the former TVWD system in an arrangement called "wheeling". Another 260 accounts will be withdrawn from TVWD effective July 1, 2019 and "wheeled" beginning in fall 2019.

CITY OF BEAVERTON, OREGON  
 FISCAL YEAR 2019-20 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> DAVID DONALDSON



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¢ in the consumption rate. The budget for FY 2019-20 increases the base rate to \$16/month for a standard residential meter and changed the consumption rate to \$3.27 per CCF. Additional rate increases may occur for FY 19-20 in order to build reserves and demonstrate capacity to support a new Water Revenue Bond late in the fiscal year. 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 2019-20 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> DAVID DONALDSON

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 \$1.26 average cost per meter read to read the 4,107 meters in the withdrawal areas 12 times (monthly) per year.
- TVWD’s \$1.722 Wheeling Rate to wheel water through their system.
- JWC’s \$0.40 cost of water production for the water provided to the withdrawal areas.
- Increase in Water Demand (Meter) Revenue – approximately \$ 1,324,776
- Increase in Water Sales (Consumption) Revenue – approximately \$3,077,258
- 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 2019-20 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 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	12.75	12.75	13.50	13.50	0.00
PERSONNEL SERVICES	\$966,719	\$996,955	\$1,464,225	\$1,577,496	\$0
MATERIALS & SERVICES	462,630	495,732	666,595	839,210	0
CAPITAL OUTLAY	133,926	77,649	81,400	659,157	0
TRANSFERS	58,563	96,059	84,166	114,284	0
<b>TOTAL</b>	<b>\$1,621,838</b>	<b>\$1,666,395</b>	<b>\$2,296,386</b>	<b>\$3,190,147</b>	<b>\$0</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 2018-19 Action Plan:**

The water distribution division accomplished the following in FY 18-19:

- The water crew worked with the CityWorks analyst to launch a mobile application for work orders.
- 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 actively participated in the new engineering design manual and are taking the lead in implementation of the new standards.

**FY 2019-20 Action Plan:**

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

- Continuing to review and evaluate the asset inventory to prioritize replacement of critical water infrastructure. This is important to accurately assess the substantial assets accepted from the Tualatin Valley Water District (TVWD) withdrawal process.
- 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.
- Implementation of the Water Master Plan, optimizing meter reading and increasing emergency response training.
- Staff up, train and develop system operators that are capable of handling any and all issues that arise with a dynamic system that is experiencing rapid growth along with increased operational complexity.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 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

Performance Measures:	FY 2016-17 Actual	FY 2017-18 Actual	FY 2018-19 Budgeted/Revised	FY 2019-20 Proposed
Water Hydrant Replacement Program	28	20	25 / 7	25
Installing Dead End Blow Offs	2	0	2 / 0	0
Customer/Water Service Requests	6,000	6,500	9,250 / 6,700	8,000
Water Leak Repairs	50	45	65 / 54	60
Fire Hydrant Maintenance	2,513	2,490	2,575 / 2,550	2,575
Total Water Meters in Distribution System	18,267	18,300	19,800 / 22,456	22,756
Water Meter Replacement Program	800	680	1,000 / 600	900

**Performance Outcomes and Program Trends:**

Installing blow offs on dead end water lines is necessary to control the age of water in the system. 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. Moving forward attention to flushing programs and increased collection of water quality parameters will help develop an effective control of 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 protection purposes. 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 necessary parts inventory. It is anticipated that all two port hydrants will be upgraded to current standards this fiscal year.

Replacement of old malfunctioning water meters is important to accurately measure water consumed by customers and to maintain the Water Fund's revenue stream 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, meters that are beyond calibration and any meter that is not capable of data sharing. Eleven large meters were replaced this year. The new meters are remote capable with radio testing underway. QA/QC testing is complete and the technology is ready to enhance remote information gathering and streamline the process time throughout the organization.

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 2019-20 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 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	3.50	3.50	5.50	5.50	0.00
PERSONNEL SERVICES	\$435,673	\$475,256	\$694,403	\$748,139	\$0
MATERIALS & SERVICES	476,233	489,912	708,629	801,482	0
CAPITAL OUTLAY	40,000	63,776	184,650	141,250	0
TRANSFERS	428,885	530,281	624,384	568,268	0
<b>TOTAL</b>	<b>\$1,380,791</b>	<b>\$1,559,225</b>	<b>\$2,212,066</b>	<b>\$2,259,139</b>	<b>\$0</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 2018-19 Action Plan:**

The Water Quality division accomplished all of the following during FY 18-19:

- The city met or exceeded all federal and state mandated drinking water standards.
- Inspected all pressure reducing valves (PRVs) and rebuilt 5 PRVs this year.
- Maintained the ASR wells, pump stations, reservoirs and fluoride stations.
- Migration to cellular Supervisory Control and Data Acquisition (SCADA) control continued.
- Multiagency water quality team developed a viable course of action to deal with iron and manganese levels in the resource leaving the JWC treatment plant. Testing continues and on-line surrogate monitoring is installed.

**FY 2019-20 Action Plan:**

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

- Meet the Federal and State mandated water quality monitoring and sampling.
- Propose optimum process to OHA to ensure optimized corrosion control at ASR entry points.
- Inspect all pressure relief valves (PRVs) and rebuild approximately 10 PRVs.
- Maintain the ASR wells, pump stations, reservoirs, and the fluoride stations.
- Continue cellular SCADA migration to replace unsupported system hardware.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 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 2016-17 Actual	FY 2017-18 Actual	FY 2018-19 Budgeted/Actual	FY 2019-20 Proposed
<b>Water Quality Testing</b>	1,280	1,960	2,000 / 2,082	2,150
<b>Average # of water samples tested per month</b>	90	164	165 / 174	179
<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.	29	28	28 / 28	28
<b>PRV Maintenance.</b> Inspect each of 161 mainline pressure-reducing valves (PRVs) every 2 months, and rebuild 10-percent per year.	151	151	157 / 157	161
<b>Solar energy production (reservoir site) kWh</b>	546,752	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 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 2019/2020. Additional testing for UCMR4 is required to assist EPA in assessing the next regulated monitoring group off of the contaminant candidate list. The corrosion study to determine optimum alkalinity and pH levels at the ASR wells was completed. The next step will be to present the findings to OHA and agree on an engineered treatment solution for design.

Continued inspection, maintenance, and replacement of city-owned PRVs are important tasks performed by this program. PRVs separate and control Beaverton's 11 different water pressure zones that result from the topographical differences in the city's water service area. 161 larger mainline PRVs will be inspected and repaired as necessary in FY 19/20.

The 130 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 1.5 FTE of the water quality staff time. There are 12 major projects coming in the FY 19/20 in which staff will be heavily participating. Processes and practices to ensure the safety of the live potable water system as these projects are constructed are in place and documented. Streamlining of disinfection has been beneficial to contractor efficiency in project completion.

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.

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 501 WATER FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 BEGINNING WORKING CAPITAL

301 BEGINNING WORKING CAPITAL

	-11,626,817		-12,236,827		-13,147,277		-13,147,277	-13,147,277	-12,856,211		-12,877,835			
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TOTAL CLASS: 05 BEGINNING WORKING CAPITAL

	-11,626,817		-12,236,827		-13,147,277		-13,147,277	-13,147,277	-12,856,211		-12,877,835			
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CLASS: 15 INTERGOVERNMENTAL REVENUE

329 OTHER INTERGOVERNMENTAL REV

	-294		-101,872		-88,820			-88,820			-80,000			
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TOTAL CLASS: 15 INTERGOVERNMENTAL REVENUE

	-294		-101,872		-88,820			-88,820			-80,000			
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CLASS: 20 PERMITS & FEES

355 WATER METER INSTALLATION FEES

	-10,134		-51,989		-45,000		-26,031	-25,000	-20,000		-20,000			
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TOTAL CLASS: 20 PERMITS & FEES

	-10,134		-51,989		-45,000		-26,031	-25,000	-20,000		-20,000			
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CLASS: 25 SERVICE FEES

361 WATER SALES

	-9,126,336		-10,127,493		-10,200,000		-8,435,825	-11,218,780	-13,940,200		-14,037,532			
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362 UNMETERED WATER SALES

	-3,576		-29,914		-14,000		-19,184	-20,000	-15,000		-15,000			
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364 CUSTOMER SERV CHARGES

	-25,420		-27,385		-25,000		-18,940	-23,750	-25,000		-25,000			
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366 DEMAND CHARGE

	-3,305,627		-3,579,324		-3,900,000		-3,057,420	-4,161,800	-5,366,765		-5,366,782			
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369 UTILITY SALES ALLOWANCES

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**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 501 WATER FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	63,474		71,077		75,000		64,071	75,000	75,000		85,000			
TOTAL CLASS: 25 SERVICE FEES														
	-12,397,485		-13,693,039		-14,064,000		-11,467,298	-15,349,330	-19,271,965		-19,359,314			
CLASS: 35 MISCELLANEOUS REVENUES														
382	SALE OF CITY OR BURA PROPERTY													
	-29,206		-12,825				-3,368	-3,368						
384	INVESTMENT INTEREST EARNINGS													
	-148,244		-206,543		-235,400		-189,882	-275,600	-313,600		-313,600			
389	MISCELLANEOUS REVENUES													
	-51,002		-34,547		-30,000		-26,806	-30,000	-30,000		-30,000			
394	MISC INTEREST EARNINGS													
	-18,108		-19,318		-40,000		-44,629	-20,000	-20,000		-20,000			
398	SRVS PROVIDED TO OTHER FUNDS													
	-121,745		-91,179		-60,000		-239,375	-300,000	-200,000		-200,000			
399	REIMBURSEMENTS - OTHER													
	-173		-280											
753	ENERGY EFFICIENCY REBATES													
							-4,096							
757	MED/LIFE INS PREM REFUND DISTRIBUTION													
	-5,210		-3,656				-2,261	-2,261						
TOTAL CLASS: 35 MISCELLANEOUS REVENUES														
	-373,688		-368,348		-365,400		-510,417	-631,229	-563,600		-563,600			
TOTAL DEPARTMENT: 03 REVENUE														
	-24,408,418		-26,452,075		-27,710,497		-25,151,023	-29,241,656	-32,711,776		-32,900,749			

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 501 WATER FUND

DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

046	PRINCIPAL ENGINEER													
	52,867	.40	53,062	.40	55,197	.40	42,838	55,074	58,509	.40	57,940	.40		
068	ENGINEERING ASSOCIATE													
					37,453	1.00		26,536	83,970	1.00	83,970	1.00		
084	PROJECT ENGINEER 1													
	110,439	1.50	141,555	1.50	235,593	2.50	175,021	234,983	216,168	2.10	214,071	2.10		
123	ENGINEERING TECH 2													
											35,314	.50		
124	ENGINEERING CONST INSPECTOR													
		.40	24,829	.40	26,813	.40	19,838	27,884						
175	PROJECT ENGINEER 2													
			30,591	1.00	114,248	1.00	83,518	111,888	123,344	1.00	214,973	2.00		
221	SUPPORT SPECIALIST 2													
	22,009	.50	23,721	.50	25,646	.50	18,908	25,537	28,021	.50	28,021	.50		
299	PAYROLL TAXES AND FRINGES													
	95,823		141,845		281,032		164,785	233,863	279,130		367,345			

TOTAL CLASS: 05 PERSONNEL SERVICES

	281,138	2.80	415,603	3.80	775,982	5.80	504,908	715,765	789,142	5.00	1,001,634	6.50		
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CLASS: 10 MATERIALS & SERVICES

303	OFFICE FURNITURE & EQUIPMENT													
			1,616		5,600		879	3,500	600		3,100			
305	SPECIAL DEPARTMENT SUPPLIES													
	57		70		400		4	200	400		400			
307	MEMBERSHIP FEES													
	46,968		48,390		52,150		54,395	54,395	60,005		60,925			
314	OUTSIDE REPRODUCTION EXPENSES													
	955				1,000				1,000		1,000			
317	COMPUTER EQUIPMENT													

**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 501 WATER FUND

DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
			5,294		10,535		7,517	3,150			1,500			
318	COMPUTER SOFTWARE													
			4,000		2,000				27,000		30,000			
321	TRAVEL, TRAINING & SUBSISTENCE													
	7,124		10,785		14,600		4,437	7,000	23,425		25,825			
328	MEALS & RELATED EXPENSE													
	602		608		1,500		932	800	1,500		1,500			
341	COMMUNICATIONS EXPENSE													
					250									
361	UNIFORMS & SPECIAL CLOTHING													
			597		600		446	600	750		750			
444	ASR OPERATING & MONITORING EXP													
					195,978		195,977	195,978	306,550		306,550			
445	NON-CIP ENGINEERING EXPENSE													
											50,000			
461	SPECIAL EXPENSE													
	15,941		13,341		34,600		3,300	5,000	30,900		30,900			
511	PROFESSIONAL SERVICES													
	63,163		63,537		66,948		63,799	66,948	411,800		461,800			
TOTAL CLASS: 10 MATERIALS & SERVICES														
	134,810		148,238		386,161		331,686	337,571	863,930		974,250			
CLASS: 25 TRANSFERS														
816	TRSFERS TO REPROGRAPHICS FUND													
	2,540		3,709		3,327		1,030	3,327	1,749		1,651			
817	TRSFERS TO GARAGE FUND													
	639				857			857						
835	TRSFER TO GF, BVTN BLDG OPERATIONS													
			20,592		10,296		8,580	10,296	16,701		16,701			
836	TRSFER TO GF, BVTN BLDG DEBT SVC													

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 501 WATER FUND

DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
			27,400		10,356		8,630	10,356	12,834		12,834			
TOTAL CLASS: 25 TRANSFERS														
	3,179		51,701		24,836		18,240	24,836	31,284		31,186			
TOTAL DEPARTMENT: 72 CAPITAL DEVELOPMNT-ENGINEERING														
	419,127	2.80	615,542	3.80	1,186,979	5.80	854,834	1,078,172	1,684,356	5.00	2,007,070	6.50		

**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 501 WATER FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

049	PROG COORDINATOR -PUBLIC WORKS		17,568	1.00	78,922	1.00	56,173	74,210	99,826	1.00	88,163	1.00		
057	PUBLIC WORKS SUPERVISOR		66,961	1.00	108,281	2.00	179,490	2.00	142,587	178,197	211,046	2.00	192,562	2.00
112	PUBLIC WORKS MANAGER 3		108,886	1.00	111,346	1.00	114,128	1.00	89,776	116,160	123,330	1.00	122,139	1.00
133	WATER CUSTOMER SERVICE TECH		57,386	1.00	62,949	1.00	67,709	1.00	60,197	70,110	76,331	1.00	66,736	1.00
162	WATER DISTRIBUTION LEAD		85,586	2.00	154,431	2.00	162,803	2.00	131,311	161,839	180,997	2.00	171,043	2.00
173	WATER DISTRIBUTION TECHNICIAN		298,262	6.00	194,214	6.00	328,100	6.00	142,469	191,045	380,307	6.00	338,999	6.00
178	WATER QUALITY TECHNICIAN		148,211	2.00	120,613		51,680	1.00	8,527	54,502	54,502	1.00	54,502	1.00
188	INVENTORY CONTROL TECHNICIAN		13,757	.25	15,822	.25								
209	WATER DISTRIBUTION EQUIP OPER		144,706	3.00	166,563	3.00	291,860	5.00	264,718	324,305	370,112	5.00	336,746	5.00
299	PAYROLL TAXES AND FRINGES		478,637		520,424		883,936		543,807	696,826	945,952		954,745	

TOTAL CLASS: 05 PERSONNEL SERVICES

	1,402,392	16.25	1,472,211	16.25	2,158,628	19.00	1,431,038	1,821,219	2,442,403	19.00	2,325,635	19.00		
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CLASS: 10 MATERIALS & SERVICES

301	OFFICE EXPENSE		65	304	900		893	1,058	1,300		1,300			
303	OFFICE FURNITURE & EQUIPMENT		1,232	1,488	1,400		355	950	2,050		2,050			
304	DEPARTMENT EQUIPMENT EXPENSE													

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 501 WATER FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	36,345		24,243		57,500		35,096	55,000	72,000		72,000			
305	SPECIAL DEPARTMENT SUPPLIES													
	7,884		5,983		10,800		8,939	10,800	11,800		11,800			
307	MEMBERSHIP FEES													
	11,551		11,949		14,905		13,941	14,300	15,530		16,981			
308	PERIODICALS & SUBSCRIPTIONS													
	389		200		500		532	505	870		870			
316	ADVERTISING, RECORDING & FILING													
			2,118											
317	COMPUTER EQUIPMENT													
	500						728	728	1,131		1,131			
318	COMPUTER SOFTWARE													
					13,500		8,000	8,000						
321	TRAVEL, TRAINING & SUBSISTENCE													
	8,854		10,021		13,380		12,373	13,300	31,325		31,325			
328	MEALS & RELATED EXPENSE													
	153													
341	COMMUNICATIONS EXPENSE													
	31,577		33,902		45,000		28,892	44,000	46,000		46,000			
351	UTILITIES EXPENSE													
	245,004		261,611		290,000		209,402	270,000	290,000		290,000			
361	UNIFORMS & SPECIAL CLOTHING													
	10,545		10,402		13,800		9,100	13,300	21,200		21,200			
371	EQUIPMENT OPER & MAINT EXPENSE													
									12,150		12,150			
381	BUILDING EXPENSE													
	9		6,429		20,000		403	15,000	20,000		20,000			
409	WATER PURCHASES FOR RESALE													
	1,288,362		1,383,335		1,627,525		771,866	1,499,382	2,475,491		1,684,550			
410	BARNEY RESERVOIR OPERATIONS													
	88,608		95,900		164,609		60,590	100,000	150,051		150,051			

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**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 501 WATER FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
413	SERVICE INSTALLATIONS													
	2,984		2,341		3,300		3,276	3,300	10,500		10,500			
417	WILLAMETTE INTAKE FACILITIES OPER													
					16,000		2,642	10,000	10,000		13,000			
418	JWC OPERATING EXP - OTHER													
	17,585		79,811		42,250		13,748	22,752	45,000		45,000			
419	CHEMICAL & LABORATORY SUPPLIES													
	41,298		33,025		66,800		60,932	60,000	78,100		78,100			
425	DUMPING EXPENSES													
	1,531		1,729		3,000		2,995	3,200	5,000		5,000			
439	WATER WHEELING SERVICES - TVWD													
							14,531	383,000	1,671,622		1,671,621			
441	LINE MAINTENANCE													
	189,296		185,760		235,475		218,110	224,000	218,000		218,000			
446	METER MAINTENANCE													
	159,795		225,024		249,126		245,026	249,000	278,062		278,062			
447	WATER PURCHASES - WHEELING													
											510,000			
448	MANHOLE / PRV VALVE ADJUSTMENTS													
	54,522		49,000		146,450		147,552	147,552	150,000		150,000			
461	SPECIAL EXPENSE													
	217		349		1,200		217	900	2,523		2,523			
497	DEBT ISSUANCE COST													
			135,399		850		850	850			150,850			
498	UNDERWRITERS DISCOUNT, BOND													
			9,816								20,000			
511	PROFESSIONAL SERVICES													
	327,811		344,899		370,020		338,354	359,800	579,500		629,500			
512	CITY RIGHT OF WAY FEES													
	619,246		641,861		652,035		543,360	732,409	919,379		919,379			
525	PMTS TO OTHER GOVERNMENT AGENCIES													

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 501 WATER FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	50,924		53,778		56,400		55,891	55,891	60,000		60,000			
536	MAINTENANCE CONTRACTS													
	23,102		23,742		33,500		27,712	31,000	49,500		49,500			
551	RENTS AND LEASES													
	17,903		1,917		11,468		676	2,400	2,700		2,700			
TOTAL CLASS: 10 MATERIALS & SERVICES														
	3,237,292		3,636,336		4,161,693		2,836,982	4,332,377	7,230,784		7,175,143			

CLASS: 15 CAPITAL OUTLAY

641	VEHICLES													
	133,926		747		168,050		167,420	168,050	473,873		473,873			
670	ROLLING STOCK													
									229,934		229,934			
671	EQUIPMENT													
	40,000		140,678		98,000		98,000	98,000	96,600		96,600			
TOTAL CLASS: 15 CAPITAL OUTLAY														
	173,926		141,425		266,050		265,420	266,050	800,407		800,407			

CLASS: 25 TRANSFERS

801	TRSFR TO GENERAL FD - OVERHEAD													
	217,037		318,316		360,830		300,692	360,830	448,971		448,971			
802	TRSFR TO GENERAL FD-ACCOUNTING													
	49,312		28,616		62,355		51,963	62,355	100,875		100,875			
803	TRSFR TO GENERAL FD-LANDSCAPE													
	69,355		80,215		83,669		69,724	83,669	88,269		88,269			
804	TRSFR - OPERATIONS ADMIN													
	197,088		249,697		288,261		240,218	288,261	282,373		261,881			
805	TRSFR TO G/F BLDG MAINT													
	20,687		18,448		20,886		17,405	20,886	20,972		20,972			
808	TRSFRS TO GIS PGRM (TO ISD FUND 2018-19)													

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 501 WATER FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	101,395		165,166		179,079		149,233	179,079	177,421		177,216			
817	TRSFERS TO GARAGE FUND													
	98,923		112,814		136,655		66,885	136,655	134,214		134,214			
818	TRSFERS TO ISD-ALLOCATED													
	193,014		232,089		286,721		238,934	286,721	332,587		329,957			
819	TRSFERS TO INSURANCE FUND													
	198,941		228,792		228,792		190,660	228,792	285,990		285,990			
832	TRSFERS TO WATER DEBT SVC FUND													
	1,495,160		748,426		2,184,994		1,548,671	2,184,994	2,184,994		2,184,994			
833	TRSFERS TO WATER CONSTRUCT FUND													
	1,776,000		1,230,000		1,000,000			1,000,000	2,000,000		2,000,000			
215	TOTAL CLASS: 25 TRANSFERS													
	4,416,912		3,412,579		4,832,242		2,874,385	4,832,242	6,056,666		6,033,339			
	CLASS: 30 FUND BAL/CONTINGENCY/RESERVES													
987	RESERVE - JWC EMERGNCY EQUIPMT													
					500,000				500,000		500,000			
991	CONTINGENCY - UNRESERVED													
					7,342,101				7,078,746		9,410,575			
995	RESERVE - RATE STABILIZATION													
					600,000				600,000		600,000			
996	RESERVE - EQUIPMENT REPLACEMT													
					342,168				398,636		398,636			
	TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES													
					8,784,269				8,577,382		10,909,211			
	TOTAL DEPARTMENT: 85 PUBLIC WORKS - OPERATIONS													
	9,230,522	16.25	8,662,551	16.25	20,202,882	19.00	7,407,825	11,251,888	25,107,642	19.00	27,243,735	19.00		

**WATER FUND - PUBLIC WORKS  
FY 2018-19 ADOPTED**

Code	Position Title	Actual FY 17-18	Adopted FY 18-19	New	Transfer	Reclass	Deleted	Ending FY 18-19
46	PRINCIPAL ENGINEER	0.40	0.40					0.40
49	PROG COORDINATOR -PUBLIC WORKS	1.00	1.00					1.00
57	PUBLIC WORKS SUPERVISOR	2.00	2.00					2.00
68	ENGINEERING ASSOCIATE	0.00	1.00					1.00
84	PROJECT ENGINEER 1	1.50	2.50					2.50
112	PUBLIC WORKS MANAGER 3	1.00	1.00					1.00
123	ENGINEERING TECH 2	0.00	0.00					0.00
124	ENGINEERING CONST INSPECTOR	0.40	0.40					0.40
133	WATER CUSTOMER SERVICE TECH	1.00	1.00					1.00
162	WATER DISTRIBUTION LEAD	2.00	2.00					2.00
173	WATER DISTRIBUTION TECHNICIAN	6.00	6.00					6.00
175	PROJECT ENGINEER 2	1.00	1.00					1.00
178	WATER QUALITY TECHNICIAN	0.00	1.00					1.00
188	INVENTORY CONTROL TECHNICIAN	0.25	0.00					0.00
209	WATER DISTRIBUTION EQUIP OPER	3.00	5.00					5.00
221	SUPPORT SPECIALIST 2	0.50	0.50					0.50
	<b>Total</b>	<b>20.05</b>	<b>24.80</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>24.80</b>

**FY 2019-20 PROPOSED**

Code	Position Title	Ending FY 18-19	New	Transfer	Reclass	Deleted	Proposed FY 19-20
46	PRINCIPAL ENGINEER	0.40					0.40
49	PROG COORDINATOR -PUBLIC WORKS	1.00					1.00
57	PUBLIC WORKS SUPERVISOR	2.00					2.00
68	ENGINEERING ASSOCIATE	1.00					1.00
84	PROJECT ENGINEER 1	2.50		(0.40) <sup>a</sup>			2.10
112	PUBLIC WORKS MANAGER 3	1.00					1.00
123	ENGINEERING TECH 2	0.00		0.50 <sup>b</sup>			0.50
124	ENGINEERING CONST INSPECTOR	0.40		(0.40) <sup>c</sup>			0.00
133	WATER CUSTOMER SERVICE TECH	1.00					1.00
162	WATER DISTRIBUTION LEAD	2.00					2.00
173	WATER DISTRIBUTION TECHNICIAN	6.00					6.00
175	PROJECT ENGINEER 2	1.00	1.00 <sup>d</sup>				2.00
178	WATER QUALITY TECHNICIAN	1.00					1.00
188	INVENTORY CONTROL TECHNICIAN	0.00					0.00
209	WATER DISTRIBUTION EQUIP OPER	5.00					5.00
221	SUPPORT SPECIALIST 2	0.50					0.50
	<b>Total</b>	<b>24.80</b>	<b>1.00</b>	<b>(0.30)</b>	<b>0.00</b>	<b>0.00</b>	<b>25.50</b>

<sup>a</sup> FY 2019-20 reallocates one Project Engineer position to more accurately reflect the position's time to 100% in the Street Fund - Traffic & Transportation Management Program.

<sup>b</sup> FY 2019-20 reallocates an Engineering Technician position to more accurately reflect the position's time to 50% in the Water Fund, 25% in the Sewer Fund, and 25% in the Storm Drain Fund.

<sup>c</sup> FY 2019-20 reallocates one of the Engineering Construction Inspector positions to more accurately reflect the position's time to 100% in the General Fund - Site Development Program.

<sup>d</sup> FY 2019-20 proposes a new 1 FTE Project Engineer 2 position in the Enterprise Management & Admin Program.

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 EST AMT	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE		AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 BEGINNING WORKING CAPITAL

301	BEGINNING WORKING CAPITAL												
		11,626,817	12,236,827	13,147,277		13,147,277		12,856,211			12,877,835		

TOTAL CLASS: 05 BEGINNING WORKING CAPITAL

		11,626,817	12,236,827	13,147,277		13,147,277		12,856,211			12,877,835		
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CLASS: 15 INTERGOVERNMENTAL REVENUE

329	OTHER INTERGOVERNMENTAL REV												
		294	101,872	88,820		88,820					80,000		

TOTAL CLASS: 15 INTERGOVERNMENTAL REVENUE

		294	101,872	88,820		88,820					80,000		
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CLASS: 20 PERMITS & FEES

355	WATER METER INSTALLATION FEES												
		10,134	51,989	45,000		25,000		20,000			20,000		

TOTAL CLASS: 20 PERMITS & FEES

		10,134	51,989	45,000		25,000		20,000			20,000		
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CLASS: 25 SERVICE FEES

361	WATER SALES												
		9,126,336	10,127,493	10,200,000		11,218,780		13,940,200			14,037,532		

362	UNMETERED WATER SALES												
		3,576	29,914	14,000		20,000		15,000			15,000		

364	CUSTOMER SERV CHARGES												
		25,420	27,385	25,000		23,750		25,000			25,000		

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	OBJECT DESCRIPTION	JUSTIFICATIONS
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301 BEGINNING WORKING CAPITAL

329 OTHER INTERGOVERNMENTAL REV  
 LEASE OF THE CITY'S EXCESS 2.1MGD JWC PLANT CAPACITY TO THE TUALATIN VALLEY WATER DISTRICT

355 WATER METER INSTALLATION FEES  
 CHARGES FOR NEW WATER METERS ARE INCREASING FOR METERS WHICH ARE CAPABLE OF RADIO SIGNAL READING \$20,000

361 WATER SALES  
 FY 16-17 NO RATE INCREASE IS REFLECTED IN WATER SALES  
 FY 17-18 WATER SALES REFLECTS A 3.37% INCREASE IN THE CONSUMPTION CHARGE WHICH IS A 10 CENT INCREASE FROM \$2.97 TO \$3.07 PER 100 CUBIC FEET OF WATER EFFECTIVE JULY 1, 2017  
 17 CENTS IS DEDICATED TO FUTURE CAPACITY INCREASES FOR THE WATER CONSTRUCTION FUND  
 FY 18-19 WATER SALES REFELECTS A 3.26% INCREASE ON CONSUMPTION WHICH IS A 10 CENT INCREASE FROM \$3.07 TO \$3.17 PER 100 CUBIC FEET OF WATER EFFECTIVE JULY1, 2018  
 17 CENTS IS DEDICATED TO FUTURE CAPACITY INCREASES FOR THE WATER CONSTRUCTION FUND  
 FY2018-19 REVISED ESTIMATE INCUDES:  
 3% INCREASE IN WATER SALES REVENUES OVER LAST YEAR'S ACTUALS - \$431,000  
 REVENUE FROM AREAS WITHDRAWN FROM TVWD AND BILLED BY BEAVERTON  
 AREAS 2 AND 5 BEGINNING IN DECEMBER 2018 - \$85,480  
 AREAS 3 AND 6 BEGINNING IN MARCH 2019 - \$180,580  
 AREA 4 BEGINNING IN MAY 2019 - 420,720  
 FY 19-20 WATER SALES REFELECTS A 3.15% INCREASE ON CONSUMPTION WHICH IS A 10 CENT INCREASE FROM \$3.17 TO \$3.27 PER 100 CUBIC FEET OF WATER EFFECTIVE JULY 1, 2019 \$10,863,200  
 REVENUE FROM AREAS WITHDRAWN FROM TVWD AND BILLED BY BEAVERTON  
 AREA 2 \$77,551  
 AREA 3 \$336,199  
 AREA 4 \$2,411,072  
 AREA 5 \$103,410  
 AREA 6 \$246,100

362 UNMETERED WATER SALES  
 CHARGES FOR USING WATER FROM HYDRANTS

364 CUSTOMER SERV CHARGES  
 FEES CHARGED FOR RETURNED CHECKS AND WATER METER TURN ON FEES.

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
366	DEMAND CHARGE												
	3,305,627		3,579,324		3,900,000		4,161,800	5,366,765		5,366,782			
369	UTILITY SALES ALLOWANCES												
	-63,474		-71,077		-75,000		-75,000	-75,000		-85,000			
TOTAL CLASS: 25 SERVICE FEES													
	12,397,485		13,693,039		14,064,000		15,349,330	19,271,965		19,359,314			
CLASS: 35 MISCELLANEOUS REVENUES													
382	SALE OF CITY OR BURA PROPERTY												
	29,206		12,825				3,368						
384	INVESTMENT INTEREST EARNINGS												
	148,244		206,543		235,400		275,600	313,600		313,600			
389	MISCELLANEOUS REVENUES												
	51,002		34,547		30,000		30,000	30,000		30,000			
394	MISC INTEREST EARNINGS												
	18,108		19,318		40,000		20,000	20,000		20,000			
398	SRVS PROVIDED TO OTHER FUNDS												
	121,745		91,179		60,000		300,000	200,000		200,000			
399	REIMBURSEMENTS - OTHER												
	173		280										
753	ENERGY EFFICIENCY REBATES												
757	MED/LIFE INS PREM REFUND DISTRIBUTION												
	5,210		3,656				2,261						
TOTAL CLASS: 35 MISCELLANEOUS REVENUES													
	373,688		368,348		365,400		631,229	563,600		563,600			
TOTAL PROGRAM: 0000 UNRESTRICTED													
	24,408,418		26,452,075		27,710,497		29,241,656	32,711,776		32,900,749			

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

366 DEMAND CHARGE  
 MONTHLY METER COMPONENT OF CUSTOMER WATER CHARGES. THIS CHARGE IS FOR THE BASE CAPACITY DEMAND THAT EACH METER PLACES ON THE SYSTEM, METER REPAIR AND REPLACEMENT, LINE MAINTENANCE AND METER READING  
 FY 16-17 NO RATE INCREASE IS REFLECTED IN WATER BASE CHARGES  
 FY 17-18 REFLECTS MODEST GROWTH IN THE NUMBER OF NEW METERS SERVED AND \$1 PER MONTH (7.69%) INCREASE ON ALL METER SIZES, EFFECTIVE 7/1/2017.  
 FY 18-19 MODEST GROWTH IN THE NUMBER OF NEW METERS SERVED AND \$1 PER MONTH (7.14%) INCREASE ON ALL METER SIZES, EFFECTIVE 7/1/2018  
 FY2018-19 ESTIMATE INCLUDES REVENUE FROM AREAS WITHDRAWN FROM TVWD DURING THE YEAR:  
 AREAS 2 AND 5 BEGINNING IN DECEMBE 2018 - \$54,950  
 AREAS 3 AND 6 BEGINNING IN MARCH 2019 - \$100,470  
 AREA 4 BEGINNING IN MAY 2019 - 154,850  
 FY 19-20 MODEST GROWTH IN THE NUMBER OF NEW METERS SERVED AND \$1 PER MONTH (7.14%) INCREASE ON ALL METER SIZES, EFFECTIVE 7/1/2019 \$3,953,475  
 REVENUE FROM AREAS WITHDRAWN FROM TVWD AND BILLED BY BEAVERTON  
 AREA 2 \$88,320  
 AREA 3 \$198,360  
 AREA 4 \$991,253  
 AREA 5 \$12,178  
 AREA 6 \$123,196

369 UTILITY SALES ALLOWANCES  
 BILLING ADJUSTMENTS TO CUSTOMER ACCOUNTS FOR LEAKS, WRITE OFF OF DELINQUENT CHARGES, WHEN APPLICABLE AND WRITE OFF OF UNCOLLECTIBLE ACCOUNTS -\$85,000

382 SALE OF CITY OR BURA PROPERTY

384 INVESTMENT INTEREST EARNINGS  
 INTEREST EARNINGS IS BASED ON AVAILABLE CASH BALANCES AND INTEREST RATES:  
 FY 16-17 BUDGETED INTEREST EARNINGS ARE BASED UPON .55%  
 FY 17-18 BUDGETED INTEREST EARNINGS ARE BASED UPON 1.10%  
 FY 18-19 BUDGETED INTEREST EARNINGS ARE BASED UPON 1.75% FY 19-20 BUDGETED INTEREST EARNINGS ARE BASED UPON 3.00% \$313,600

389 MISCELLANEOUS REVENUES  
 AT&T CELL TOWER SITE LEASE, T-MOBILE CELL TOWER SITE LEASE, HYDRANT METER RENTALS, 3RD PARTY RECOVERIES FOR DAMAGES TO CITY PROPERTY

394 MISC INTEREST EARNINGS  
 REVENUES FROM DELINQUENT CHARGES ASSESSED THROUGH THE CITY'S UTILITY BILLING SYSTEM \$20,000

398 SRVS PROVIDED TO OTHER FUNDS  
 REIMBURSEMENTS RECEIVED FROM OTHER FUNDS FOR PROVIDING IN-HOUSE ENGINEERING SERVICES FOR CAPITAL PROJECTS. \$200,000

399 REIMBURSEMENTS - OTHER

753 ENERGY EFFICIENCY REBATES

757 MED/LIFE INS PREM REFUND DISTRIBUTION  
 MODA MEDICAL INSURANCE PREMIUM EXPERIENCE REBATE DISTRIBUTION TO OPERATING FUNDS

**BP WORKSHEET & JUSTIFICATION**

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
TOTAL DEPARTMENT: 03 REVENUE													
	24,408,418		26,452,075		27,710,497		29,241,656	32,711,776		32,900,749			

## BP WORKSHEET & JUSTIFICATION

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

046	PRINCIPAL ENGINEER												
	52,867	.40	53,062	.40	55,197	.40	55,074	58,509	.40	57,940	.40		
068	ENGINEERING ASSOCIATE												
					37,453	1.00	26,536	83,970	1.00	83,970	1.00		
084	PROJECT ENGINEER 1												
	110,439	1.50	141,555	1.50	235,593	2.50	234,983	216,168	2.10	214,071	2.10		
123	ENGINEERING TECH 2												
										35,314	.50		
124	ENGINEERING CONST INSPECTOR												
		.40	24,829	.40	26,813	.40	27,884						
175	PROJECT ENGINEER 2												
			30,591	1.00	114,248	1.00	111,888	123,344	1.00	214,973	2.00		
221	SUPPORT SPECIALIST 2												
	22,009	.50	23,721	.50	25,646	.50	25,537	28,021	.50	28,021	.50		
299	PAYROLL TAXES AND FRINGES												
	95,823		141,845		281,032		233,863	279,130		367,345			

TOTAL CLASS: 05 PERSONNEL SERVICES

	281,138	2.80	415,603	3.80	775,982	5.80	715,765	789,142	5.00	1,001,634	6.50		
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CLASS: 10 MATERIALS & SERVICES

303	OFFICE FURNITURE & EQUIPMENT												
			1,616		5,600		3,500	600		3,100			
305	SPECIAL DEPARTMENT SUPPLIES												
	57		70		400		200	400		400			

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 046 PRINCIPAL ENGINEER  
 POSITION IS ALLOCATED .40 FTE 501-72-0740 / .25 FTE 502-72-0740 / .25 FTE 513-72-0740 / AND .10 FTE 001-72-0703.
- 068 ENGINEERING ASSOCIATE  
 FY 2018-19 REFLECTS A NEW 1 FTE ENGINEERING ASSOCIATE ADDED MID-YEAR VIA AGENDA BILL 19046
- 084 PROJECT ENGINEER 1  
 1 FTE PROJ ENGR 1 ALLOCATED 60% 001-85-0701 AND 10% IN EACH OF THE FOLLOWING:  
 101-72-0735, 502-72-0740, 513-72-0740, 501-72-0740.  
 1 FTE PROJ ENGR 1 ALLOCATED 100% 501-72-0740.  
 1 FTE PROJ ENGR 1 ALLOCATED: 40% 513-72-0740, 40% 501-72-0740, 20% 101-72-0735.  
 FY 17-18 REFLECTS NEW 1 FTE PROJECT ENGINEER 1 POSITION.  
 FY 17-18 REFLECTS MID-YEAR RECLASSIFICATION OF 1 FTE PROJECT ENGINEER POSITION TO 1 FTE PROJECT ENGINEER 2 POSITION.  
 FY 18-19 REFLECTS A NEW 1 FTE PROJECT ENGINEER 1 POSITION 100% IN 501-72-0740.  
 FY 2019-20 REFLECTS 1 FTE PROJECT ENGR 1 POSITION BEING REALLOCATED FROM 20/40/40 IN STREET FUND / WATER FUND / STORM DRAIN FUND TO 100% IN STREET FUND PROGRAM 0735.
- 123 ENGINEERING TECH 2  
 FY 2019-20 REFLECTS 1 FTE ET2 TRANSFERRED FROM THE GENERAL FUND - ENGINEERING TO 50 / 25 / 25 IN WATER FUND / SEWER FUND / STORM DRAIN FUND - ENTERPRISE MGMT PROGRAM.
- 124 ENGINEERING CONST INSPECTOR  
 1 FTE ENGINEERING CONSTRUCTION INSPECTOR IS ALLOCATED  
 40% 501-72-0740, 40% 513-72-0740, 20% 101-72-0735  
 FY 2019-20 REFLECTS 1 FTE ENGR CONST INSPECTOR POSITION'S ALLOCATION CHANGING FROM 20/40/40 IN STREET FUND 101-72-0735 / WATER FUND 501-72-0740 / STORM FUND 513-72-0740 TO 100% IN GENERAL FUND (001-70-0701)
- 175 PROJECT ENGINEER 2  
 FY 17-18 REFLECTS MID-YEAR RECLASSIFICATION OF 1 FTE PROJECT ENGINEER POSITION TO 1 FTE PROJECT ENGINEER 2 POSITION.  
 FY 19-20 REFLECTS A NEW 1 FTE PROJECT ENGINEER 2 POSITION.
- 221 SUPPORT SPECIALIST 2  
 POSITION IS ALLOCATED .50 FTE 501-72-0740 / .25 FTE 502-72-0740 / .25 FTE 513-72-0740.
- 299 PAYROLL TAXES AND FRINGES  
 PAYROLL TAXES AND FRINGE BENEFITS EXPRESSED AS A PERCENTAGE OF SALARY TOTALS 58.14% AS A CITY-WIDE AVERAGE AND CONSISTS OF THE FOLLOWING:  
 34.14% IN PAYROLL TAXES CONSISTING OF 7.65% FICA, AVERAGE OF 23.22% FOR RETIREMENT CONTRIBUTIONS (28.45% PERS. 19.45% OPSRP GENERAL OR 24.08% OPSRP POLICE), AND 3.27% IN OTHER TAXES (UNEMPLOYMENT, LONG TERM DISABILITY, WORKERS COMPENSATION, PEHP, AND TRIMET)  
 24.00% AS THE AVERAGE COST OF MEDICAL, DENTAL, LIFE AND AD&D INSURANCES

- 303 OFFICE FURNITURE & EQUIPMENT  
 MISCELLANEOUS OFFICE FURNITURE AND EQUIPMENT \$600  
 OFFICE FURNITURE & EQUIPMENT FOR NEW PROJ ENGR 2 POSITION \$2,500
- 305 SPECIAL DEPARTMENT SUPPLIES  
 MISCELLANEOUS SUPPLIES AND MATERIALS \$400

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
307	MEMBERSHIP FEES												
	46,968		48,390		52,150		54,395	60,005		60,925			
314	OUTSIDE REPRODUCTION EXPENSES												
	955				1,000			1,000		1,000			
317	COMPUTER EQUIPMENT												
		5,294			10,535		3,150			1,500			
318	COMPUTER SOFTWARE												
		4,000			2,000			27,000		30,000			
321	TRAVEL, TRAINING & SUBSISTENCE												
	7,124		10,785		14,600		7,000	23,425		25,825			
328	MEALS & RELATED EXPENSE												
	602		608		1,500		800	1,500		1,500			
341	COMMUNICATIONS EXPENSE												
					250								
361	UNIFORMS & SPECIAL CLOTHING												
		597			600		600	750		750			
444	ASR OPERATING & MONITORING EXP												
					195,978		195,978	306,550		306,550			
445	NON-CIP ENGINEERING EXPENSE												
										50,000			
461	SPECIAL EXPENSE												
	15,941		13,341		34,600		5,000	30,900		30,900			
511	PROFESSIONAL SERVICES												

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 307 MEMBERSHIP FEES
  - 5 - PROF ENGINEER LICENSE RENEWAL (INCLUDING NEW PE2 POSITION) \$1,000
  - 3 - ASCE (AMERICAN SOCIETY OF CIVIL ENGINEERS) (\$225EA) (DW, PD & NEW PE2) \$675
  - OREGON ASSOC OF WATER UTILITIES (CITY MEMBERSHIP) \$8,200
  - AWWA CITY MEMBERSHIP \$3,900
  - AMERICAN PUBLIC WORKS ASSOCIATION MEMBERSHIP (SS & NEW PE2) \$380
  - WATER RIGHTS EXAMINER LICENSE RENEWAL (DW) \$100
  - REGIONAL WATER PROVIDER CONSORTIUM ANNUAL DUES \$40,000
  - LEAGUE OF OREGON CITIES ANNUAL DUES (WATER PORTION) \$6,345
  - 1-PROF LAND SURVEYOR LICENSE RENEWAL (\$220EA) (DW) \$225
  - 1-PLSO MEMBERSHIP (\$100EA) (DW) \$100
- 314 OUTSIDE REPRODUCTION EXPENSES
  - AWWA COPYRIGHTED BROCHURES & MATERIALS; OTHER PRINTED MATERIALS RELATED TO WATER \$1,000
- 317 COMPUTER EQUIPMENT
  - COMPUTER EQUIPMENT & MONITORS FOR NEW PROJECT ENGINEER 2 POSITION \$1,500
- 318 COMPUTER SOFTWARE
  - SOFTWARE MODELING PACKAGE \$29,000
  - SOFTWARE FOR NEW PROJ ENGINEER 2 POSITION \$1,000
- 321 TRAVEL, TRAINING & SUBSISTENCE
  - 4 - TRAVEL/TRAINING FOR PROFESSIONAL ENGINEERS PDH TO MAINTAIN CERTICATION \$3,000
  - 1 - TRAINING FOR WATER DIST 1 PROFESSIONAL DEV HOURS (BB) \$1,200
  - 1 - PROFESSIONAL ENG/PROF LAND SURVEYOR/WATER RIGHTS (PRINCIAL ENG) \$3,500
  - 5 - PNWS-AWWA CONFERENCE REGISTRATION AND EXPENSES (\$1,500 EA) (4 PE, 1 SPECIALIST) \$7,500
  - 2 - APWA CONFERENCE AND TECHNICAL TRAINING \$3,400
  - 1 - TRAINING FOR SANITARY CERT PROFESSIONAL DEV HOURS (DW) \$1,200
  - DEPARTMENTAL PROFESSIONAL DEVELOPMENT \$2,625
  - 1 - TRAINING FOR ASSOCIATE ENGINEER \$1,000
  - FOR NEW PROJ ENGR 2 POSITION: APWA CONF AND TECHNICAL ENGINEER TRAINING \$2,400
- 328 MEALS & RELATED EXPENSE
  - PROF MEETINGS AND MEALS ASSOCIATED WITH TRAINING \$500
  - HOST WATER REGIONAL WATER PROVIDERS CONSORTIUM MEETINGS \$400
  - HOST AWWA SUBSECTION LUNCH \$600
- 341 COMMUNICATIONS EXPENSE
  - CELL PHONE USAGE FOR NEW ENGINEERING ASSOCIATE POSITION
- 361 UNIFORMS & SPECIAL CLOTHING
  - 5 - RAINGEAR, FOOTWEAR, CLOTHING, JACKETS, HARD HATS, VESTS & SAFETY EQUIP (\$150/EMPLOYEE) \$750
- 444 ASR OPERATING & MONITORING EXP
  - ASR ANNUAL REPORTING AND ON CALL SERVICES \$198,000
  - WELL TESTING/TESTING ASR6 & 7 \$108,550
- 445 NON-CIP ENGINEERING EXPENSE
  - WATER SYSTEM HYDRAULIC MODELING & MAPPING \$50,000
- 461 SPECIAL EXPENSE
  - INFORMATION DEVICES (EMERGENCY PREPAREDNESS AND WATER CONSERVATION) \$1,500
  - WATER SAVINGS KITS FOR PUBLIC DISTRIBUTION \$3,000
  - MANDATED COB WATER SYSTEM EMERGENCY RESPONSE PLAN UPDATE \$5,000
  - CITY SHARE OF JWC WASH. CO FAIR BOOTH \$500
  - MESSENGER SERVICES \$400
  - WATER SAVINGS REBATE PROGRAM \$20,000
  - CITY SHARE OF COLLEGE CAREER FAIR BOOTH FOR STAFF RECRUITMENT 500 \$500
- 511 PROFESSIONAL SERVICES

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	63,163		63,537		66,948		66,948	411,800		461,800			
TOTAL CLASS: 10 MATERIALS & SERVICES													
	134,810		148,238		386,161		337,571	863,930		974,250			
CLASS: 25 TRANSFERS													
816	TRSFERS TO REPROGRAPHICS FUND												
	2,540		3,709		3,327		3,327	1,749		1,651			
817	TRSFERS TO GARAGE FUND												
	639				857		857						
835	TRSFER TO GF, BVTN BLDG OPERATIONS												
			20,592		10,296		10,296	16,701		16,701			
836	TRSFER TO GF, BVTN BLDG DEBT SVC												
			27,400		10,356		10,356	12,834		12,834			
TOTAL CLASS: 25 TRANSFERS													
	3,179		51,701		24,836		24,836	31,284		31,186			
TOTAL PROGRAM: 0740 ENTERPRISE MGMT & ADMIN													
	419,127	2.80	615,542	3.80	1,186,979	5.80	1,078,172	1,684,356	5.00	2,007,070	6.50		
TOTAL DEPARTMENT: 72 CAPITAL DEVELOPMNT-ENGINEERING													
	419,127	2.80	615,542	3.80	1,186,979	5.80	1,078,172	1,684,356	5.00	2,007,070	6.50		

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

CONSULTANT SERVICES FOR EPA MANDATED CONSUMER CONFIDENCE REPORT \$7,000  
 ELEMENTARY SCHOOLS WATER CONSERVATION PERFORMANCE \$2,800  
 IN-HOUSE LOCATE CHARGES \$45,000  
 S&B STUDY/TELEMETRY \$5,000  
 WATER AUDITS FOR WATER CONSERVATION \$2,000  
 WATER SDC RATE STUDY (POTABLE AND NON-POTABLE) \$100,000  
 COMMUNITY WATER SYSTEM RISK AND RESILENCE \$100,000  
 FEDERAL SAFE DRINKING WATER ACT REPORT \$100,000  
 SHAKE ALERT - TELEMETRY INTERGRATION \$25,000  
 FRACTA - PIPELINE CONDITION ASSESSMENT \$25,000  
 WATER SYSTEM HYDROLIC MODELING \$50,000

- 816 TRSFERS TO REPROGRAPHICS FUND  
 ALLOCATION OF COPIER, GRAPHICS, PRINTING, MAILING, & POSTAGE CHARGES THROUGH REPROGRAPHICS \$1,651
- 817 TRSFERS TO GARAGE FUND  
 ALLOCATION OF FLEET SERVICES (FUEL, MAINTENANCE & REPLACEMENT) PROVIDED BY THE GARAGE FUND
- 835 TRSFR TO GF, BVTN BLDG OPERATIONS  
 BEAVERTON BUILDING OPERATING EXPENSE ALLOCATION \$16,701
- 836 TRSFR TO GF, BVTN BLDG DEBT SVC  
 BEAVERTON BUILDING DEBT SERVICE EXPENSE ALLOCATION \$12,834

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0741 WATER SERVICES

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 10 MATERIALS & SERVICES

316 ADVERTISING, RECORDING & FILING  
 2,118

409 WATER PURCHASES FOR RESALE  
 1,288,362      1,383,335      1,627,525      1,499,382      2,475,491      1,684,550

410 BARNEY RESERVOIR OPERATIONS  
 88,608      95,900      164,609      100,000      150,051      150,051

417 WILLAMETTE INTAKE FACILITIES OPER  
 16,000      10,000      10,000      13,000

418 JWC OPERATING EXP - OTHER  
 17,585      79,811      42,250      22,752      45,000      45,000

439 WATER WHEELING SERVICES - TWWD  
 383,000      1,671,622      1,671,621

447 WATER PURCHASES - WHEELING  
 510,000

497 DEBT ISSUANCE COST  
 135,399      850      850      150,850

498 UNDERWRITERS DISCOUNT, BOND  
 9,816      20,000

511 PROFESSIONAL SERVICES  
 233,704      248,674      226,800      226,800      310,000      310,000

512 CITY RIGHT OF WAY FEES  
 619,246      641,861      652,035      732,409      919,379      919,379

525 PMTS TO OTHER GOVERNMENT AGENCIES  
 50,924      53,778      56,400      55,891      60,000      60,000

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0741 WATER SERVICES

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 316 ADVERTISING, RECORDING & FILING
  
- 409 WATER PURCHASES FOR RESALE
  - FY 17-18 INCLUDES:
  - JWC WATER TREATMENT PLANT WATER PRODUCTION CHARGES BUD \$1,400,000/ ACTUAL \$1,365,000
  - BUREAU OF RECLAMATION BUD \$26,000/ ACTUAL \$18,000
  - PORTLAND WATER BUREAU BUD \$500/ ACTUAL 500
  - FY 18-19 INCLUDES \$1,600,000 FOR JWC WATER AND TREATMENT PLANT COSTS, \$27,000 BUREAU OF JWC WATER TREATMENT PLANT WATER PRODUCTION CHARGES \$1,600,000
  - BUREAU OF RECLAMATION \$27,000
  - PORTLAND WATER BUREAU \$525
  - FY 19-20 INCLUDES:
  - JWC WATER TREATMENT PLANT WATER PRODUCTION CHARGES \$1,656,000
  - BUREAU OF RECLAMATION \$28,000
  - PORTLAND WATER BUREAU \$550
  
- 410 BARNEY RESERVOIR OPERATIONS
  - REFLECTS ALLOCATION OF STAFFING AND OPERATING EXPENSES FOR CITY OF HILLSBORO BETWEEN BARNEY MEMBERS.
  - INCLUDES THE COST OF SAMPLING AND ANALYSIS FOR WATER QUALITY \$150,051
  
- 417 WILLAMETTE INTAKE FACILITIES OPER
  - BEAVERTON'S PROPORTIONAL EXPENSE OF THE WILLAMETTE INTAKE FACILITIES COMMISSION'S OPERATIONS. \$13,000
  
- 418 JWC OPERATING EXP - OTHER
  - MAINTENANCE PERFORMED BY JWC STAFF ON CHLORINE SCRUBBER, TRANSMISSION LINE CORRIDOR, SEDIMENT REMOVAL AND INSPECTIONS OF THE CLEARWELL AND RESERVOIRS. \$45,000
  
- 439 WATER WHEELING SERVICES - TVWD
  - PAYMENT TO TVWD TO WHEEL WATER THROUGH TVWD'S SYSTEM FOR THE 4,077 ACCOUNTS THAT WERE WITHDRAWN FROM TVWD'S SERVICE AREA AND TRANSFERRED TO THE CITY OF BEAVERTON'S SERVICE AREA
  - FY 2018-19 216,655 CCF OF WATER AT WHEELING CHARGE OF \$1.722 PER CCF \$373,080
  - FY 2019-20 970,744 CCF OF WATER AT WHEELING CHARGE OF \$1.722 PER CCF \$1,671,621
  
- 447 WATER PURCHASES - WHEELING
  - WATER PURCHASES FROM THE JWC WATER TREATMENT PLANT THAT IS WHEELED THROUGH TVWD'S WATER SYSTEM TO SERVE THE AREAS WITHDRAWN FROM THE TVWD'S SERVICE DISTRICT AND NOW SERVED BY CITY OF BEAVERTON \$510,000
  
- 497 DEBT ISSUANCE COST
  - BOND PAYING AGENT FEES \$850
  - BOND ISSUANCE COSTS FOR PROJECTED \$30 MILLION 2019 WATER REVENUE BONDS \$150,000
  
- 498 UNDERWRITERS DISCOUNT, BOND
  - COST FOR PROJECTED \$30 MILLION 2019 WATER REVENUE BONDS \$20,000
  
- 511 PROFESSIONAL SERVICES
  - FY 2019-20 INCREASE REFLECTS A SLIGHT INCREASE FOR GROWTH IN NUMBER OF METERS READ AND ADDITIONAL COSTS EXPECTED WITH THE TVWD WITHDRAWAL AREAS AND SOUTH COOPER MOUNTAIN \$310,000
  
- 512 CITY RIGHT OF WAY FEES
  - THIS ACCOUNT WAS ESTABLISHED TO ACCOUNT FOR THE PAYMENT IN LIEU OF 5% ROW LICENSE FEES TO THE GENERAL FUND.
  - FY 2019-20 INCREASE REFLECTS THE 4,077 WATER ACCOUNTS THAT WERE WITHDRAWN FROM THE TVWD AND NOW SERVED AND BILLED BY THE CITY OF BEAVERTON \$919,379
  
- 525 PMTS TO OTHER GOVERNMENT AGENCIES
  - PAYMENTS TO WEST SLOPE WATER DISTRICT FOR TRANSFER OF 66 ACCOUNTS TO THE CITY OF BEAVERTON. INCLUDES 4.36% OF ANNUAL DEBT SERVICE ON WATER RESERVOIR BOND ISSUE AND REIMBURSEMENT FOR UNDERCONSUMPTION ON THE PORTLAND WATER CONTRACT \$60,000

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0741 WATER SERVICES

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

TOTAL CLASS: 10 MATERIALS & SERVICES

	2,298,429		2,650,692		2,786,469		3,031,084	5,641,543		5,534,451			
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CLASS: 25 TRANSFERS

801	TRSFR TO GENERAL FD - OVERHEAD	217,037		318,316		360,830	360,830	448,971		448,971			
802	TRSFR TO GENERAL FD-ACCOUNTING	49,312		28,616		62,355	62,355	100,875		100,875			
818	TRSFERS TO ISD-ALLOCATED	193,014		232,089		286,721	286,721	332,587		329,957			
819	TRSFERS TO INSURANCE FUND	198,941		228,792		228,792	228,792	285,990		285,990			
832	TRSFERS TO WATER DEBT SVC FUND	1,495,160		748,426		2,184,994	2,184,994	2,184,994		2,184,994			
833	TRSFERS TO WATER CONSTRUCT FUND	1,776,000		1,230,000		1,000,000	1,000,000	2,000,000		2,000,000			

TOTAL CLASS: 25 TRANSFERS

	3,929,464		2,786,239		4,123,692		4,123,692	5,353,417		5,350,787			
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CLASS: 30 FUND BAL/CONTINGENCY/RESERVES

987	RESERVE - JWC EMERGENCY EQUIPMT					500,000		500,000		500,000			
991	CONTINGENCY - UNRESERVED					7,342,101		7,078,746		9,410,575			
995	RESERVE - RATE STABILIZATION					600,000		600,000		600,000			
996	RESERVE - EQUIPMENT REPLACEMT					342,168		398,636		398,636			

TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES

						8,784,269		8,577,382		10,909,211			
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TOTAL PROGRAM: 0741 WATER SERVICES

	6,227,893		5,436,931		15,694,430		7,154,776	19,572,342		21,794,449			
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**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0741 WATER SERVICES

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 801 TRSFR TO GENERAL FD - OVERHEAD  
 ALLOCATION OF OVERHEAD SERVICES PROVIDED BY THE GENERAL FUND  
 14.59% OF FY18-19 BUDGETED PERSONNEL SERVICES TOTAL EXPENDITURES \$448,971
- 802 TRSFR TO GENERAL FD-ACCOUNTING  
 ALLOCATION OF ACCOUNTING SERVICES PROVIDED BY THE GENERAL FUND \$100,875
- 818 TRSFRS TO ISD-ALLOCATED  
 ALLOCATION OF SERVICES PROVIDED BY THE INFORMATION SYSTEMS FUND \$246,423  
 SOFTWARE MAINTENANCE - TELEMETRY, ASSET SYSTEM, BACKFLOW SYSTEM AND UTILITY BILLINGS \$81,334  
 ENGINEERING SOFTWARE UPGRADES \$2,200
- 819 TRSFRS TO INSURANCE FUND  
 ALLOCATION OF CHARGES FOR GENERAL LIABILITY AND PROPERTY INSURANCE \$285,990
- 832 TRSFRS TO WATER DEBT SVC FUND  
 DEBT SERVICE (PRINCIPAL & INTEREST) ON OUTSTANDING WATER REVENUE BONDS. (2016 & 2018) \$2,184,994
- 833 TRSFRS TO WATER CONSTRUCT FUND  
 TRANSFER FROM WATER OPERATING FUND TO HELP COVER THE COST OF VARIOUS JWC AND EXTRA  
 CAPACITY INCREASE PROJECTS \$2,000,000

- 987 RESERVE - JWC EMERGENCY EQUIPMT  
 DEDICATED CONTINGENCY FOR JOINT WATER COMMISSION EMERGENCY PLANT EQUIPMENT \$500,000  
 (CITY'S SHARE IS 25% OF \$2,000,000)
- 991 CONTINGENCY - UNRESERVED
- 995 RESERVE - RATE STABILIZATION  
 DEDICATED CONTINGENCY FOR WATER RATE STABILIZATION PER BOND COVENANTS \$600,000
- 996 RESERVE - EQUIPMENT REPLACEMT  
 RESERVE FOR EQUIPMENT REPLACEMENT, JWC RESERVE FOR VEHICLE REPLACEMENT, COB \$398,636

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0742 WATER SYSTEM DISTRIBUTION

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

057	PUBLIC WORKS SUPERVISOR												
	66,961	1.00	83,693	1.00	87,437	1.00	83,817	96,474	1.00	91,050	1.00		
112	PUBLIC WORKS MANAGER 3												
	54,444	.50	55,673	.50	57,061	.50	58,079	61,661	.50	61,067	.50		
133	WATER CUSTOMER SERVICE TECH												
	57,386	1.00	62,949	1.00									
162	WATER DISTRIBUTION LEAD												
	1,851	1.00	64,571	1.00	79,415	1.00	77,616	84,827	1.00	80,966	1.00		
173	WATER DISTRIBUTION TECHNICIAN												
	298,262	6.00	194,214	6.00	328,100	6.00	191,045	380,307	6.00	338,999	6.00		
188	INVENTORY CONTROL TECHNICIAN												
	13,757	.25	15,822	.25									
209	WATER DISTRIBUTION EQUIP OPER												
	144,706	3.00	166,563	3.00	291,860	5.00	324,305	370,112	5.00	336,746	5.00		
299	PAYROLL TAXES AND FRINGES												
	329,352		353,470		620,352		479,302	667,430		668,668			

TOTAL CLASS: 05 PERSONNEL SERVICES

	966,719	12.75	996,955	12.75	1,464,225	13.50	1,214,164	1,660,811	13.50	1,577,496	13.50		
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CLASS: 10 MATERIALS & SERVICES

301	OFFICE EXPENSE												
	15		153		400		658	600		600			
303	OFFICE FURNITURE & EQUIPMENT												
	485		66		400		400	1,050		1,050			
304	DEPARTMENT EQUIPMENT EXPENSE												
	13,067		13,797		18,500		17,000	32,000		32,000			
305	SPECIAL DEPARTMENT SUPPLIES												
	6,956		5,328		6,800		6,800	6,800		6,800			

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0742 WATER SYSTEM DISTRIBUTION

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 057 PUBLIC WORKS SUPERVISOR
  
- 112 PUBLIC WORKS MANAGER 3  
 1 FTE PUBLIC WORKS MANAGER 3 IS ALLOCATED:  
 50% 501-85-0743 / 50% 501-85-0742.
- 133 WATER CUSTOMER SERVICE TECH  
 FY 18-19 REFLECTS TRANSFER OF 1 FTE WATER CUSTOMER SERVICE TECH POSITION FROM  
 PROGRAM 0742 (WATER SYSTEM DISTRIBUTION) TO PROGRAM 0743 (WATER SYSTEM QUALITY).
- 162 WATER DISTRIBUTION LEAD
  
- 173 WATER DISTRIBUTION TECHNICIAN
  
- 188 INVENTORY CONTROL TECHNICIAN  
 FY 2018-19 REFLECTS REDISTRIBUTION OF 1 FTE INVENTORY CONTROL TECH POSITION FROM  
 25% IN 001-85 / 25% IN 101-85 / 25% IN 501-85 / 10% IN 502-85 / 15% IN 513-85 TO 100% IN  
 THE GARAGE FUND.
- 209 WATER DISTRIBUTION EQUIP OPER  
 FY 16-17 REFLECTS 1.0 FTE TRANSFERRED FROM SEWER FUND'S CONSTRUCTION PROGRAM 0757 AND  
 1.0 FTE TRANSFERRED FROM STORM DRAIN FUND'S CONSTRUCTION PROGRAM 0739  
 FY 18-19 REFLECTS 2 NEW FTE WATER DISTRIBUTION EQUIPMENT OPERATOR POSITIONS.
- 299 PAYROLL TAXES AND FRINGES  
 PAYROLL TAXES AND FRINGE BENEFITS EXPRESSED AS A PERCENTAGE OF SALARY  
 TOTALS 58.14% AS A CITY-WIDE AVERAGE AND CONSISTS OF THE FOLLOWING:  
 34.14% IN PAYROLL TAXES CONSISTING OF 7.65% FICA, AVERAGE OF 23.22% FOR  
 RETIREMENT CONTRIBUTIONS (28.45% PERS. 19.45% OPSRP GENERAL OR  
 24.08% OPSRP POLICE), AND 3.27% IN OTHER TAXES (UNEMPLOYMENT,  
 LONG TERM DISABILITY, WORKERS COMPENSATION, PEHP, AND TRIMET)  
 24.00% AS THE AVERAGE COST OF MEDICAL, DENTAL, LIFE AND AD&D INSURANCES
  


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- 301 OFFICE EXPENSE  
 OFFICE SUPPLIES \$600
- 303 OFFICE FURNITURE & EQUIPMENT  
 OFFICE FURNITURE 3 NEW LOCKERS \$1,050
- 304 DEPARTMENT EQUIPMENT EXPENSE  
 REPLACEMENT OF MISCELLANEOUS POWER TOOLS \$15,000  
 TOOL SETUP FOR VALVE TURNING PROGRAM \$4,000  
 FLUSHING PROGRAM \$2,000  
 HYDRANT REPAIR AND REBUILD \$1,500  
 CORRELATION \$2,500  
 LOCATER \$3,500  
 LINE FREEZE KIT \$3,500
- 305 SPECIAL DEPARTMENT SUPPLIES  
 PIPE TAPPING BITS \$1,500  
 LUMBER \$300  
 SAW BLADES \$1,000  
 HAND TOOLS \$2,000  
 EROSION CONTROL FOR WATER LEAKS \$500  
 TRASH PUMPS \$1,500

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0742 WATER SYSTEM DISTRIBUTION

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
307	MEMBERSHIP FEES												
	1,367		823		2,740		2,200	3,440		3,440			
308	PERIODICALS & SUBSCRIPTIONS												
	89		200		200		200	450		450			
317	COMPUTER EQUIPMENT												
	500												
321	TRAVEL, TRAINING & SUBSISTENCE												
	5,372		5,169		5,600		5,600	19,335		19,335			
328	MEALS & RELATED EXPENSE												
	88												
361	UNIFORMS & SPECIAL CLOTHING												
	7,187		6,908		7,800		7,800	14,000		14,000			
371	EQUIPMENT OPER & MAINT EXPENSE												
								12,150		12,150			
413	SERVICE INSTALLATIONS												
	2,984		2,341		3,300		3,300	10,500		10,500			
419	CHEMICAL & LABORATORY SUPPLIES												
	9,907		155		16,800		10,000	12,100		12,100			
425	DUMPING EXPENSES												
	1,496		1,729		2,500		2,500	4,500		4,500			
441	LINE MAINTENANCE												
	156,050		153,412		160,475		152,000	180,000		180,000			

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0742 WATER SYSTEM DISTRIBUTION

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS
307	MEMBERSHIP FEES AWWA MEMBERSHIP \$440 OHA CERTS WATER DIST, TREATMENT (7 SINGLE @140/EACH AND 2 COMBINATION @210/EACH) \$1,400 EXAM FEE REIMBURSEMENT \$600 CROSS CONNECTION SPECIALIST, TESTER (2 SINGLE @195/EACH AND 2 COMBINATION @305/EACH) \$1,000
308	PERIODICALS & SUBSCRIPTIONS WATER DISTRIBUTION & MAINTENANCE MANUALS \$450
317	COMPUTER EQUIPMENT NO APPROPRIATION REQUESTED
321	TRAVEL, TRAINING & SUBSISTENCE TRAVEL AND SUBSISTENCE NEEDED TO SUPPORT TRAINING HOTEL AND MEAL EXPENSES \$4,000 TRAINING REGISTRATION FEES FOR WATER RECERTS (6 @500/EA) \$3,000 TRAINING REGISTRATION FEES FOR CROSS CONNECTION RECERTS TESTERS(2@550 & SPEC 2@255) \$1,610 MANAGEMENT TRAINING AWWA (2@500) \$1,000 CITYWORKS STORE ROOM TRAINING (1 WEB @500 AND 1 DAY AT CITYWORKS CONFERENCE @1500) \$2,000 AWWA MANAGEMENT INST. REG AND ALL EXPENSE FOR TWO \$3,200 APWA EXPO FOR 1 \$1,900 DEPARTMENTAL PROFESSIONAL DEVELOPMENT \$2,625
328	MEALS & RELATED EXPENSE FY 2017-18 REFLECTS THIS EXPENSE IS ACCOUNTED FOR IN THE PUBLIC WORKS ADMINISTRATION FUND
361	UNIFORMS & SPECIAL CLOTHING SAFETY GEAR AND CLOTHING \$3,500 RAINGEAR \$9,000 OTHER GEAR \$1,500
371	EQUIPMENT OPER & MAINT EXPENSE HC 100 CONTROLLER/DATALOGGER \$3,200 HEAVY DUTY BUCKET \$2,300 HEAVY DUTY FORKS \$1,150 BRADCO PICKUP BROOM \$5,500
413	SERVICE INSTALLATIONS WATER SERVICE INSTALLATIONS 1" & 2" COPPER TUBING & BRASS FITTINGS \$7,500 SOUTH COOPER MOUNTAIN ADJUSTMENT PARTS \$3,000
419	CHEMICAL & LABORATORY SUPPLIES VITA DE-CHLOR TABLETS \$7,400 HOSE MONSTER \$3,500 CHLORINE TESTING EQUIPMENT AND REAGENTS \$1,200
425	DUMPING EXPENSES LANDFILL DEBRIS DISPOSAL \$3,000 HAULING ALL DEBRIS DIRECTLY TO RECEIVING FACILITY \$1,500
441	LINE MAINTENANCE MAINTENANCE & REPAIR OF WATER MAINS, VALVES, HYDRANTS, BLOWOFFS AND SERVICES \$120,000 FIRE HYDRANT REPLACEMENT PROGRAM \$60,000

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0742 WATER SYSTEM DISTRIBUTION

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
446	METER MAINTENANCE												
	159,795		225,024		249,126		249,000	278,062		278,062			
448	MANHOLE / PRV VALVE ADJUSTMENTS												
	54,522		49,000		146,450		147,552	150,000		150,000			
461	SPECIAL EXPENSE												
	217		295		400		100	1,523		1,523			
511	PROFESSIONAL SERVICES												
	25,246		30,063		36,620		31,000	61,000		111,000			
551	RENTS AND LEASES												
	17,287		1,269		8,484		1,800	1,700		1,700			
TOTAL CLASS: 10 MATERIALS & SERVICES													
	462,630		495,732		666,595		637,910	789,210		839,210			
CLASS: 15 CAPITAL OUTLAY													
641	VEHICLES												
	133,926		747		75,400		75,400	429,223		429,223			
670	ROLLING STOCK												
								229,934		229,934			
671	EQUIPMENT												
			76,902		6,000		6,000						
TOTAL CLASS: 15 CAPITAL OUTLAY													
	133,926		77,649		81,400		81,400	659,157		659,157			
CLASS: 25 TRANSFERS													
817	TRSFERS TO GARAGE FUND												
	58,563		96,059		84,166		84,166	114,284		114,284			
TOTAL CLASS: 25 TRANSFERS													
	58,563		96,059		84,166		84,166	114,284		114,284			

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0742 WATER SYSTEM DISTRIBUTION

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 446 METER MAINTENANCE
  - REPLACE 1,000 5/8" METERS @ \$138.11 EA \$138,110
  - REPLACE 8 3" METERS @ \$1,920.14 EACH COMMERCIAL REPLACEMENT \$15,361
  - REPLACE 3 VAULTS @ \$3632.38 EA \$10,898
  - REPLACE 200 METER BOXES FOR 3/4" AND 1" METERS @ \$172.14 EA \$34,428
  - REPLACE 9 1 1/2" METERS @ \$1313.79 EA \$11,824
  - REPLACE 10 2" METERS @ \$1515.90 EA \$15,159
  - REPLACE 20 1" METERS @ \$197.42 EA \$3,948
  - REPLACE 20 METER BOXES FOR 1 1/2" TO 2" METERS @ \$316.37 EA \$6,327
  - REPLACE 100 REGISTERS AND ADD REMOTE READ CAPABILITY, \$155 \$15,500
  - REPLACE 300 3/4" BRASS METER TAIL PIECES @\$8.77 EA \$2,631
  - REPLACE 300 3/4" X 1 BRASS METER BUSHINGS @\$9.49 EA \$2,847
  - REPLACE 10 3/4" METER RISERS 12" @\$142.13 \$1,421
  - REPLACE 10 1" METER RISERS 12" @\$291.85 \$2,919
  - REPLACE 5 1 1/2" METER RISERS 12" @\$1532.36 \$7,662
  - REPLACE 5 2" METER RISERS 12" @\$1805.34 \$9,027
- 448 MANHOLE / PRV VALVE ADJUSTMENTS
  - CHARGES FOR ADJUSTING WATER MANHOLES AND VALVES REQUIRED DURING STREET RECONSTRUCTION. \$150,000
- 461 SPECIAL EXPENSE
  - COMMERCIAL DRIVERS LICENSE AND RENEWAL FEES (5 @\$61.50/EA) \$308
  - CDL TESTING FEE - 3RD PARTY TESTER (3@\$250/EA & DMV 3@\$155/EA) \$1,215
- 511 PROFESSIONAL SERVICES
  - TEST AND REPAIR LARGE METERS \$18,500
  - CALIBRATION FOR WATER GAUGES & LOCATING EQUIPMENT \$1,500
  - 6 HOT TAPS @ \$2,500 EACH \$15,000
  - UTILITY CUT PAVING \$4,000
  - FLAGGERS \$2,000
  - 12" LINE STOP \$20,000 WATER SYSTEM HYDRAULIC MODELING, MAPPING ETC. \$50,000
- 551 RENTS AND LEASES
  - MISCELLANEOUS EQUIPMENT RENTAL \$500
  - HEAVY EQUIPMENT RENTAL \$1,200
- 641 VEHICLES
  - 1 - REPLACEMENT FOR VEHICLE 7-609, (2003 F350 SERVICE BODY) WITH F550 4WD SERVICE BODY \$119,500  
 (COST INCLUDES VEHICLE, SERVICE BODY, REELS, GENERATOR, CRANE, LIGHTING, LICENSING)
  - 1 - NEW ADDITIONAL VEHICLE - PETERBILT 337 SERVICE TRUCK W/UTILITY BOX, ONBOARD AIR COMP  
 HEAVY DUTY CRANE, LIGHTING, REELS, WATER TANK, GENERATOR, SHELVEING AND LICENSING \$235,000
  - ADDITIONAL VEHICLE TO REPLACE VAC TRAILER 22-504. PETERBILT 220-33000GVW W/ 20FT FLATBED \$74,723
- 670 ROLLING STOCK
  - NEW COLD PLANER \$23,500
  - NEW TAKEUCHI TL 10 CRH TRACK LOADER \$58,158
  - REPLACEMENT DITCH WITCH FXT 65 TRUCK MOUNT VAC SYSTEM \$133,509
  - NEW TRIPLER AXLE LOW PROFILE TILT TRAILER 24000 LB \$14,767
- 671 EQUIPMENT
  - NO APPROPRIATION REQUESTED
- 817 TRSFRS TO GARAGE FUND
  - FLEET SERVICES PROVIDED BY THE GARAGE FUND \$114,284

City of Beaverton - Finance  
 Budget Preparation - 2020

## BP WORKSHEET & JUSTIFICATION

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

TOTAL PROGRAM: 0742 WATER SYSTEM DISTRIBUTION

	1,621,838	12.75	1,666,395	12.75	2,296,386	13.50	2,017,640	3,223,462	13.50	3,190,147	13.50		
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City of Beaverton - Finance  
Budget Preparation - 2020

## BP WORKSHEET & JUSTIFICATION

FUND: 501 WATER FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0743 WATER SYSTEM QUALITY

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

049	PROG COORDINATOR -PUBLIC WORKS		17,568	1.00	78,922	1.00	74,210	99,826	1.00	88,163	1.00		
057	PUBLIC WORKS SUPERVISOR		24,588	1.00	92,053	1.00	94,380	114,572	1.00	101,512	1.00		
112	PUBLIC WORKS MANAGER 3		54,442	.50	55,673	.50	57,067	61,669	.50	61,072	.50		
133	WATER CUSTOMER SERVICE TECH				67,709	1.00	70,110	76,331	1.00	66,736	1.00		
162	WATER DISTRIBUTION LEAD		83,735	1.00	89,860	1.00	83,388	96,170	1.00	90,077	1.00		
178	WATER QUALITY TECHNICIAN		148,211	2.00	120,613		51,680	8,527	1.00	54,502	1.00		
299	PAYROLL TAXES AND FRINGES		149,285		166,954		263,584	217,524		278,522		286,077	

TOTAL CLASS: 05 PERSONNEL SERVICES

	435,673	3.50	475,256	3.50	694,403	5.50	607,055	781,592	5.50	748,139	5.50		
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CLASS: 10 MATERIALS & SERVICES

301	OFFICE EXPENSE		50	151	500		400	700		700			
303	OFFICE FURNITURE & EQUIPMENT		747	1,422	1,000		550	1,000		1,000			
304	DEPARTMENT EQUIPMENT EXPENSE		23,278	10,446	39,000		38,000	40,000		40,000			

305	SPECIAL DEPARTMENT SUPPLIES		928	655	4,000		4,000	5,000		5,000			
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**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0743 WATER SYSTEM QUALITY

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 049 PROG COORDINATOR -PUBLIC WORKS  
 FY 17-18 REFLECTS MID-YEAR RECLASSIFICATION OF 1 FTE WATER QUALITY TECH POSITION TO 1 FTE PROGRAM COORDINATOR - PUBLIC WORKS POSITION.
- 057 PUBLIC WORKS SUPERVISOR  
 FY 17-18 MID-YEAR 1 FTE WATER DISTRIBUTION LEAD POSITION WAS RECLASSIFIED TO 1 FTE PUBLIC WORKS SUPERVISOR POSITION.
- 112 PUBLIC WORKS MANAGER 3  
 1 FTE PUBLIC WORKS MANAGER 3 IS ALLOCATED:  
 50% 501-85-0743 / 50% 501-85-0742.
- 133 WATER CUSTOMER SERVICE TECH  
 FY 18-19 REFLECTS TRANSFER OF 1 FTE WATER CUSTOMER SERVICE TECH POSITION FROM PROGRAM 0742 (WATER SYSTEM DISTRIBUTION) TO PROGRAM 0743 (WATER SYSTEM QUALITY).
- 162 WATER DISTRIBUTION LEAD  
 FY 17-18 MID-YEAR 1 FTE WATER DISTRIBUTION LEAD POSITION WAS RECLASSIFIED TO 1 FTE PUBLIC WORKS SUPERVISOR POSITION.
- 178 WATER QUALITY TECHNICIAN  
 FY 17-18 REFLECTS MID-YEAR RECLASSIFICATION OF 1 FTE WATER QUALITY TECH POSITION TO 1 FTE PROGRAM COORDINATOR - PUBLIC WORKS POSITION.  
 FY 18-19 REFLECTS A NEW 1 FTE WATER QUALITY TECHNICIAN POSITION.
- 299 PAYROLL TAXES AND FRINGES  
 PAYROLL TAXES AND FRINGE BENEFITS EXPRESSED AS A PERCENTAGE OF SALARY TOTALS 58.14% AS A CITY-WIDE AVERAGE AND CONSISTS OF THE FOLLOWING:  
 34.14% IN PAYROLL TAXES CONSISTING OF 7.65% FICA, AVERAGE OF 23.22% FOR RETIREMENT CONTRIBUTIONS (28.45% PERS. 19.45% OPSRP GENERAL OR 24.08% OPSRP POLICE), AND 3.27% IN OTHER TAXES (UNEMPLOYMENT, LONG TERM DISABILITY, WORKERS COMPENSATION, PEHP, AND TRIMET)  
 24.00% AS THE AVERAGE COST OF MEDICAL, DENTAL, LIFE AND AD&D INSURANCES

- 301 OFFICE EXPENSE  
 OFFICE SUPPLIES (7 EMPLOYEES @ \$100 EACH) \$700
- 303 OFFICE FURNITURE & EQUIPMENT  
 NEW OR REPLACEMENT OF MISC OFFICE EQUIPMENT FOR ASR 5 \$1,000
- 304 DEPARTMENT EQUIPMENT EXPENSE  
 CHLORINE POCKET COLORIMETER REPLACEMENTS (2 @ \$500 EA) \$1,000  
 WATER SAMPLING STATIONS (2 @ \$2,100 EA) \$4,200  
 REPLACEMENT PROBES FOR ON-LINE FLUORIDE ANALYZER (2 @ \$900 EA) \$1,800  
 REPLACEMENT PROBES FOR ON-LINE CHLORINE ANALYZERS (2 @ \$1,200 EA) \$2,400  
 ROSEMONT CHLORINE ANALYZER/PH METER MEMBRANE FILTERS \$1,000  
 HACH PH/CONDUCTIVITY PROBE (2 @ \$1000 EA) \$2,000  
 REPLACE IN-LINE FLUORIDE ANALYZER \$7,700  
 REPLACEMENT OF MULTI-PRO AIR SENSOR (2 @2000) \$4,000  
 PRESSURE TRANSDUCERS FOR ASR PROGRAM (3 @ \$2,000 EACH) \$6,000  
 STORAGE SHELVING FOR STORAGE CONTAINERS \$1,500  
 VALVE POSITION INDICATOR \$6,000  
 PRV PRESSURE TRANSMITTERS (2@ 1200) \$2,400
- 305 SPECIAL DEPARTMENT SUPPLIES  
 TELEMETRY AND PRESSURE GAUGE SUPPLIES \$1,000  
 REPLACEMENT OF TRAFFIC SAFETY EQUIPMENT/CONES AND SIGNING \$1,000  
 HAND TOOLS, BATTERIES & BUILDING SUPPLIES \$2,000  
 REPLACEMENT OF VEHICLE (TOOLS,MATS, INVERTERS,ETC) \$1,000

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0743 WATER SYSTEM QUALITY

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
307	MEMBERSHIP FEES												
	10,184		11,126		12,165		12,100	12,090				13,541	
308	PERIODICALS & SUBSCRIPTIONS												
	300				300		305	420				420	
317	COMPUTER EQUIPMENT												
							728	1,131				1,131	
318	COMPUTER SOFTWARE												
					13,500		8,000						
321	TRAVEL, TRAINING & SUBSISTENCE												
	3,482		4,852		7,780		7,700	11,990				11,990	
328	MEALS & RELATED EXPENSE												
	65												
341	COMMUNICATIONS EXPENSE												
	31,577		33,902		45,000		44,000	46,000				46,000	
351	UTILITIES EXPENSE												
	245,004		261,611		290,000		270,000	290,000				290,000	
361	UNIFORMS & SPECIAL CLOTHING												
	3,358		3,494		6,000		5,500	7,200				7,200	
381	BUILDING EXPENSE												
	9		6,429		20,000		15,000	20,000				20,000	
419	CHEMICAL & LABORATORY SUPPLIES												
	31,391		32,870		50,000		50,000	66,000				66,000	
425	DUMPING EXPENSES												
	35				500		700	500				500	
441	LINE MAINTENANCE												
	33,246		32,348		75,000		72,000	38,000				38,000	
461	SPECIAL EXPENSE												
			54		800		800	1,000				1,000	

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0743 WATER SYSTEM QUALITY

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 307 MEMBERSHIP FEES
  - NW AWWA SUBSECTION AND INDIVIDUAL AWWA MEMBERSHIP ( 5 @ \$228) \$1,140
  - OHA DIST TREAT RENEWAL (2 COMBINATION@210) \$420
  - STATE FIRE MARSHALL HAZARDOUS MATERIALS PERMIT SITES 2 @ \$3400 EACH \$6,800
  - LIBRARY FOUNTAIN PERMIT \$300
  - OREGON ASSOCIATION OF WATER UTILITIES (SUPERVISOR AND 4 OPERATORS / \$100 EACH) \$500
  - PACIFIC NW SECTION AWWA /OREGON WATER UTILITIES COUNCIL \$2,100
  - OREGON HEALTH AUTHORITY- CROSS CONNECTION SERVICE FEE \$525
  - OHA SPECIALIST AND TESTER RENEWALS 1 COMBINATION@\$305 EACH \$305
  - HOA DUES FOR 2 LOTS FOR RESERVE AT COOPER MTN ASR \$1,451
- 308 PERIODICALS & SUBSCRIPTIONS
  - WATER QUALITY OPERATION AND MAINTENANCE MANUALS \$300
  - WATER TREATMENT MANUALS AND PERIODICALS ADDRESSING NEWEST EPA REGULATIONS \$120
- 317 COMPUTER EQUIPMENT
  - DESKTOP COMPUTER \$760
  - MONITOR (27 INCH) \$219
  - BATTERY BACKUP \$152
- 318 COMPUTER SOFTWARE
  - NO APPROPRIATION REQUESTED
- 321 TRAVEL, TRAINING & SUBSISTENCE
  - MANAGER, SUPERVISOR, LEAD PNWAWWA CONFERENCE-REG, LODGING, TRANS. \$4,200
  - AWWA SHORT SCHOOL TRAINING (3 @ \$290/EACH) \$870
  - AWWA WEBINAR \$220
  - TECHNICAL TRAINING SEMINAR ON INSTRUMENTATION \$1,200
  - OREGON ASSOCIATION OF WATER UTILITIES CONFERENCE (2@\$320/EACH) \$640
  - RECERT CROSS CONN SPECIALIST AND TESTER TRAINING (2@\$255/EA & 1@\$550/EA) \$1,060
  - APWA EXPO (2 @\$1900/EACH) \$3,800
- 328 MEALS & RELATED EXPENSE
  - FY 2017-18 REFLECTS THIS EXPENSE IS ACCOUNTED FOR IN THE PUBLIC WORKS ADMINISTRATION FUND
- 341 COMMUNICATIONS EXPENSE
  - INTERNET CHARGES AND LOCAL EXCHANGE TELEPHONE LINES FOR THE WATER TELEMTRY SYSTEM, \$46,000
- 351 UTILITIES EXPENSE
  - ELECTRICAL POWER EXPENSE TO PGE - ASR 1, ASR 2, ASR 4, FOUR PUMP STATIONS, 23 POWERED PRV STATIONS, FLUORIDE STATION. INCLUDES SOLAR PANEL EXPENSES AND REFLECTS ENERGY SAVINGS \$290,000
- 361 UNIFORMS & SPECIAL CLOTHING
  - RAIN GEAR AND SAFETY GEAR AND PERSONEL PROTECTION GEAR (6 EMPLOYEES @ \$1,200 EA) \$7,200
- 381 BUILDING EXPENSE
  - MISCELLANOUS EXPENSE FOR WATER SITE BUILDINGS/MAINTENANCE \$20,000
- 419 CHEMICAL & LABORATORY SUPPLIES
  - VARIOUS CHEMICALS FOR WATER QUALITY SITES (FLUORIDE, SODIUM HYPOCHLORITE, \$58,000
  - DE-CLOR,VITA-CLOR,WATER TESTING CHEMICAL AND REAGENTS, ETC.) \$8,000
- 425 DUMPING EXPENSES
  - LANDFILL DEBRIS DISPOSAL MISCELLANEOUS PROJECTS \$500
- 441 LINE MAINTENANCE
  - CHLORINE AND FLUORIDE INJECTION EQUIPMENT, RESERVOIRS, PUMPS AND PUMPING RELATED ITEMS \$38,000
- 461 SPECIAL EXPENSE
  - COMMERCIAL DRIVERS LICENSE AND RENEWAL \$200
  - OPERATOR CERTIFICATION TESTING AND PREP \$800

City of Beaverton - Finance  
Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
DEPT: 85 PUBLIC WORKS - OPERATIONS  
PROGRAM: 0743 WATER SYSTEM QUALITY

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
511	PROFESSIONAL SERVICES												
	68,861		66,162		106,600		102,000	208,500		208,500			
536	MAINTENANCE CONTRACTS												
	23,102		23,742		33,500		31,000	49,500		49,500			
551	RENTS AND LEASES												
	616		648		2,984		600	1,000		1,000			
TOTAL CLASS: 10 MATERIALS & SERVICES													
	476,233		489,912		708,629		663,383	800,031		801,482			
CLASS: 15 CAPITAL OUTLAY													
641	VEHICLES												
					92,650		92,650	44,650		44,650			
671	EQUIPMENT												
	40,000		63,776		92,000		92,000	96,600		96,600			
TOTAL CLASS: 15 CAPITAL OUTLAY													
	40,000		63,776		184,650		184,650	141,250		141,250			
CLASS: 25 TRANSFERS													
803	TRSFER TO GENERAL FD-LANDSCAPE												
	69,355		80,215		83,669		83,669	88,269		88,269			
804	TRSFER - OPERATIONS ADMIN												
	197,088		249,697		288,261		288,261	282,373		261,881			
805	TRSFER TO G/F BLDG MAINT												
	20,687		18,448		20,886		20,886	20,972		20,972			
808	TRSFERS TO GIS PGRM (TO ISD FUND 2018-19)												
	101,395		165,166		179,079		179,079	177,421		177,216			
817	TRSFERS TO GARAGE FUND												
	40,360		16,755		52,489		52,489	19,930		19,930			
TOTAL CLASS: 25 TRANSFERS													
	428,885		530,281		624,384		624,384	588,965		568,268			
TOTAL PROGRAM: 0743 WATER SYSTEM QUALITY													
	1,380,791	3.50	1,559,225	3.50	2,212,066	5.50	2,079,472	2,311,838	5.50	2,259,139	5.50		
TOTAL DEPARTMENT: 85 PUBLIC WORKS - OPERATIONS													
	9,230,522	16.25	8,662,551	16.25	20,202,882	19.00	11,251,888	25,107,642	19.00	27,243,735	19.00		
TOTAL FUND: 501 WATER FUND													
	12,171,591	20.69	13,304,795	21.69	27,710,497	26.88	16,363,821	32,711,776	26.13	32,900,749	27.63		

**BP WORKSHEET & JUSTIFICATION**

FUND: 501 WATER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0743 WATER SYSTEM QUALITY

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

511 PROFESSIONAL SERVICES

- TEST, REPAIR AND REPLACE (METERS, MOTORS, PUMPS, ETC) \$20,000
- CERTIFIED LABORATORY WATER QUALITY TESTING (EPA REGULATION) \$65,000
- TELEMETRY CONTROLLED MAINTENANCE & CALIBRATION \$18,000
- VIBRATION TESTING OF PUMPS AND MOTORS \$2,000
- COVERALL CLEANING \$500
- CALIBRATION FOR WATER GAUGES AND WATER LINE LOCATING EQUIPMENT \$4,000
- TELEMETRY REPAIR / LABOR \$4,000
- OVERFLOW INSPECTION OF WATERLINE PROJECTS \$95,000

536 MAINTENANCE CONTRACTS

- ELECTRIC BACK-UP GENERATORS AT WATER SITES, TESTING (5 @ \$1,500) \$7,500
- GENERATOR REPAIR \$4,000
- HACH ON-LINE ANALYZER, MAINTENANCE AND CALIBRATION ON ALL HACH EQUIPMENT \$28,000
- CONTINUED CONTRACT WITH (ECOSCONNECT LLC) BACKFLOW \$10,000

551 RENTS AND LEASES

- MISCELLANEOUS EQUIPMENT RENTAL \$1,000

641 VEHICLES

- 1 - NEW ADDITIONAL TRANSIT VAN (PRV, ARV REPAIR) COST INCLUDES LIGHTING AND SHELVES, CARGO PARTITION AND LICENSING \$44,650

671 EQUIPMENT

- REPLACE AGING TELEMETRY EQUIPMENT AT 4 SITES @ \$24,150 EACH \$96,600
- ON-GOING UPGRADES AT 27 SITES - 50% COMPLETED

803 TRSFR TO GENERAL FD-LANDSCAPE

- ALLOCATION OF LANDSCAPE MAINTENANCE SERVICES PROVIDED BY THE GENERAL FUND \$88,269

804 TRSFR - OPERATIONS ADMIN

- ALLOCATION OF SERVICES PROVIDED BY THE OPERATIONS ADMINISTRATION FUND. \$261,881

805 TRSFR TO G/F BLDG MAINT

- ALLOCATION OF BUILDING MAINTENANCE SERVICES PROVIDED BY THE GENERAL FUND \$20,972

808 TRSFRS TO GIS PGRM (TO ISD FUND 2018-19)

- ALLOCATION OF GEOGRAPHIC INFORMATION SERVICES \$177,216

817 TRSFRS TO GARAGE FUND

- ALLOCATION OF FLEET SERVICES (FUEL AND MAINTENANCE) PROVIDED BY THE GARAGE FUND \$19,930

**ESTIMATE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
501-72	CAPITAL DEVELOPMNT-ENGINEERING											
501-72-0740-05-046	PRINCIPAL ENGINEER	0.40	864			55,079				55,074	26,385	81,459
501-72-0740-05-068	ENGINEERING ASSOCIATE	1.00	688			26,536				26,536	18,434	44,970
501-72-0740-05-084	PROJECT ENGINEER 1	2.50	5,103			234,982				234,983	96,699	331,682
501-72-0740-05-124	ENGINEERING CONST INSPECTOR	0.40	832	24		26,636	1,138		108	27,884	17,401	45,285
501-72-0740-05-175	PROJECT ENGINEER 2	1.00	2,121			111,888				111,888	63,750	175,638
501-72-0740-05-221	SUPPORT SPECIALIST 2	0.50	1,041	8		25,245	296			25,537	11,191	36,728
	ENTERPRISE MGMT & ADMIN	5.80	10,649	32		480,366	1,434		108	481,902	233,860	715,762
	**** DEPARTMENT TOTAL ****	5.80	10,649	32		480,366	1,434		108	481,902	233,860	715,762

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**ESTIMATE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
501-85	PUBLIC WORKS - OPERATIONS											
501-85-0742-05-057	PUBLIC WORKS SUPERVISOR	1.00	2,116	28		82,033	1,784			83,817	50,375	134,192
501-85-0742-05-112	PUBLIC WORKS MANAGER 3	0.50	1,061			58,080				58,079	33,566	91,645
501-85-0742-05-162	WATER DISTRIBUTION LEAD	1.00	2,243	16		76,383	963		270	77,616	53,305	130,921
501-85-0742-05-173	WATER DISTRIBUTION TECHNICIAN	6.00	7,632	92		185,924	3,411		1,710	191,045	142,672	333,717
501-85-0742-05-209	WATER DISTRIBUTION EQUIP OPER	5.00	10,316	522		299,267	23,688		1,350	324,305	199,384	523,689
	WATER SYSTEM DISTRIBUTION	13.50	23,368	658		701,687	29,846		3,330	734,862	479,302	1,214,164
501-85-0743-05-049	PROG COORDINATOR -PUBLIC	1.00	2,083			70,340			3,870	74,210	28,542	102,752
501-85-0743-05-057	PUBLIC WORKS SUPERVISOR	1.00	2,302	3		94,196	184			94,380	48,306	142,686
501-85-0743-05-112	PUBLIC WORKS MANAGER 3	0.50	1,061			58,080				58,081	33,572	91,653
501-85-0743-05-133	WATER CUSTOMER SERVICE TECH	1.00	2,439	32		68,506	1,334		270	70,110	44,312	114,422
501-85-0743-05-162	WATER DISTRIBUTION LEAD	1.00	2,478	53		81,293	2,660		270	84,223	54,828	139,051
501-85-0743-05-178	WATER QUALITY TECHNICIAN	1.00	344			8,527				8,527	7,964	16,491
	WATER SYSTEM QUALITY	5.50	10,707	88		380,942	4,178		4,410	389,531	217,524	607,055
	**** DEPARTMENT TOTAL ****	19.00	34,075	746		1,082,629	34,024		7,740	1,124,393	696,826	1,821,219

**PROPOSE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
501-72	CAPITAL DEVELOPMNT-ENGINEERING											
501-72-0740-05-046	PRINCIPAL ENGINEER	0.40	885			57,940				57,940	30,102	88,042
501-72-0740-05-068	ENGINEERING ASSOCIATE	1.00	2,096			83,700			270	83,970	56,853	140,823
501-72-0740-05-084	PROJECT ENGINEER 1	2.10	4,415			214,071				214,071	112,633	326,704
501-72-0740-05-123	ENGINEERING TECH 2	0.50	1,048	3		35,128	126		60	35,314	24,579	59,893
501-72-0740-05-175	PROJECT ENGINEER 2	2.00	3,912			214,973				214,973	129,928	344,901
501-72-0740-05-221	SUPPORT SPECIALIST 2	0.50	1,048	10		27,632	389			28,021	13,250	41,271
	ENTERPRISE MGMT & ADMIN	6.50	13,404	13		633,444	515		330	634,289	367,345	1,001,634
	**** DEPARTMENT TOTAL ****	6.50	13,404	13		633,444	515		330	634,289	367,345	1,001,634

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**PROPOSE - PAYROLL EXPENSE BY DEPARTMENT**

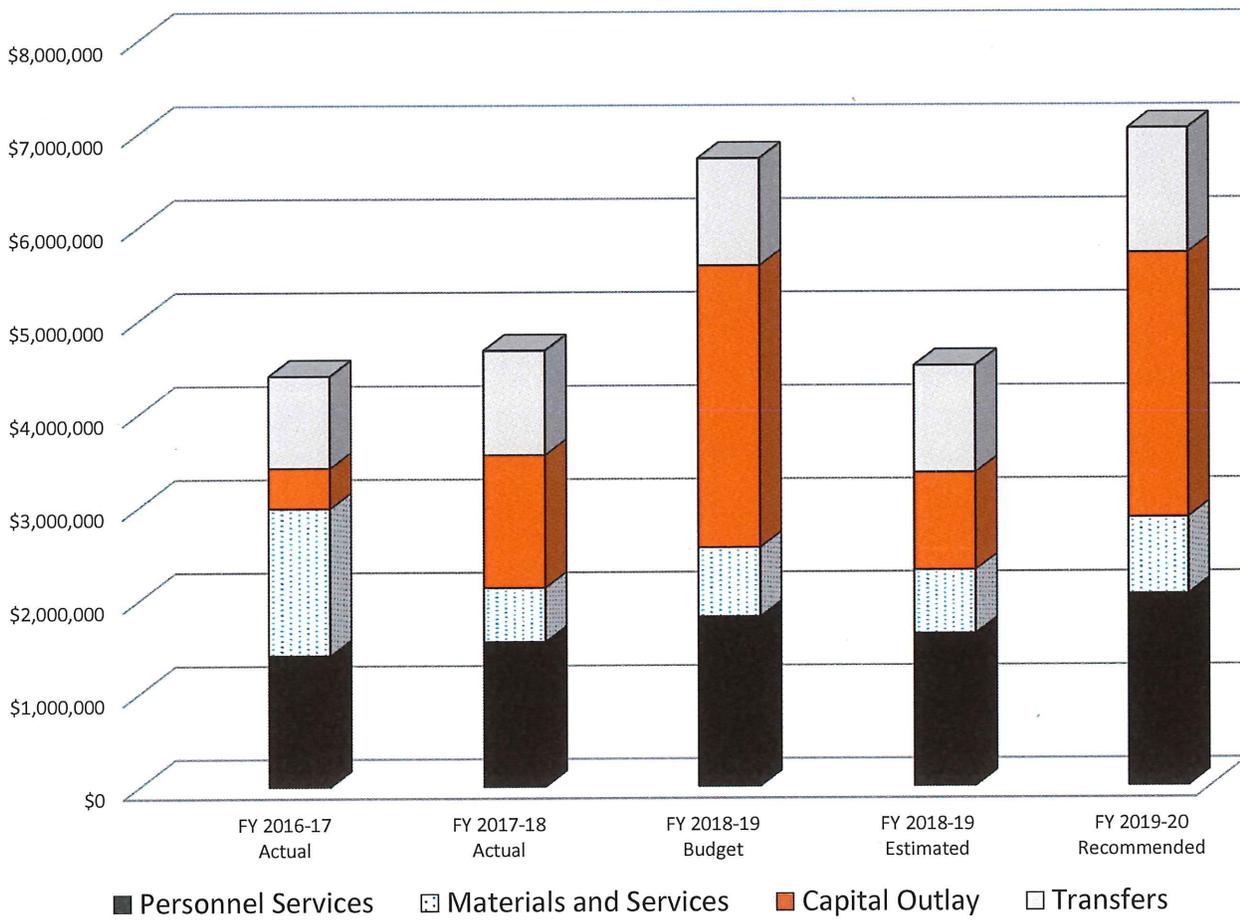
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ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
501-85	PUBLIC WORKS - OPERATIONS											
501-85-0742-05-057	PUBLIC WORKS SUPERVISOR	1.00	2,136	25		89,201	1,499		350	91,050	58,662	149,712
501-85-0742-05-112	PUBLIC WORKS MANAGER 3	0.50	1,088			61,067				61,067	38,638	99,705
501-85-0742-05-162	WATER DISTRIBUTION LEAD	1.00	2,136	30		78,933	1,663		370	80,966	57,280	138,246
501-85-0742-05-173	WATER DISTRIBUTION TECHNICIAN	6.00	12,816	160		331,044	6,335		1,620	338,999	274,645	613,644
501-85-0742-05-209	WATER DISTRIBUTION EQUIP OPER	5.00	10,840	295		321,868	13,368		1,510	336,746	239,443	576,189
	WATER SYSTEM DISTRIBUTION	13.50	29,016	510		882,113	22,865		3,850	908,828	668,668	1,577,496
501-85-0743-05-049	PROG COORDINATOR -PUBLIC	1.00	2,296	25		82,880	1,353		3,930	88,163	36,584	124,747
501-85-0743-05-057	PUBLIC WORKS SUPERVISOR	1.00	2,336	50		98,015	3,147		350	101,512	55,775	157,287
501-85-0743-05-112	PUBLIC WORKS MANAGER 3	0.50	1,088			61,072				61,072	38,646	99,718
501-85-0743-05-133	WATER CUSTOMER SERVICE TECH	1.00	2,256	20		65,594	872		270	66,736	47,759	114,495
501-85-0743-05-162	WATER DISTRIBUTION LEAD	1.00	2,336	125		83,146	6,601		330	90,077	58,645	148,722
501-85-0743-05-178	WATER QUALITY TECHNICIAN	1.00	2,096			54,232			270	54,502	48,668	103,170
	WATER SYSTEM QUALITY	5.50	12,408	220		444,939	11,973		5,150	462,062	286,077	748,139
	**** DEPARTMENT TOTAL ****	19.00	41,424	730		1,327,052	34,838		9,000	1,370,890	954,745	2,325,635

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## SEWER FUND SUMMARY RECOMMENDED FY 19-20



**CITY OF BEAVERTON**

**BUDGET TREND ANALYSIS - FY 2016-17 TO FY 2019-20**

With Explanations on Significant Changes between Budgeted 2018-19 and Recommended 2019-20

Fund:	<b>Sewer - Summary</b>					% Change
CLASS	Actual FY 2016-17	Actual FY 2017-18	Budget FY 2018-19	Estimated FY 2018-19	Recommended FY 2019-20	Budgeted Vs. Recommended
Personnel Services	\$1,405,678	\$1,549,782	\$1,816,019	\$1,632,593	\$2,053,082	13.05%
Materials and Services	1,577,047	581,264	742,451	680,555	821,836	10.69%
Capital Outlay	432,427	1,422,365	3,020,846	1,044,789	2,834,000	-6.19%
Transfers	987,251	1,120,304	1,147,370	1,147,370	1,331,667	16.06%
<b>SUB-TOTAL</b>	<b>\$4,402,403</b>	<b>\$4,673,715</b>	<b>\$6,726,686</b>	<b>\$4,505,307</b>	<b>\$7,040,585</b>	
Contingency			2,197,141		2,363,481	
Contingency - Dedicated			714,203		1,076,648	
Dedicated Surcharges			4,148,064		5,380,665	
Contingency - Equip.			382,776		496,439	
<b>TOTAL</b>	<b>\$4,402,403</b>	<b>\$4,673,715</b>	<b>\$14,168,870</b>	<b>\$4,505,307</b>	<b>\$16,357,818</b>	
<b>FTE's</b>	<b>12.76</b>	<b>13.34</b>	<b>14.17</b>		<b>16.47</b>	

**Explanation of item(s) that are significant (10% and greater than \$10,000):**

**Personnel services:**

FY 2019-20 reflects a net increase of 2.3 FTE consisting of: the transfer of .05 FTE Senior Accountant from the General Fund to the Sewer Fund to more accurately reflect the position's work plan; .5 FTE Engineering Associate; .5 FTE Public Works Lead, & 1.0 FTE Public Works Technician. The Recommended Budget also includes increases, COLA increases for BPA, SEIU, management averaging 2.87% in total, and a 3% VEBA (Voluntary Employees Beneficiary Association Plan) for management and a 1% increase to the VEBA for SEIU. Also shown are an average 0.63% increase in PERS contributions, medical insurance cost increase of 8% for Kaiser, 1.74% increase in MODA plans and 2% increase for Dental.

**Materials and services:**

FY 2019-20 includes a \$34,000 increase in bank service fees due in part to the withdrawal of 4,107 accounts from TVWD and now billed by the City of Beaverton; An increase of \$15,000 for utility locate charges, & \$60,000 for a SDC rate study.

**Capital outlay:**

No significant change

**Transfers:**

FY 2019-20 includes increases in transfers to General , Operations Admin, ISD, Insurance Funds totaling \$184,000.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 502 SEWER	<b>SUMMARY FOR SEWER FUND:</b> INCLUDING: CIP PROJECTS, FINANCE, AND PUBLIC WORKS
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**MISSION STATEMENT:**

To provide a wastewater collection system that functions reliably, is routinely subject to preventive maintenance inspections and repairs, and satisfies all of the requirements of the Clean Water Act and Municipal Code. Provide assistance and recommendations to residents and property owners that experience problems with their private wastewater collection and piping systems. The sanitary sewer system is part of a regional system that relies upon cooperation of Clean Water Services and the other local units of government. As such it operates in a manner consistent with *Council Priority: Foster stronger intergovernmental relations with partner agencies* such as compliance with the Clean Water Act for the benefit of the Tualatin River watershed.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	12.76	13.34	14.17	16.47	0.00
PERSONNEL SERVICES	\$1,405,678	\$1,549,782	\$1,816,019	\$2,053,082	\$0
MATERIALS & SERVICES	1,577,047	581,264	742,451	821,836	0
CAPITAL OUTLAY	432,427	1,422,365	3,020,846	2,834,000	0
TRANSFERS	987,251	1,120,304	1,147,370	1,331,667	0
CONTINGENCY	0	0	7,442,184	9,317,233	0
<b>TOTAL</b>	<b>\$4,402,403</b>	<b>\$4,673,715</b>	<b>\$14,168,870</b>	<b>\$16,357,818</b>	<b>\$0</b>

Funding Sources:	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2019-20
Beginning Working Capital	\$8,075,808	\$8,995,209	\$9,015,970	\$9,363,518	\$0
Permits & Fees	112,880	112,509	125,000	125,000	0
Sewer Service Fees	4,956,232	4,098,239	4,085,000	4,285,000	0
Intergovernmental Revenue	0	0	668,000	2,211,000	0
Miscellaneous Revenues	252,689	483,725	274,900	373,300	0

Sewer Projects:	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2019-20
3811 Sewer Collection System	\$278,501	\$190,745	\$386,194	\$2,211,000	\$0
3812 So. Cooper Mtn Sewer Infra. Proj	0	378,008	962,852	0	0
3813 Area 6B Cooper Mtn Sewer Proj.	0	0	0	100,000	0
3850 Maintenance & Replacement	144,371	307,221	1,297,500	488,000	0

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 502 SEWER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0740 ENTERPRISE MANAGEMENT & ADMIN.	<b>PROGRAM MANAGER:</b> DAVID WINSHIP

**Program Goal:**

Prepare, manage, interpret, and implement the city's sanitary sewer infrastructure master plan and the Capital Improvements Plan/Program (CIP). Preparation and implementation of the CIP includes activities such as problem identification, engineering planning and design, scheduling, and budgeting. This program provides expertise and policy recommendations regarding intergovernmental agreements with Clean Water Services (CWS) and other sanitary sewer/wastewater agencies.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	2.94	2.94	3.44	4.19	0.00
PERSONNEL SERVICES	\$384,523	\$453,871	\$510,254	\$668,118	\$0
MATERIALS & SERVICES	27,271	47,295	59,910	122,488	0
CAPITAL OUTLAY					
TRANSFERS	759	61,027	27,296	18,640	0
<b>TOTAL</b>	<b>\$412,553</b>	<b>\$562,193</b>	<b>\$597,460</b>	<b>\$809,246</b>	<b>\$0</b>

**Program Objective:** Overall responsibility for management and implementation of the multi-year Capital Improvements Plan (CIP), including administration of the Sewer Fund budget, and coordination with Clean Water Services (CWS). Other key objectives include:

- Manage, interpret, and implement the City's sanitary sewer master plan, and prepare the annual update of sewer projects in the CIP.
- Manage the sewer surcharge program that funds the annual capital improvements projects related to sanitary sewer infrastructure that needs rehabilitation or replacement.
- Collaborate with CWS staff and other co-implementer cities on the regional sanitary sewer master plan. Provide expertise regarding the intergovernmental agreements with CWS. Represent the City at the monthly CWS Co-implementer and CIP Coordination meetings.
- Collaborate with City GIS staff and the Public Works Operations division on managing the City's sewer asset database. Support the Operations Division of Public Works in administering the sewer utility locates program and the yearly reporting to CWS.
- Provide expertise on regional and City design standards to the City's Public Works Department and the Site Development Division of CDD. Review all development projects for compliance to design standards and to ensure development improvements work within the existing sanitary sewer system.

**Progress on FY 2018-19 Action Plan:**

**Master Plan Update**

An update of the Sewer Master Plan was finalized (CIP No. 6000) for the entire city to evaluate system needs and requirements into the near future with project verification and identification. In addition, an updated to the South Cooper Mountain sewer master plan was completed and used to provide direction to developers on sewer line sizing and alignments within South Cooper Mountain.

**Capital Improvements Plan**

A list of sanitary sewer projects completed in FY 2018-19 is provided on page XXX.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 502 SEWER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0740 ENTERPRISE MANAGEMENT & ADMIN.	<b>PROGRAM MANAGER:</b> DAVID WINSHIP

**FY 2019-20 Action Plan:**

**Cooper Mountain UGB Expansion Conceptual Engineering**

In December 2018 Metro Council approved an expansion of the urban growth boundary (UGB) that included Urban Reserve 6B. The Community Development Department will be launching the Cooper Mountain Community Plan that will include conceptual engineering to determine what infrastructure will be needed to support development in the expansion area.

**Sanitary Sewer Service Development Charge (SDC) and Rate Study**

Complete an evaluation of the current sewer SDCs and rates to determine whether or not changes need to be made be able to fund future sanitary sewer infrastructure improvements and rehabilitations identified in the updated Sanitary Sewer Master Plan.

**Erickson Sewer Trunk Project**

Design will be finalized and construction will begin on the Erikson Sewer Trunk project that is being funded by Clean Water Services and managed by City Engineering staff.

**Capital Improvements Plan**

Public Works Engineering and Operations Division staff will develop a 10-20 year rehab and replacement plan based on the priorities and recommendations in the updated Sanitary Sewer Master Plan. A list of sanitary sewer projects proposed in FY 2019-20 is provided on page XXX.

<b>Performance Measures:</b>	<b>FY 2016-17 Actual</b>	<b>FY 2017-18 Actual</b>	<b>FY 2018-19 Budgeted</b>	<b>FY 2019-20 Proposed</b>
Number of miles of sanitary sewer collection system (83% 8 inch dia., 17% 12 to 21 inch)	275	275.6	276.5	277.5
Number of sanitary sewer customer accounts served by the City of Beaverton	22,900	22,925	23,145	23,370
Number of miles of public sewer mainlines (6" and greater) replaced or structurally rehabilitated	0.8	0.7	0.6	0.8

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 502 SEWER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0753 SEWER SYSTEM MAINTENANCE	<b>PROGRAM MANAGER:</b> JESSE WILSON

**Program Goal:**

To provide a wastewater collection system that provides a safe and reliable conveyance mechanism for wastewater materials. Complete annual inspections of public wastewater lines to satisfy the requirements of the Clean Water Act. Eliminate wastewater system blockages and overflows by routinely inspecting known problem areas of the lines and by actively managing a program to eliminate the discharge of Fats, Oils and Greases (FOG) into the city's wastewater system.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	6.44	6.60	6.50	7.50	0.00
PERSONNEL SERVICES	\$737,504	\$734,631	\$872,170	\$880,300	\$0
MATERIALS & SERVICES	1,330,351	275,933	310,675	313,468	0
CAPITAL OUTLAY	9,555	469,489	364,300	35,000	0
TRANSFERS	966,439	1,019,422	1,095,047	1,175,444	0
CONTINGENCY	0	0	7,442,184	9,317,233	0
<b>TOTAL</b>	<b>\$3,043,849</b>	<b>\$2,499,475</b>	<b>\$10,084,376</b>	<b>\$11,721,445</b>	<b>\$0</b>

This budget document reflects data reported to Clean Water Services (CWS) and the Department of Environmental Quality (DEQ). Key maintenance activities include cleaning the sanitary sewer collection system with high velocity water pressure, video scanning the trunk lines closed circuit cameras, removing roots through chemical treatment and cutting, assisting citizens with specific problems, and tracking and maintaining data on an asset management system.

**SEWER INVENTORY SUMMARY**

	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20
Linear Feet of Sewer Pipe	1,511,250	1,454,335	1,454,421	1,458,115
Number of Manholes	8,082	7,768	7,779	7,813
Number of Clean-outs	449	461	461	462

Program Objectives:	FY 2016-17 Actual	FY 2017-18 Actual	FY 2018-19 Budgeted/Revised	FY 2019-20 Proposed
Routine Line Cleaning: Clean & remove debris from the sanitary sewer system every 4 years - lineal feet (LF)	365,000	363,585	363,605 / 364,529	364,529
Non-Routine Line Cleaning: Lines that require more frequent cleaning. (roots, flat grade, FOG) - LF	80,000	80,000	80,000 / 80,000	80,000
Video Inspection: Inspection of the sanitary sewer system every 8 years. - LF	188,906	181,795	181,802 / 182,264	182,264
Stream Corridor Surface inspections: Inspect bi-annually manholes (MH) that are off the street, along waterways or with limited access.	251	251	254 / 254	254

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 502 SEWER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0753 SEWER SYSTEM MAINTENANCE	<b>PROGRAM MANAGER:</b> JESSE WILSON

**FY 2019-20 Action Plan:**

As part of the Council Priorities: *Enhance communication to Council about upcoming events - cover the events well and represent at all events*, the Sewer Maintenance section attend several events (Public Works Week, Picnic at the Parks, Big Truck Day) with heavy equipment. Employees engage with residents and educate them on operation activities. Additionally, staff hand out flyers that explain the services staff provide.

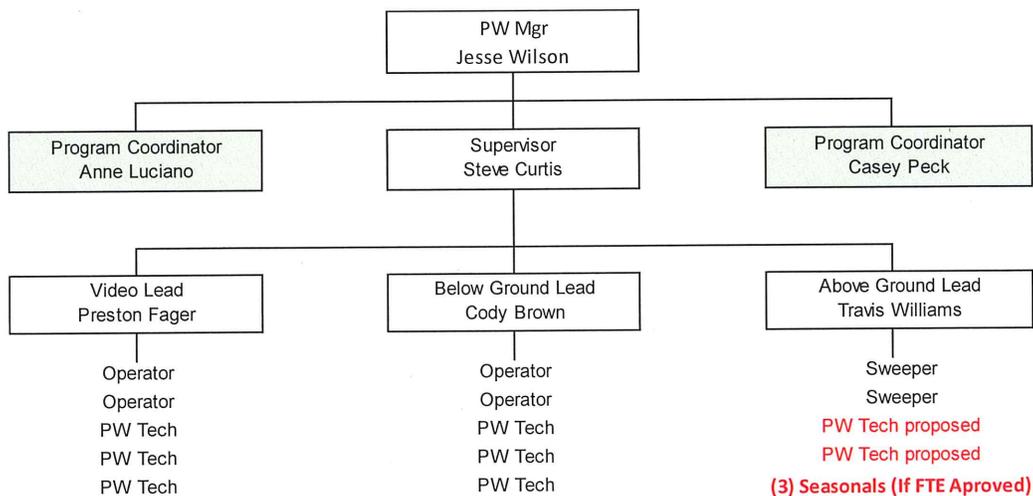
Performance Measures:	FY 2016-17 Actual	FY 2017-18 Actual	FY 2018-19 Budgeted/Revised	FY 2019-20 Proposed
Total footage of sanitary system pipe cleaned per quarter - lineal feet (LF)	91,250	91,000	91,000 / 100,000	110,000
Percent of sanitary system pipe cleaned annually	31%	31%	31% / 31%	31%
Total footage of sanitary system pipe inspected per quarter - LF	47,227	47,300	47,300 / 48,066	48,066
Percent of sanitary system pipe inspected annually	13%	12.5%	12.5% / 12.5%	12.5%
Total number of Stream Corridor Surface inspections	191 MH	133 MH	127 MH / 127 MH	127 MH

**Performance Outcomes and Program Trends:**

Under the National Pollutant Discharge Elimination System (NPDES) permit issued to CWS, the city is obligated by an inter-governmental agreement to clean the entire sanitary sewer system within its corporate boundaries a minimum of every four years and problem lines as necessary. The city must also do video inspections of the system every eight years, utilizing the current nationally recognized pipe scoring system.

Ultimately, the goal is to operate the collection system without having any sewer overflows. In order to eliminate grease related blockages and the maintenance costs associated with grease problems, a FOG program has now been active for more than eight years. The sewer staff contact apartment owners and other businesses as needed in areas with known FOG problems to establish the most effective maintenance frequency for their grease removal device.

## Sewer & Storm Organizational Chart 2018



CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 502 SEWER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0757 SEWER CONSTRUCTION	<b>PROGRAM MANAGER:</b> MARK OLSON

**Program Goal:**

Improve the city's sanitary sewer infrastructure with a cost-effective repair program including line repair, manhole repair and replacement, correction of chronic system problems and other related construction activities. These projects promote city-wide beautification through replacement of deficient underground infrastructure which enhances reliability and reduces sewage overflows.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	1.75	2.17	2.17	2.67	0.00
PERSONNEL SERVICES	\$137,425	\$223,122	\$240,836	\$297,688	\$0
MATERIALS & SERVICES	26,953	58,059	167,200	146,750	0
CAPITAL OUTLAY	0	76,902	10,000	0	0
TRANSFERS	18,390	38,517	23,364	135,932	0
<b>TOTAL</b>	<b>\$182,768</b>	<b>\$396,600</b>	<b>\$441,400</b>	<b>\$580,370</b>	<b>\$0</b>

**Program Objectives:**

Perform structural repairs to improve performance of the sanitary sewer system and to maintain system integrity. Such activities are an essential element in achieving a reliable and compliant underground infrastructure. *Continue to work with CWS by applying their guidelines to our service levels* (Community Partners).

**Progress on FY 2018-19 Action Plan:**

The construction crew continued to repair and replace deficiencies found through maintenance activities to existing infrastructure and complete rehabilitation projects identified by maintenance video inspection and the engineering division.

**FY 2019-20 Action Plan:**

- Work with engineering to develop a 5 year plan for pipe and structural repairs identified by maintenance and the Sewer Master Plan
- Assist in responding to sanitary sewer overflows as needed.

Performance Measures:	FY 2016-17 Actual	FY 2017-18 Actual	FY 2018-19 Budgeted/Revised	FY 2019-20 Proposed
Repairs to existing sewer lines	3	4	3 / 4	3
Rehabilitation project structures	8	5	3 / 4	5
Number of structure repairs per year	79	32	60 / 40	40

**Performance Outcomes and Program Trends:**

This program involves routine construction to rehabilitate, repair, and replace deficient or failing pipes and structures. Perform maintenance repairs as recommended by sewer maintenance video inspection. Perform small projects as identified.

**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 502 SEWER FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 BEGINNING WORKING CAPITAL

301 BEGINNING WORKING CAPITAL

	-8,075,808		-8,995,209		-9,015,970		-9,015,970	-9,015,970		-9,503,372		-9,363,518		
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TOTAL CLASS: 05 BEGINNING WORKING CAPITAL

	-8,075,808		-8,995,209		-9,015,970		-9,015,970	-9,015,970		-9,503,372		-9,363,518		
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CLASS: 15 INTERGOVERNMENTAL REVENUE

329 OTHER INTERGOVERNMENTAL REV

					-668,000			-150,000		-1,967,000		-2,211,000		
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TOTAL CLASS: 15 INTERGOVERNMENTAL REVENUE

					-668,000			-150,000		-1,967,000		-2,211,000		
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CLASS: 20 PERMITS & FEES

357 SEWER CONNECTION FEES

	-112,880		-112,509		-125,000		-78,489	-100,000		-125,000		-125,000		
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TOTAL CLASS: 20 PERMITS & FEES

	-112,880		-112,509		-125,000		-78,489	-100,000		-125,000		-125,000		
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CLASS: 25 SERVICE FEES

363 SEWER SERVICE SALES

	-3,751,420		-2,861,258		-2,885,000		-2,917,613	-2,947,000		-3,035,000		-3,035,000		
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367 UTILITY SURCHARGE

	-1,232,038		-1,266,017		-1,250,000		-997,395	-1,250,000		-1,300,000		-1,300,000		
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369 UTILITY SALES ALLOWANCES

	27,226		29,036		50,000		21,423	50,000		50,000		50,000		
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TOTAL CLASS: 25 SERVICE FEES

	-4,956,232		-4,098,239		-4,085,000		-3,893,585	-4,147,000		-4,285,000		-4,285,000		
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CLASS: 35 MISCELLANEOUS REVENUES

382 SALE OF CITY OR BURA PROPERTY

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 502 SEWER FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD		2019		2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	-9,880		-29,743				-32,225	-5,225								
384	INVESTMENT INTEREST EARNINGS															
	-107,656		-196,658		-196,900		-160,446	-227,300	-265,300		-265,300					
389	MISCELLANEOUS REVENUES															
	-8,475		-67,171				-35	-35								
394	MISC INTEREST EARNINGS															
	-25,562		-26,091		-28,000			-28,000	-28,000		-28,000					
398	SRVS PROVIDED TO OTHER FUNDS															
	-93,061		-159,122		-50,000		-91,955	-100,000	-80,000		-80,000					
399	REIMBURSEMENTS - OTHER															
	-116		-171				-91,078	-91,078								
757	MED/LIFE INS PREM REFUND DISTRIBUTION															
	-7,939		-4,769				-4,217	-4,217								
TOTAL CLASS: 35 MISCELLANEOUS REVENUES																
	-252,689		-483,725		-274,900		-379,956	-455,855	-373,300		-373,300					
TOTAL DEPARTMENT: 03 REVENUE																
	-13,397,609		-13,689,682		-14,168,870		-13,368,000	-13,868,825	-16,253,672		-16,357,818					

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 502 SEWER FUND

DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

046	PRINCIPAL ENGINEER													
	33,040	.25	33,165	.25	34,510	.25	26,775	34,427	36,565	.25	36,215	.25		
051	CITY ENGINEER													
	40,079	.34	42,876	.34	45,188	.34	33,813	45,083	47,038	.34	46,588	.34		
068	ENGINEERING ASSOCIATE													
					18,727	.50		13,267	79,689	1.00	79,689	1.00		
084	PROJECT ENGINEER 1													
	172,982	2.10	199,799	2.10	206,709	2.10	154,901	206,379	216,168	2.10	214,071	2.10		
123	ENGINEERING TECH 2										17,659	.25		
221	SUPPORT SPECIALIST 2													
	11,005	.25	11,860	.25	12,825	.25	9,454	12,772	14,017	.25	14,017	.25		
299	PAYROLL TAXES AND FRINGES										259,879			
	127,417		166,171		192,295		139,067	183,364	241,283					
TOTAL CLASS: 05 PERSONNEL SERVICES														
	384,523	2.94	453,871	2.94	510,254	3.44	364,010	495,292	634,760	3.94	668,118	4.19		

CLASS: 10 MATERIALS & SERVICES

303	OFFICE FURNITURE & EQUIPMENT													
					1,250			1,250						
305	SPECIAL DEPARTMENT SUPPLIES													
		100			400		220	400	400		400			
307	MEMBERSHIP FEES													
	663		160		1,775			1,175	1,375		1,375			
317	COMPUTER EQUIPMENT													
					1,940		951	1,983						
318	COMPUTER SOFTWARE													
		2,000			500			500						
321	TRAVEL, TRAINING & SUBSISTENCE													

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 502 SEWER FUND

DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	1,886		3,464		10,250		1,453	4,000	10,063		10,063			
330	MILEAGE REIMBURSEMENT													
			12		200			200	200		200			
341	COMMUNICATIONS EXPENSE													
	740				125									
361	UNIFORMS & SPECIAL CLOTHING													
			448		450		193	450	450		450			
511	PROFESSIONAL SERVICES													
	23,982		41,111		43,020		33,764	43,020	110,000		110,000			
TOTAL CLASS: 10 MATERIALS & SERVICES														
	27,271		47,295		59,910		36,581	52,978	122,488		122,488			
CLASS: 25 TRANSFERS														
816	TRSFERS TO REPROGRAPHICS FUND													
	759		817		1,387		307	1,387	583		550			
835	TRSFER TO GF, BVTN BLDG OPERATIONS													
			25,834		12,917		10,764	12,917	10,229		10,229			
836	TRSFER TO GF, BVTN BLDG DEBT SVC													
			34,376		12,992		10,827	12,992	7,861		7,861			
TOTAL CLASS: 25 TRANSFERS														
	759		61,027		27,296		21,898	27,296	18,673		18,640			
TOTAL DEPARTMENT: 72 CAPITAL DEVELOPMNT-ENGINEERING														
	412,553	2.94	562,193	2.94	597,460	3.44	422,489	575,566	775,921	3.94	809,246	4.19		

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 502 SEWER FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

049	PROG COORDINATOR -PUBLIC WORKS													
	88,865	1.00		1.00	61,537	1.00	44,105	59,484	82,001	1.00	77,089	1.00		
057	PUBLIC WORKS SUPERVISOR													
	33,734	.75	39,308	.50	41,475	.50	29,281	37,647	38,666	.50	36,097	.50		
112	PUBLIC WORKS MANAGER 3													
	38,446	.34	86,014	.83	90,254	.83	100,935	90,656	87,153	.83	86,307	.83		
170	PUBLIC WORKS LEAD													
	32,189	.50	50,771	.84	55,797	.84	38,389	47,944	68,585	.84	88,722	1.34		
176	PUBLIC WORKS EQUIPMNT OPERATOR													
	174,337	2.50	168,479	2.50	162,451	2.50	115,228	148,489	177,799	2.50	171,459	2.50		
177	PUBLIC WORKS TECHNICIAN													
	151,256	3.00	152,060	3.00	169,126	3.00	119,459	159,869	177,921	3.00	209,174	4.00		
188	INVENTORY CONTROL TECHNICIAN													
	5,502	.10	6,329	.10										
274	SEASONAL WORKFORCE													
	5,515		13,974		33,000		16,566	33,000	33,000		33,000			
275	TEMPORARY EMPLOYEES													
	6,786		45,897		22,000		10,576	10,574						
299	PAYROLL TAXES AND FRINGES													
	338,299		394,921		477,366		302,155	366,024	413,819		476,140			
TOTAL CLASS: 05 PERSONNEL SERVICES														
	874,929	8.19	957,753	8.77	1,113,006	8.67	776,694	953,687	1,078,944	8.67	1,177,988	10.17		

CLASS: 10 MATERIALS & SERVICES

303	OFFICE FURNITURE & EQUIPMENT													
			2,948		1,400		1,028	1,200	900		900			
304	DEPARTMENT EQUIPMENT EXPENSE													
	8,807		9,772		14,000		2,689	8,000	10,000		10,000			
305	SPECIAL DEPARTMENT SUPPLIES													

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 502 SEWER FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	28,452		24,776		30,600		21,099	16,500	27,300		24,800			
307	MEMBERSHIP FEES													
	455		270		300			160	320		320			
317	COMPUTER EQUIPMENT													
	381				3,000		2,735	3,000						
318	COMPUTER SOFTWARE													
	12,177		1,480											
321	TRAVEL, TRAINING & SUBSISTENCE													
	6,918		7,279		7,200		998	5,700	13,213		12,463			
328	MEALS & RELATED EXPENSE													
	705													
351	UTILITIES EXPENSE													
			8		150									
361	UNIFORMS & SPECIAL CLOTHING													
	6,094		5,174		5,550		3,691	3,450	5,610		5,610			
419	CHEMICAL & LABORATORY SUPPLIES													
	332		1,975		2,000		197	1,500	2,000		2,000			
425	DUMPING EXPENSES													
	5,598		1,436		3,000		486	2,000	3,000		2,000			
434	CONSTRUCTION MATERIALS													
	11,310		1,060		35,000		61	10,000	25,000		20,000			
461	SPECIAL EXPENSE													
	77				100		72	100	125		125			
511	PROFESSIONAL SERVICES													
	82,266		81,270		163,955		149,010	155,500	159,000		159,000			
512	CITY RIGHT OF WAY FEES													
	1,191,268		194,006		206,000		149,788	190,000	220,000		220,000			
551	RENTS AND LEASES													
	2,464		2,538		5,620		904	2,500	3,000		3,000			

TOTAL CLASS: 10 MATERIALS & SERVICES

**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 502 SEWER FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	1,357,304		333,992		477,875		332,758	399,610	469,468		460,218			
CLASS: 15 CAPITAL OUTLAY														
641	VEHICLES				324,300		304,921	324,300						
670	ROLLING STOCK								90,000					
671	EQUIPMENT		9,555	546,391	50,000		31,409	49,989	35,000		35,000			
TOTAL CLASS: 15 CAPITAL OUTLAY														
	9,555		546,391		374,300		336,330	374,289	125,000		35,000			
CLASS: 25 TRANSFERS														
801	TRSFR TO GENERAL FD - OVERHEAD		253,271	222,162	241,331		201,109	241,331	261,176		261,176			
802	TRSFR TO GENERAL FD-ACCOUNTING		46,631	28,616	62,355		51,963	62,355	79,528		79,528			
803	TRSFR TO GENERAL FD-LANDSCAPE		13,871	16,043	16,734		13,945	16,734	17,654		17,654			
804	TRSFR - OPERATIONS ADMIN		163,634	134,074	131,538		109,615	131,538	128,851		140,175			
805	TRSFR TO G/F BLDG MAINT		8,775	9,471	8,199		6,833	8,199	8,457		8,457			
808	TRSFRS TO GIS PGRM (TO ISD FUND 2018-19)		84,496	97,453	105,662		88,052	105,662	104,684		104,563			
817	TRSFRS TO GARAGE FUND		117,391	123,957	162,292		64,765	162,292	147,652		147,652			
818	TRSFRS TO ISD-ALLOCATED		153,597	184,126	225,663		188,053	225,663	256,801		256,500			
819	TRSFRS TO INSURANCE FUND		143,163	164,637	164,637		137,198	164,637	205,671		205,671			

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**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 502 SEWER FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
829	TRSFERS TO STORM DRAIN FUND													
												90,000		
840	TRSFER TO INSURANCE FUND, WC													
			77,400											
TOTAL CLASS: 25 TRANSFERS														
	984,829		1,057,939		1,118,411		861,533	1,118,411	1,210,474		1,311,376			
CLASS: 30 FUND BAL/CONTINGENCY/RESERVES														
986	RESERVE - DEDICATED SURCHARGES													
					4,148,064				5,372,552		5,380,665			
991	CONTINGENCY - UNRESERVED													
					2,197,141				2,698,007		2,363,481			
994	RESERVE - SDC													
					714,203				974,350		1,076,648			
996	RESERVE - EQUIPMENT REPLACEMT													
					382,776				496,439		496,439			
TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES														
					7,442,184				9,541,348		9,317,233			
TOTAL DEPARTMENT: 85 PUBLIC WORKS - OPERATIONS														
	3,226,617	8.19	2,896,075	8.77	10,525,776	8.67	2,307,315	2,845,997	12,425,234	8.67	12,301,815	10.17		

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**SEWER FUND - PUBLIC WORKS  
FY 2018-19 ADOPTED**

Code	Position Title	Actual FY 17-18	Adopted FY 18-19	New	Transfer	Reclass	Deleted	Ending FY 18-19
46	PRINCIPAL ENGINEER	0.25	0.25					0.25
49	PROG COORDINATOR -PUBLIC WORKS	1.00	1.00					1.00
51	CITY ENGINEER	0.34	0.34					0.34
57	PUBLIC WORKS SUPERVISOR	0.50	0.50					0.50
68	ENGINEERING ASSOCIATE	0.00	0.50					0.50
84	PROJECT ENGINEER 1	2.10	2.10					2.10
112	PUBLIC WORKS MANAGER 3	0.83	0.83					0.83
123	ENGINEERING TECH 2	0.00	0.00					0.00
170	PUBLIC WORKS LEAD	0.84	0.84					0.84
176	PUBLIC WORKS EQUIPMNT OPERATOR	2.50	2.50					2.50
177	PUBLIC WORKS TECHNICIAN	3.00	3.00					3.00
188	INVENTORY CONTROL TECHNICIAN	0.10	0.00					0.00
221	SUPPORT SPECIALIST 2	0.25	0.25					0.25
	<b>Total</b>	<b>11.71</b>	<b>12.11</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>12.11</b>

**FY 2019-20 PROPOSED**

Code	Position Title	Ending FY 18-19	New	Transfer	Reclass	Deleted	Proposed FY 19-20
46	PRINCIPAL ENGINEER	0.25					0.25
49	PROG COORDINATOR -PUBLIC WORKS	1.00					1.00
51	CITY ENGINEER	0.34					0.34
57	PUBLIC WORKS SUPERVISOR	0.50					0.50
68	ENGINEERING ASSOCIATE	0.50		0.50 <sup>a</sup>			1.00
84	PROJECT ENGINEER 1	2.10					2.10
112	PUBLIC WORKS MANAGER 3	0.83					0.83
123	ENGINEERING TECH 2	0.00		0.25 <sup>b</sup>			0.25
170	PUBLIC WORKS LEAD	0.84	0.50 <sup>c</sup>				1.34
176	PUBLIC WORKS EQUIPMNT OPERATOR	2.50					2.50
177	PUBLIC WORKS TECHNICIAN	3.00	1.00 <sup>d</sup>				4.00
188	INVENTORY CONTROL TECHNICIAN	0.00					0.00
221	SUPPORT SPECIALIST 2	0.25					0.25
	<b>Total</b>	<b>12.11</b>	<b>1.50</b>	<b>0.75</b>	<b>0.00</b>	<b>0.00</b>	<b>14.36</b>

- <sup>a</sup> FY 2019-20 reallocates one Engineering Associate position to more accurately reflect the position's time to 50% each in the Sewer and Storm Drain Funds.
- <sup>b</sup> FY 2019-20 reallocates an Engineering Technician position to more accurately reflect the position's time to 50% in the Water Fund, 25% in the Sewer Fund, and 25% in the Storm Drain Fund.
- <sup>c</sup> FY 2019-20 proposes a new 1 FTE Public Works Lead position that is allocated 50% each in the Sewer Fund and in the Storm Drain Fund.
- <sup>d</sup> FY 2019-20 proposes a new 1 FTE Public Works Technician position.

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 BEGINNING WORKING CAPITAL

301	BEGINNING WORKING CAPITAL												
		8,075,808	8,995,209		9,015,970		9,015,970	9,503,372				9,363,518	

TOTAL CLASS: 05 BEGINNING WORKING CAPITAL

		8,075,808	8,995,209		9,015,970		9,015,970	9,503,372				9,363,518	
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CLASS: 15 INTERGOVERNMENTAL REVENUE

329	OTHER INTERGOVERNMENTAL REV				668,000		150,000	1,967,000				2,211,000	
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TOTAL CLASS: 15 INTERGOVERNMENTAL REVENUE

					668,000		150,000	1,967,000				2,211,000	
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CLASS: 20 PERMITS & FEES

357	SEWER CONNECTION FEES				125,000		100,000	125,000				125,000	
		112,880	112,509										

TOTAL CLASS: 20 PERMITS & FEES

		112,880	112,509		125,000		100,000	125,000				125,000	
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CLASS: 25 SERVICE FEES

363	SEWER SERVICE SALES				2,885,000		2,947,000	3,035,000				3,035,000	
		3,751,420	2,861,258										

367	UTILITY SURCHARGE				1,250,000		1,250,000	1,300,000				1,300,000	
		1,232,038	1,266,017										

369	UTILITY SALES ALLOWANCES				-50,000		-50,000	-50,000				-50,000	
		-27,226	-29,036										

TOTAL CLASS: 25 SERVICE FEES

		4,956,232	4,098,239		4,085,000		4,147,000	4,285,000				4,285,000	
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CLASS: 35 MISCELLANEOUS REVENUES

382	SALE OF CITY OR BURA PROPERTY						5,225						
		9,880	29,743										

384	INVESTMENT INTEREST EARNINGS				196,900		227,300	265,300				265,300	
		107,656	196,658										

389	MISCELLANEOUS REVENUES						35						
		8,475	67,171										

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

301 BEGINNING WORKING CAPITAL

329 OTHER INTERGOVERNMENTAL REV

FY 2018-19 FROM CWS  
 6006 ERICKSON TRUNK UPSIZING PROJECT BUDGETED \$668,000 ESTIMATED \$393.274  
 FY 2019-20 FROM CWS:  
 6006 ERIKSON TRUNK UPSIZING PROJECT (6TH ST - 10TH ST) \$2,211,000

357 SEWER CONNECTION FEES

SDC'S COLLECTED AND SPLIT WITH CLEAN WATER SERVICES (CWS) 96% AND CITIES 4%  
 FY 16-17 DATA IS BASED UPON 19 SINGLE FAMILY RESIDENTIAL UNITS, 350 MULTI FAMILY  
 FAMILY UNITS AND 12 NEW COMMERCIAL BUILDINGS  
 FY 17-18 DATA IS BASED UPON 64 SINGLE FAMILY RESIDENTIAL UNITS, 230 MULTI FAMILY  
 FAMILY UNITS AND 12 NEW COMMERCIAL BUILDINGS  
 FY 18-19 ESTIMATED IS BASED UPON 180 SINGLE FAMILY RESIDENTIAL UNITS, 352 MULTI FAMILY  
 FAMILY UNITS AND 15 NEW COMMERCIAL BUILDINGS  
 FY 19-20 ESTIMATED IS BASED UPON 225 SINGLE FAMILY RESIDENTIAL UNITS, 575 MULTI FAMILY  
 FAMILY UNITS AND 15 NEW COMMERCIAL BUILDINGS \$125,000

363 SEWER SERVICE SALES

CLEAN WATER SERVICES AGENCY SETS THE SEWER RATES FOR THE REGION  
 FY 17-18 REFLECTS A 3% RATE INCREASE WITH CITY RETAINING 16.4% AND CWS PORTION 83.6%  
 FY 18-19 REFLECTS A 3% RATE INCREASE WITH CITY RETAINING 16.4% AND CWS PORTION 83.6%  
 FY 19-20 REFLECTS A 3% RATE INCREASE WITH CITY RETAINING 16.4% AND CWS PORTION 83.6% \$3,035,000

367 UTILITY SURCHARGE

\$2 PER EDU SURCHARGE DEDICATED TO THE SEWER LINE RENEWAL AND REPLACEMENT PROGRAM \$1,300,000

369 UTILITY SALES ALLOWANCES

ADJUSTMENTS TO A CUSTOMER'S WINTER WATER AVERAGE FOR LEAKS, VARIOUS BILLING  
 ADJUSTMENTS, WRITE OFF OF UNCOLLECTIBLE ACCOUNTS, AND NSF HANDLING CHARGES -\$50,000

382 SALE OF CITY OR BURA PROPERTY

SALE OF SURPLUS EQUIPMENT AND VEHICLES

384 INVESTMENT INTEREST EARNINGS

INTEREST EARNINGS IS BASED ON AVAILABLE CASH BALANCES AND INTEREST RATES:  
 FY 16-17 BUDGETED INTEREST EARNINGS ARE BASED UPON .55%  
 FY 17-18 BUDGETED INTEREST EARNINGS ARE BASED UPON 1.10%  
 FY 18-19 BUDGETED INTEREST EARNINGS ARE BASED UPON 1.75% FY 19-20 BUDGETED INTEREST EARNINGS ARE BASED  
 UPON 3.00% \$265,300

389 MISCELLANEOUS REVENUES

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
394	MISC INTEREST EARNINGS												
	25,562		26,091		28,000		28,000	28,000		28,000		28,000	
398	SRVS PROVIDED TO OTHER FUNDS												
	93,061		159,122		50,000		100,000	80,000		80,000		80,000	
399	REIMBURSEMENTS - OTHER												
	116		171				91,078						
757	MED/LIFE INS PREM REFUND DISTRIBUTION												
	7,939		4,769				4,217						
TOTAL CLASS: 35 MISCELLANEOUS REVENUES													
	252,689		483,725		274,900		455,855	373,300		373,300		373,300	
TOTAL PROGRAM: 0000 UNRESTRICTED													
	13,397,609		13,689,682		14,168,870		13,868,825	16,253,672		16,357,818		16,357,818	
TOTAL DEPARTMENT: 03 REVENUE													
	13,397,609		13,689,682		14,168,870		13,868,825	16,253,672		16,357,818		16,357,818	

### BP WORKSHEET & JUSTIFICATION

FUND: 502 SEWER FUND  
DEPT: 03 REVENUE  
PROGRAM: 0000 UNRESTRICTED

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

394	MISC INTEREST EARNINGS REVENUES FROM DELINQUENT CHARGES ASSESSED THROUGH THE CITY'S UTILITY BILLING SYSTEM \$28,000
398	SRVS PROVIDED TO OTHER FUNDS REIMBURSEMENTS RECEIVED FROM OTHER FUNDS FOR PROVIDING IN-HOUSE ENGINEERING AND CAPITAL PROJECT CONSTRUCTION AND UTILITY LOCATE PROGRAM SERVICES. \$80,000
399	REIMBURSEMENTS - OTHER
757	MED/LIFE INS PREM REFUND DISTRIBUTION MODA MEDICAL INSURANCE PREMIUM EXPERIENCE REBATE DISTRIBUTION TO OPERATING FUNDS


City of Beaverton - Finance  
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**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

046	PRINCIPAL ENGINEER												
	33,040	.25	33,165	.25	34,510	.25	34,427	36,565	.25	36,215	.25		
051	CITY ENGINEER												
	40,079	.34	42,876	.34	45,188	.34	45,083	47,038	.34	46,588	.34		
068	ENGINEERING ASSOCIATE												
					18,727	.50	13,267	79,689	1.00	79,689	1.00		
084	PROJECT ENGINEER 1												
	172,982	2.10	199,799	2.10	206,709	2.10	206,379	216,168	2.10	214,071	2.10		
123	ENGINEERING TECH 2												
										17,659	.25		
221	SUPPORT SPECIALIST 2												
	11,005	.25	11,860	.25	12,825	.25	12,772	14,017	.25	14,017	.25		
299	PAYROLL TAXES AND FRINGES												
	127,417		166,171		192,295		183,364	241,283		259,879			

TOTAL CLASS: 05 PERSONNEL SERVICES

	384,523	2.94	453,871	2.94	510,254	3.44	495,292	634,760	3.94	668,118	4.19		
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CLASS: 10 MATERIALS & SERVICES

303	OFFICE FURNITURE & EQUIPMENT												
					1,250		1,250						
305	SPECIAL DEPARTMENT SUPPLIES												
		100		400		400		400		400			
307	MEMBERSHIP FEES												
	663		160		1,775		1,175	1,375		1,375			
317	COMPUTER EQUIPMENT												
					1,940		1,983						
318	COMPUTER SOFTWARE												
		2,000		500		500							
321	TRAVEL, TRAINING & SUBSISTENCE												
	1,886		3,464		10,250		4,000	10,063		10,063			

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 046 PRINCIPAL ENGINEER  
 POSITION IS ALLOCATED .40 FTE 501-72-0740 / .25 FTE 502-72-0740 / .25 FTE 513-72-0740 / AND .10 FTE 001-72-0703.
- 051 CITY ENGINEER  
 POSITION ALLOCATED 34% 502-72-0740, 33% 513-72-0740 AND 33% 101-72-0735.
- 068 ENGINEERING ASSOCIATE  
 FY 2018-19 REFLECTS A NEW 1 FTE ENGINEERING ASSOCIATE ADDED MID-YEAR VIA AGENDA BILL 19046 WHICH IS ALLOCATED 50/50 IN SEWER FUND AND STORM FUND.  
 FY 2019-20 REFLECTS 1 FTE'S ALLOCATION CHANGING FROM 100% IN GENERAL FUND (001-72-0703) TO 50/50 IN SEWER & STORM FUNDS (502-72-0740 / 513-72-0740)
- 084 PROJECT ENGINEER 1
- 123 ENGINEERING TECH 2  
 FY 2019-20 REFLECTS 1 FTE ET2 TRANSFERRED FROM THE GENERAL FUND - ENGINEERING TO 50 / 25 / 25 IN WATER FUND / SEWER FUND / STORM DRAIN FUND - ENTERPRISE MGMT PROGRAM.
- 221 SUPPORT SPECIALIST 2  
 POSITION IS ALLOCATED .50 FTE 501-72-0740 / .25 FTE 502-72-0740 / .25 FTE 513-72-0740.
- 299 PAYROLL TAXES AND FRINGES  
 PAYROLL TAXES AND FRINGE BENEFITS EXPRESSED AS A PERCENTAGE OF SALARY TOTALS 58.14% AS A CITY-WIDE AVERAGE AND CONSISTS OF THE FOLLOWING:  
 34.14% IN PAYROLL TAXES CONSISTING OF 7.65% FICA, AVERAGE OF 23.22% FOR RETIREMENT CONTRIBUTIONS (28.45% PERS. 19.45% OPSRP GENERAL OR 24.08% OPSRP POLICE), AND 3.27% IN OTHER TAXES (UNEMPLOYMENT, LONG TERM DISABILITY, WORKERS COMPENSATION, PEHP, AND TRIMET)  
 24.00% AS THE AVERAGE COST OF MEDICAL, DENTAL, LIFE AND AD&D INSURANCES

- 303 OFFICE FURNITURE & EQUIPMENT  
 FY 2018-19 REFLECTS FURNITURE FOR THE NEW ENGINEERING ASSOCIATE POSITION
- 305 SPECIAL DEPARTMENT SUPPLIES  
 MISCELLANEOUS SUPPLIES AND MATERIALS \$400
- 307 MEMBERSHIP FEES  
 1 - DEQ GRADE 4 WASTEWATER SYSTEM OPR CERT \$300  
 3 - PROFESSIONAL ENGINEER LICENSE RENEWAL (\$200/EA) (AJ, GH, FH) \$600  
 1 - OAWU (OREGON ASSOCIATION OF WATER UTILITIES) \$75  
 3 - AMERICA PUBLIC WORKS ASSOCIATION MEMBERSHIP (\$200EA) (FH, GH) \$400
- 317 COMPUTER EQUIPMENT
- 318 COMPUTER SOFTWARE  
 NO APPROPRIATION REQUESTED
- 321 TRAVEL, TRAINING & SUBSISTENCE  
 TRAVEL EXPENSES FOR CIVIL 3D TRAINING  
 2 - TRAVEL AND TRAINING TO MAINTAIN ENGINEERING LICENSE (2 PROJ ENGS) (AJ, GH) \$1,350  
 1 - TRAVEL AND TRAINING TO MAINTAIN ENGINEERING LICENSE (CITY ENGINEER) \$900  
 2 - AMERICAN PUBLIC WORKS ASSOCIATION CONFERENCE (2 PE) (FH, GH) \$3,000  
 2 - PNWS-AWWA CONFERENCE REGISTRATION AND EXPENSES (\$1,500EA) (2 PE) (GH, FH) \$3,000  
 DEPARTMENTAL PROFESSIONAL DEVELOPMENT \$1,313 1 - TRAINING FOR ASSOCIATE ENGINEER \$500

City of Beaverton - Finance  
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**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
330	MILEAGE REIMBURSEMENT												
			12		200		200	200		200			
341	COMMUNICATIONS EXPENSE												
			740		125								
361	UNIFORMS & SPECIAL CLOTHING												
			448		450		450	450		450		450	
511	PROFESSIONAL SERVICES												
			23,982	41,111	43,020		43,020	110,000		110,000		110,000	
TOTAL CLASS: 10 MATERIALS & SERVICES													
			27,271	47,295	59,910		52,978	122,488		122,488			
CLASS: 25 TRANSFERS													
816	TRSFERS TO REPROGRAPHICS FUND												
			759	817	1,387		1,387	583		550			
835	TRSFER TO GF, BVTN BLDG OPERATIONS												
			25,834		12,917		12,917	10,229		10,229			
836	TRSFER TO GF, BVTN BLDG DEBT SVC												
			34,376		12,992		12,992	7,861		7,861			
TOTAL CLASS: 25 TRANSFERS													
			759	61,027	27,296		27,296	18,673		18,640			
TOTAL PROGRAM: 0740 ENTERPRISE MGMT & ADMIN													
			412,553	2.94	562,193	2.94	597,460	3.44	575,566	775,921	3.94	809,246	4.19
TOTAL DEPARTMENT: 72 CAPITAL DEVELOPMNT-ENGINEERING													
			412,553	2.94	562,193	2.94	597,460	3.44	575,566	775,921	3.94	809,246	4.19

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 330 MILEAGE REIMBURSEMENT  
 USE OF PERSONAL VEHICLE BY CITY ENGINEER FOR CITY BUSINESS \$200
- 341 COMMUNICATIONS EXPENSE  
 FY 2017-18 REFLECTS THIS EXPENSE IS ACCOUNTED FOR IN THE PUBLIC WORKS ADMINISTRATION FUND
- 361 UNIFORMS & SPECIAL CLOTHING  
 3 - RAINGEAR, FOOTWEAR, CLOTHING, JACKETS, HARD HATS, VESTS & SAFETY EQUIP (\$150/EMP) \$450
- 511 PROFESSIONAL SERVICES  
 CONSULTING SERVICES FOR MODELING AND MAPPING OF SMALL PROJECTS \$20,000  
 UTILITY LOCATE CHARGES \$30,000  
 RATE STUDY AND CITY OF BEAVERTON SEWER SDC \$60,000

- 816 TRSFERS TO REPROGRAPHICS FUND  
 ALLOCATION OF COPIER, GRAPHICS, PRINTING, MAILING, & POSTAGE CHARGES THROUGH REPROGRAPHICS \$550
- 835 TRSFR TO GF, BVTN BLDG OPERATIONS  
 FY 18: BEAVERTON BLDG OPERATING EXPENSE ALLOCATION FOR FY16-17 AND FY17-18 (\$12,917/YR.) BEAVERTON BUILDING  
 OPERATING EXPENSE ALLOCATION \$10,229
- 836 TRSFR TO GF, BVTN BLDG DEBT SVC  
 FY 18: BEAVERTON BLDG DEBT SERVICE EXPENSE ALLOCATION FOR FY16-17 AND FY17-18 (\$17,188/YR.) BEAVERTON  
 BUILDING DEBT SERVICE EXPENSE ALLOCATION \$7,861

City of Beaverton - Finance  
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**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0753 SEWER SYSTEM MAINTENANCE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

049	PROG COORDINATOR -PUBLIC WORKS												
	88,865	1.00		1.00	61,537	1.00	59,484	82,001	1.00	77,089	1.00		
057	PUBLIC WORKS SUPERVISOR												
	12,801	.50	39,308	.50	41,475	.50	37,647	38,666	.50	36,097	.50		
112	PUBLIC WORKS MANAGER 3												
	38,446	.34	57,921	.50	59,262	.50	59,673	53,283	.50	52,765	.50		
170	PUBLIC WORKS LEAD												
	32,189	.50	28,885	.50	31,269	.50	30,221	42,483	.50	40,618	.50		
176	PUBLIC WORKS EQUIPMNT OPERATOR												
	139,720	2.00	133,252	2.00	128,048	2.00	115,790	140,775	2.00	136,072	2.00		
177	PUBLIC WORKS TECHNICIAN												
	120,052	2.00	107,902	2.00	120,336	2.00	109,602	121,246	2.00	154,936	3.00		
188	INVENTORY CONTROL TECHNICIAN												
	5,502	.10	6,329	.10									
274	SEASONAL WORKFORCE												
	611		13,974		33,000		33,000	33,000		33,000			
275	TEMPORARY EMPLOYEES												
	6,786		45,897		22,000		10,574						
299	PAYROLL TAXES AND FRINGES												
	292,532		301,163		375,243		274,841	309,942		349,723			

TOTAL CLASS: 05 PERSONNEL SERVICES

	737,504	6.44	734,631	6.60	872,170	6.50	730,832	821,396	6.50	880,300	7.50		
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CLASS: 10 MATERIALS & SERVICES

303	OFFICE FURNITURE & EQUIPMENT												
			2,948		1,400		1,200	900		900			
304	DEPARTMENT EQUIPMENT EXPENSE												
	6,088		6,582		9,000		5,000	5,000		5,000			
305	SPECIAL DEPARTMENT SUPPLIES												
	24,035		22,605		23,100		13,000	19,800		19,800			
307	MEMBERSHIP FEES												
	455		270		300		160	320		320			
317	COMPUTER EQUIPMENT												
	381				3,000		3,000						

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0753 SEWER SYSTEM MAINTENANCE

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 049 PROG COORDINATOR -PUBLIC WORKS
- 057 PUBLIC WORKS SUPERVISOR  
 THIS POSITION IS SPLIT 50/50 IN THE SEWER FUND AND THE STORM DRAIN FUND (513-85-0734)
- 112 PUBLIC WORKS MANAGER 3  
 POSITION FUNDED BY STREET FUND, STORM DRAIN FUND, AND SEWER FUND.  
 FY 17-18 FTE REFLECTS INCREASE DUE TO POSITION REALLOCATION DUE TO REORGANIZATION.
- 170 PUBLIC WORKS LEAD
- 176 PUBLIC WORKS EQUIPMNT OPERATOR
- 177 PUBLIC WORKS TECHNICIAN  
 FY 2019-20 REFLECTS A NEW 1 FTE PW TECH POSITION.
- 188 INVENTORY CONTROL TECHNICIAN  
 FY 2018-19 REFLECTS REDISTRIBUTION OF 1 FTE INVENTORY CONTROL TECH POSITION FROM  
 25% IN 001-85 / 25% IN 101-85 / 25% IN 501-85 / 10% IN 502-85 / 15% IN 513-85 TO 100% IN  
 THE GARAGE FUND.
- 274 SEASONAL WORKFORCE  
 SEASONAL HELP TO ASSIST IN MANHOLE SEALING AND POST AND BRUSH DUTIES
- 275 TEMPORARY EMPLOYEES  
 NO APPROPRIATION REQUESTED
- 299 PAYROLL TAXES AND FRINGES  
 PAYROLL TAXES AND FRINGE BENEFITS EXPRESSED AS A PERCENTAGE OF SALARY  
 TOTALS 58.14% AS A CITY-WIDE AVERAGE AND CONSISTS OF THE FOLLOWING:  
 34.14% IN PAYROLL TAXES CONSISTING OF 7.65% FICA, AVERAGE OF 23.22% FOR  
 RETIREMENT CONTRIBUTIONS (28.45% PERS. 19.45% OPSRP GENERAL OR  
 24.08% OPSRP POLICE), AND 3.27% IN OTHER TAXES (UNEMPLOYMENT,  
 LONG TERM DISABILITY, WORKERS COMPENSATION, PEHP, AND TRIMET)  
 24.00% AS THE AVERAGE COST OF MEDICAL, DENTAL, LIFE AND AD&D INSURANCES

- 303 OFFICE FURNITURE & EQUIPMENT  
 3-OFFICE CHAIRS \$900
- 304 DEPARTMENT EQUIPMENT EXPENSE  
 NOZZLES \$5,000
- 305 SPECIAL DEPARTMENT SUPPLIES  
 VIDEO SUPPLIES \$5,000  
 ROOT CUTTING AND LINE CLEANING SUPPLIES \$1,500  
 TRAFFIC CONTROL DEVICES \$2,000  
 MISC SMALL TOOLS \$1,000  
 HOSE REPLACEMENT FOR JET ROODER (2@1,000) & VACTOR (800') @ \$3.66/FT \$10,300
- 307 MEMBERSHIP FEES  
 DEQ COLLECTION CERTIFICATION (2 @ \$160 EA) \$320
- 317 COMPUTER EQUIPMENT  
 NO APPROPRIATION REQUESTED

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0753 SEWER SYSTEM MAINTENANCE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
318	COMPUTER SOFTWARE												
	12,177		1,480										
321	TRAVEL, TRAINING & SUBSISTENCE												
	3,917		5,576		5,250		4,500	10,663		10,663			
328	MEALS & RELATED EXPENSE												
	508												
351	UTILITIES EXPENSE												
			8		150								
361	UNIFORMS & SPECIAL CLOTHING												
	2,923		3,636		3,600		1,500	3,660		3,660			
419	CHEMICAL & LABORATORY SUPPLIES												
	332		1,975		2,000		1,500	2,000		2,000			
425	DUMPING EXPENSES												
	5,598				1,000		1,000	1,000		1,000			
461	SPECIAL EXPENSE												
	77				100		100	125		125			
511	PROFESSIONAL SERVICES												
	81,360		35,578		53,455		45,000	49,000		49,000			
512	CITY RIGHT OF WAY FEES												
	1,191,268		194,006		206,000		190,000	220,000		220,000			
551	RENTS AND LEASES												
	1,232		1,269		2,320		1,500	1,000		1,000			
TOTAL CLASS: 10 MATERIALS & SERVICES													
	1,330,351		275,933		310,675		267,460	313,468		313,468			
CLASS: 15 CAPITAL OUTLAY													
641	VEHICLES												
					324,300		324,300						
671	EQUIPMENT												
	9,555		469,489		40,000		40,000	35,000		35,000			
TOTAL CLASS: 15 CAPITAL OUTLAY													
	9,555		469,489		364,300		364,300	35,000		35,000			
CLASS: 25 TRANSFERS													
801	TRSFR TO GENERAL FD - OVERHEAD												
	253,271		222,162		241,331		241,331	261,176		261,176			
802	TRSFR TO GENERAL FD-ACCOUNTING												
	46,631		28,616		62,355		62,355	79,528		79,528			

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0753 SEWER SYSTEM MAINTENANCE

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

318	COMPUTER SOFTWARE NO APPROPRIATION REQUESTED
321	TRAVEL, TRAINING & SUBSISTENCE 4 - SHORT SCHOOL AT CLACKAMAS COMMUNITY COLLEGE @ \$225/EA \$900 2 - FALL AWWA CONFERENCE WITH 3 NIGHT STAY (\$700 REGISTRATION + \$1000 T&S) \$1,700 4 - SPRING AWWA CONFERENCE WITH 3 NIGHT STAY (\$1400 REGISTRATION + \$2000 T&S) \$3,400 PACP USER CONFERENCE @ \$800 EACH \$800 2 - JET RODDER REFRESHER @ \$275 EACH \$550 1- APWA SEATTLE CONFERENCE \$2,000 DEPARTMENTAL PROFESSIONAL DEVELOPMENT \$1,313
328	MEALS & RELATED EXPENSE FY 2017-18 REFLECTS THIS EXPENSE IS ACCOUNTED FOR IN THE PUBLIC WORKS ADMINISTRATION FUND
351	UTILITIES EXPENSE
361	UNIFORMS & SPECIAL CLOTHING 6 EMPLOYEES @ \$610/EA \$3,660
419	CHEMICAL & LABORATORY SUPPLIES GASES FOR ATMOSPHERIC TESTERS \$1,500 GREASE AND ROOT ABATEMENT \$500
425	DUMPING EXPENSES LANDFILL DEBRIS DISPOSAL \$1,000
461	SPECIAL EXPENSE COMMERCIAL DRIVERS LICENSE AND RENEWAL \$125
511	PROFESSIONAL SERVICES SPECIALIZED EQUIPMENT REPAIRS OF GAS MONITORS \$2,000 VIDEO CAMERA RELATED EQUIPMENT REPAIR \$12,000 UNDERGROUND UTILITY LOCATES \$35,000
512	CITY RIGHT OF WAY FEES THIS ACCOUNT WAS ESTABLISHED TO ACCOUNT FOR THE PAYMENT IN LIEU OF 5% FRANCHISE FEES TO THE GENERAL FUND. \$220,000
551	RENTS AND LEASES MISC. RENTS AND LEASES \$1,000
641	VEHICLES NO APPROPRIATION REQUESTED
671	EQUIPMENT OPTICAL ZOOM VIDEO CAMERA FOR INSPECTING STORM LINES & TRACTOR. \$35,000
801	TRSFR TO GENERAL FD - OVERHEAD ALLOCATION OF OVERHEAD SERVICES PROVIDED BY THE GENERAL FUND 14.59% OF FY18-19 BUDGETED PERSONNEL SERVICES TOTAL EXPENDITURES \$261,176
802	TRSFR TO GENERAL FD-ACCOUNTING ALLOCATION OF ACCOUNTING SERVICES PROVIDED BY THE GENERAL FUND \$79,528

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**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0753 SEWER SYSTEM MAINTENANCE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
803	TRSFER TO GENERAL FD-LANDSCAPE												
	13,871		16,043		16,734		16,734	17,654		17,654			
804	TRSFER - OPERATIONS ADMIN												
	163,634		134,074		131,538		131,538	128,851		140,175			
805	TRSFER TO G/F BLDG MAINT												
	8,775		9,471		8,199		8,199	8,457		8,457			
808	TRSFERS TO GIS PGRM (TO ISD FUND 2018-19)												
	84,496		97,453		105,662		105,662	104,684		104,563			
817	TRSFERS TO GARAGE FUND												
	99,001		85,440		138,928		138,928	101,720		101,720			
818	TRSFERS TO ISD-ALLOCATED												
	153,597		184,126		225,663		225,663	256,801		256,500			
819	TRSFERS TO INSURANCE FUND												
	143,163		164,637		164,637		164,637	205,671		205,671			
840	TRSFER TO INSURANCE FUND, WC												
			77,400										
TOTAL CLASS: 25 TRANSFERS													
	966,439		1,019,422		1,095,047		1,095,047	1,164,542		1,175,444			
CLASS: 30 FUND BAL/CONTINGENCY/RESERVES													
986	RESERVE - DEDICATED SURCHARGES												
					4,148,064			5,372,552		5,380,665			
991	CONTINGENCY - UNRESERVED												
					2,197,141			2,698,007		2,363,481			
994	RESERVE - SDC												
					714,203			974,350		1,076,648			
996	RESERVE - EQUIPMENT REPLACMT												
					382,776			496,439		496,439			
TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES													
					7,442,184			9,541,348		9,317,233			
TOTAL PROGRAM: 0753 SEWER SYSTEM MAINTENANCE													
	3,043,849	6.44	2,499,475	6.60	10,084,376	6.50	2,457,639	11,875,754	6.50	11,721,445	7.50		

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0753 SEWER SYSTEM MAINTENANCE

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 803 TRSFR TO GENERAL FD-LANDSCAPE  
 ALLOCATION OF LANDSCAPE SERVICES PROVIDED BY THE GENERAL FUND \$17,654
- 804 TRSFR - OPERATIONS ADMIN  
 ALLOCATION OF SERVICES PROVIDED BY THE OPERATIONS ADMINISTRATION FUND \$140,175
- 805 TRSFR TO G/F BLDG MAINT  
 ALLOCATION OF BUILDING MAINTENANCE SERVICES PROVIDED BY THE GENERAL FUND \$8,457
- 808 TRSFRS TO GIS PGRM (TO ISD FUND 2018-19)  
 ALLOCATION OF GEOGRAPHICAL INFORMATION SERVICES \$104,563
- 817 TRSFRS TO GARAGE FUND  
 ALLOCATION OF FLEET SERVICES (FUEL AND MAINTENANCE) PROVIDED BY THE GARAGE FUND \$101,720
- 818 TRSFRS TO ISD-ALLOCATED  
 ALLOCATION OF SERVICES PROVIDED BY THE INFORMATION SYSTEMS FUND \$188,467  
 SOFTWARE MAINTENANCE COSTS - ASSET SYSTEM AND UTILITY BILLING \$65,833  
 ENGINEERING SOFTWARE UPGRADES \$2,200
- 819 TRSFRS TO INSURANCE FUND  
 ALLOCATION OF CHARGES FOR GENERAL LIABILITY AND PROPERTY INSURANCE \$205,671
- 840 TRSFR TO INSURANCE FUND, WC  
 FY 17-18 REFLECTS PRE-FUNDING OF A WORKER'S COMP. CLAIM SETTLEMENT

- 986 RESERVE - DEDICATED SURCHARGES  
 FUTURE REHABILITATION AND REPAIR PROJECTS \$5,380,665
- 991 CONTINGENCY - UNRESERVED
- 994 RESERVE - SDC  
 RESERVE FOR FUTURE CAPACITY IMPROVEMENT PROJECTS AND RENEWAL AND REHAB PROJECTS. \$1,076,648
- 996 RESERVE - EQUIPMENT REPLACEMT  
 RESERVE FOR VEHICLE REPLACEMENT, USED IN OPERATION \$496,439  
 RESERVE FOR VEHICLE REPLACEMENT, USED IN CONSTRUCTION

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0757 SEWER SYSTEM CONSTRUCTION

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

057	PUBLIC WORKS SUPERVISOR												
	20,933	.25											
112	PUBLIC WORKS MANAGER 3												
			28,093	.33	30,992	.33	30,983	33,870	.33	33,542	.33		
170	PUBLIC WORKS LEAD												
			21,886	.34	24,528	.34	17,723	26,102	.34	48,104	.84		
176	PUBLIC WORKS EQUIPMNT OPERATOR												
	34,617	.50	35,227	.50	34,403	.50	32,699	37,024	.50	35,387	.50		
177	PUBLIC WORKS TECHNICIAN												
	31,204	1.00	44,158	1.00	48,790	1.00	50,267	56,675	1.00	54,238	1.00		
274	SEASONAL WORKFORCE												
	4,904												
299	PAYROLL TAXES AND FRINGES												
	45,767		93,758		102,123		91,183	103,877		126,417			

TOTAL CLASS: 05 PERSONNEL SERVICES

	137,425	1.75	223,122	2.17	240,836	2.17	222,855	257,548	2.17	297,688	2.67		
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CLASS: 10 MATERIALS & SERVICES

304	DEPARTMENT EQUIPMENT EXPENSE												
	2,719		3,190		5,000		3,000	5,000		5,000			
305	SPECIAL DEPARTMENT SUPPLIES												
	4,417		2,171		7,500		3,500	7,500		5,000			
321	TRAVEL, TRAINING & SUBSISTENCE												
	3,001		1,703		1,950		1,200	2,550		1,800			
328	MEALS & RELATED EXPENSE												
	197												
361	UNIFORMS & SPECIAL CLOTHING												
	3,171		1,538		1,950		1,950	1,950		1,950			
425	DUMPING EXPENSES												
			1,436		2,000		1,000	2,000		1,000			
434	CONSTRUCTION MATERIALS												
	11,310		1,060		35,000		10,000	25,000		20,000			

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0757 SEWER SYSTEM CONSTRUCTION

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 057 PUBLIC WORKS SUPERVISOR
  - 112 PUBLIC WORKS MANAGER 3  
 POSITION FUNDED 34% STREET FUND, 33% STORM DRAIN FUND, AND 33% SEWER FUND.  
 FY 17-18 FTE REFLECTS INCREASE DUE TO POSITION REALLOCATION DUE TO REORGANIZATION.
  - 170 PUBLIC WORKS LEAD  
 FY 17-18 REFLECTS RECLASSIFICATION OF 1 FTE PW EQUIPMENT OPERATOR IN THE STREET FUND TO  
 1 FTE PW LEAD THAT IS ALLOCATED 33/34/33 IN STREET / SEWER / STORM FUNDS DUE TO  
 REORGANIZATION.  
 FY 19-20 REFLECTS A NEW 1 FTE PW LEAD POSITION THAT IS ALLOCATED 50/50 IN SEWER/STORM  
 FUNDS IN THE CONTRUCTION PROGRAM.
  - 176 PUBLIC WORKS EQUIPMNT OPERATOR  
 POSITION FUNDED: 50% SEWER CONSTRUCTION AND 50% STORM CONSTRUCTION.
  - 177 PUBLIC WORKS TECHNICIAN  
 POSITION FUNDED: 50% SEWER CONSTRUCTION AND 50% STORM CONSTRUCTION.
  - 274 SEASONAL WORKFORCE  
 NO APPROPRIATION REQUESTED
  - 299 PAYROLL TAXES AND FRINGES  
 PAYROLL TAXES AND FRINGE BENEFITS EXPRESSED AS A PERCENTAGE OF SALARY  
 TOTALS 58.14% AS A CITY-WIDE AVERAGE AND CONSISTS OF THE FOLLOWING:  
 34.14% IN PAYROLL TAXES CONSISTING OF 7.65% FICA, AVERAGE OF 23.22% FOR  
 RETIREMENT CONTRIBUTIONS (28.45% PERS. 19.45% OPSRP GENERAL OR  
 24.08% OPSRP POLICE), AND 3.27% IN OTHER TAXES (UNEMPLOYMENT,  
 LONG TERM DISABILITY, WORKERS COMPENSATION, PEHP, AND TRIMET)  
 24.00% AS THE AVERAGE COST OF MEDICAL, DENTAL, LIFE AND AD&D INSURANCES
- 
- 304 DEPARTMENT EQUIPMENT EXPENSE  
 POWER TOOL REPLACEMENT, TRAFFIC SAFETY SUPPLIES & PUMP HOSES \$5,000
  - 305 SPECIAL DEPARTMENT SUPPLIES  
 HAND TOOLS; REPLACEMENT BLADES; CUTTING CHAINS; LOCATE PAINT; PLYWOOD & LUMBER;  
 TRAFFIC CONES AND SIGNS; EROSION CONTROL; BARRICADES; LIFTING STRAPS AND CHAINS. \$5,000
  - 321 TRAVEL, TRAINING & SUBSISTENCE  
 1 - AWWA CONFERENCE REDMOND WITH 3 NIGHT STAY (\$250 REGISTRATION + \$400 T&S) \$550  
 1 - VACTOR TRAINING \$500  
 1 - AWWA CONFERENCE NEWPORT WITH 3 NIGHT STAY (\$250 REGISTRATION + \$500 T&S) \$750
  - 328 MEALS & RELATED EXPENSE  
 FY 2017-18 REFLECTS THIS EXPENSE IS ACCOUNTED FOR IN THE PUBLIC WORKS ADMINSTRATION FUND
  - 361 UNIFORMS & SPECIAL CLOTHING  
 RAIN GEAR, SAFETY GLASSES, GLOVES AND BOOTS \$1,950  
 3 EMPLOYEES AT \$650 EACH
  - 425 DUMPING EXPENSES  
 LANDFILL DEBRIS DISPOSAL \$1,000
  - 434 CONSTRUCTION MATERIALS  
 COLD MIX, CONCRETE, ROCK, STRUCTURES, FITTINGS, PIPE AND POLLUTION CONTROL DEVICES.  
 PIPE AND STRUCTURE REPAIRS FROM CITY WORKS LIST \$20,000

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0757 SEWER SYSTEM CONSTRUCTION

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
511	PROFESSIONAL SERVICES												
	906		45,692		110,500		110,500	110,000		110,000			
551	RENTS AND LEASES												
	1,232		1,269		3,300		1,000	2,000		2,000			
TOTAL CLASS: 10 MATERIALS & SERVICES													
	26,953		58,059		167,200		132,150	156,000		146,750			
CLASS: 15 CAPITAL OUTLAY													
670	ROLLING STOCK												
								90,000					
671	EQUIPMENT												
			76,902		10,000		9,989						
TOTAL CLASS: 15 CAPITAL OUTLAY													
			76,902		10,000		9,989	90,000					
CLASS: 25 TRANSFERS													
817	TRSFERS TO GARAGE FUND												
	18,390		38,517		23,364		23,364	45,932		45,932			
829	TRSFERS TO STORM DRAIN FUND												
										90,000			
TOTAL CLASS: 25 TRANSFERS													
	18,390		38,517		23,364		23,364	45,932		135,932			
TOTAL PROGRAM: 0757 SEWER SYSTEM CONSTRUCTION													
	182,768	1.75	396,600	2.17	441,400	2.17	388,358	549,480	2.17	580,370	2.67		
TOTAL DEPARTMENT: 85 PUBLIC WORKS - OPERATIONS													
	3,226,617	8.19	2,896,075	8.77	10,525,776	8.67	2,845,997	12,425,234	8.67	12,301,815	10.17		
TOTAL FUND: 502 SEWER FUND													
	4,402,403	12.76	4,673,715	13.34	14,168,870	14.17	4,505,307	16,253,672	14.72	16,357,818	16.47		

**BP WORKSHEET & JUSTIFICATION**

FUND: 502 SEWER FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0757 SEWER SYSTEM CONSTRUCTION

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

511 PROFESSIONAL SERVICES  
 PORTABLE RESTROOM SERVICING, STREET CUTTING AND TRUCKING  
 TRAFFIC CONTROL, CORE DRILLING, AND CLEANING COVERALLS  
 MANHOLE SEALING AND ADJUSTMENTS FOR OVERLAYS & MAINTENANCE (40 MANHOLES @ \$2,250) \$90,000  
 TRAFFIC CONTROL FOR MANHOLE ADJUSTMENTS \$10,000  
 TRUCKING 100 HOURS AT \$100 / HOUR \$10,000

551 RENTS AND LEASES  
 MISC. EQUIPMENT RENTAL (EXCAVATOR, FUSION MACHINE, STEEL PLATES, SHORING EQUIPMENT) \$2,000  
 ARCTIC DR SITE NO LONGER LEASED

670 ROLLING STOCK

671 EQUIPMENT  
 NO APPROPRIATION REQUESTED

817 TRSFERS TO GARAGE FUND  
 SERVICES PROVIDED BY THE GARAGE FUND \$45,932

829 TRSFERS TO STORM DRAIN FUND  
 SEWER FUND'S 50% PORTION TO REPLACE 6-507 2004 CATEPILLAR BACKHOE \$90,000

**ESTIMATE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
502-72	CAPITAL DEVELOPMNT-ENGINEERING											
502-72-0740-05-046	PRINCIPAL ENGINEER	0.25	540			34,427				34,427	16,494	50,921
502-72-0740-05-051	CITY ENGINEER	0.34	708			45,083				45,083	24,060	69,143
502-72-0740-05-068	ENGINEERING ASSOCIATE	0.50	344			13,267				13,267	9,216	22,483
502-72-0740-05-084	PROJECT ENGINEER 1	2.10	4,372			206,379				206,379	127,997	334,376
502-72-0740-05-221	SUPPORT SPECIALIST 2	0.25	521	5		12,625	148			12,772	5,597	18,369
	ENTERPRISE MGMT & ADMIN	3.44	6,485	5		311,781	148			311,928	183,364	495,292
	**** DEPARTMENT TOTAL ****	3.44	6,485	5		311,781	148			311,928	183,364	495,292

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**ESTIMATE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
502-85	PUBLIC WORKS - OPERATIONS											
502-85-0753-05-049	PROG COORDINATOR -PUBLIC	1.00	1,975			59,484				59,484	39,803	99,287
502-85-0753-05-057	PUBLIC WORKS SUPERVISOR	0.50	1,071	12		36,931	717			37,647	24,788	62,435
502-85-0753-05-112	PUBLIC WORKS MANAGER 3	0.50	1,241			59,675				59,673	36,713	96,386
502-85-0753-05-170	PUBLIC WORKS LEAD	0.50	969	2		29,995	89		135	30,221	23,322	53,543
502-85-0753-05-176	PUBLIC WORKS EQUIPMNT	2.00	3,995	60		112,879	2,641		270	115,790	65,829	181,619
502-85-0753-05-177	PUBLIC WORKS TECHNICIAN	2.00	4,279	8		108,794	268		540	109,602	75,277	184,879
502-85-0753-05-274	SEASONAL WORKFORCE		1,901			32,990			10	33,000	3,235	36,235
502-85-0753-05-275	TEMPORARY EMPLOYEES		359			10,574				10,574	5,874	16,448
	SEWER SYSTEM MAINTENANCE	6.50	15,790	82		451,321	3,715		955	455,991	274,841	730,832
287 502-85-0757-05-112	PUBLIC WORKS MANAGER 3	0.33	688			30,982				30,983	16,879	47,862
502-85-0757-05-170	PUBLIC WORKS LEAD	0.34	546	2		17,514	119		92	17,723	11,703	29,426
502-85-0757-05-176	PUBLIC WORKS EQUIPMNT	0.50	1,059	17		31,897	670		135	32,699	22,142	54,841
502-85-0757-05-177	PUBLIC WORKS TECHNICIAN	1.00	2,115	36		48,801	1,196		270	50,267	40,459	90,726
	SEWER SYSTEM CONSTRUCTION	2.17	4,408	55		129,194	1,985		497	131,672	91,183	222,855
	**** DEPARTMENT TOTAL ****	8.67	20,197	136		580,515	5,700		1,452	587,663	366,024	953,687

**PROPOSE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
502-72	CAPITAL DEVELOPMNT-ENGINEERING											
502-72-0740-05-046	PRINCIPAL ENGINEER	0.25	554			36,215				36,215	18,813	55,028
502-72-0740-05-051	CITY ENGINEER	0.34	714			46,588				46,588	27,605	74,193
502-72-0740-05-068	ENGINEERING ASSOCIATE	1.00	2,096	10		78,902	517		270	79,689	53,103	132,792
502-72-0740-05-084	PROJECT ENGINEER 1	2.10	4,415			214,071				214,071	141,447	355,518
502-72-0740-05-123	ENGINEERING TECH 2	0.25	524	1		17,566	63		30	17,659	12,291	29,950
502-72-0740-05-221	SUPPORT SPECIALIST 2	0.25	524	5		13,822	195			14,017	6,620	20,637
	ENTERPRISE MGMT & ADMIN	4.19	8,827	16		407,164	775		300	408,239	259,879	668,118
	**** DEPARTMENT TOTAL ****	4.19	8,827	16		407,164	775		300	408,239	259,879	668,118

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**PROPOSE - PAYROLL EXPENSE BY DEPARTMENT**

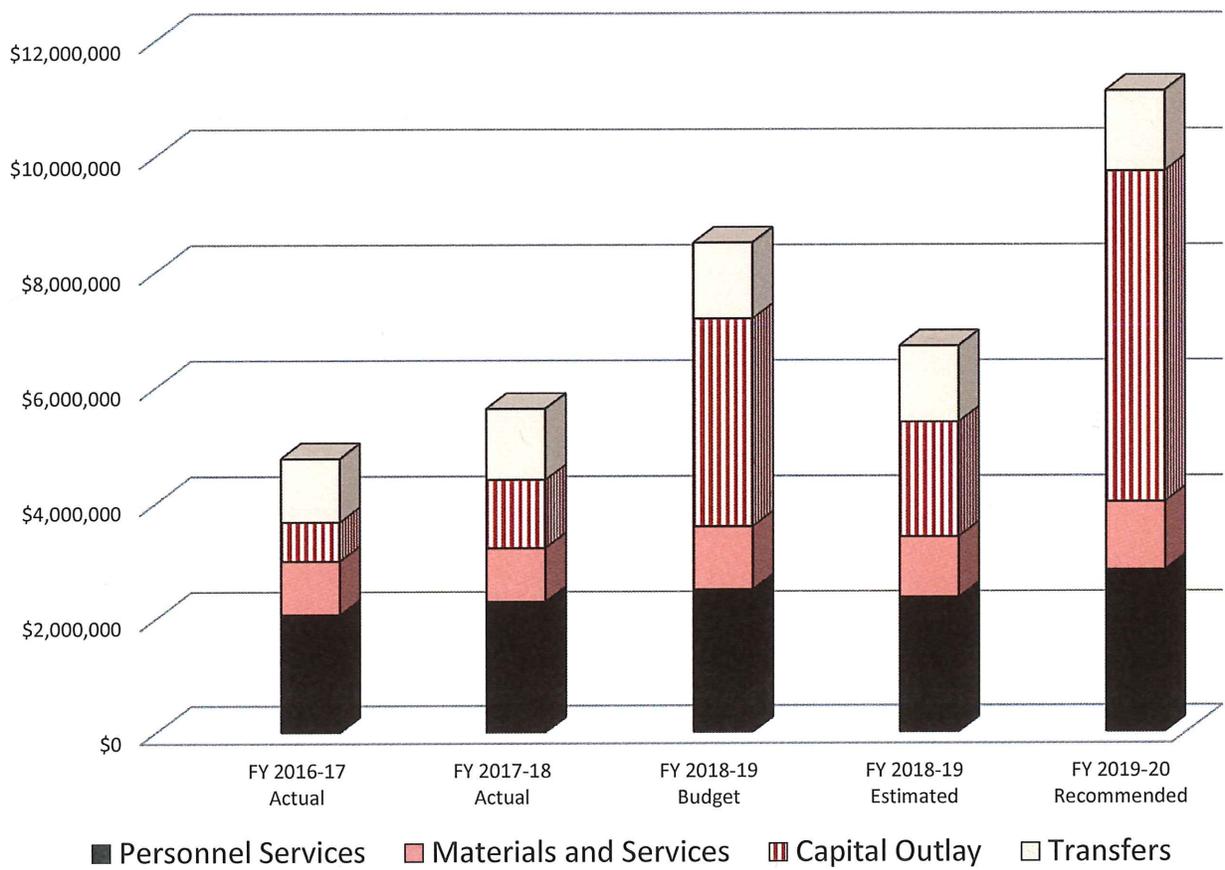
Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
502-85	PUBLIC WORKS - OPERATIONS											
502-85-0753-05-049	PROG COORDINATOR -PUBLIC	1.00	2,346			76,819			270	77,089	51,158	128,247
502-85-0753-05-057	PUBLIC WORKS SUPERVISOR	0.50	1,048	5		35,746	271		80	36,097	26,086	62,183
502-85-0753-05-112	PUBLIC WORKS MANAGER 3	0.50	1,108			52,765				52,765	39,376	92,141
502-85-0753-05-170	PUBLIC WORKS LEAD	0.50	1,188	2		40,339	99		180	40,618	30,067	70,685
502-85-0753-05-176	PUBLIC WORKS EQUIPMNT	2.00	4,482	60		132,757	2,615		700	136,072	80,123	216,195
502-85-0753-05-177	PUBLIC WORKS TECHNICIAN	3.00	6,008	8		153,488	318		1,130	154,936	121,483	276,419
502-85-0753-05-274	SEASONAL WORKFORCE		1,900			32,984			16	33,000	1,430	34,430
	SEWER SYSTEM MAINTENANCE	7.50	18,080	75		524,898	3,303		2,376	530,577	349,723	880,300
502-85-0757-05-112	PUBLIC WORKS MANAGER 3	0.33	691			33,542				33,542	19,910	53,452
502-85-0757-05-170	PUBLIC WORKS LEAD	0.84	1,582			47,860	17		227	48,104	36,102	84,206
502-85-0757-05-176	PUBLIC WORKS EQUIPMNT	0.50	1,108	15		34,550	701		135	35,387	25,040	60,427
502-85-0757-05-177	PUBLIC WORKS TECHNICIAN	1.00	2,116	22		53,140	828		270	54,238	45,365	99,603
	SEWER SYSTEM CONSTRUCTION	2.67	5,497	37		169,092	1,546		632	171,271	126,417	297,688
	**** DEPARTMENT TOTAL ****	10.17	23,577	112		693,990	4,849		3,008	701,848	476,140	1,177,988

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## STORM DRAIN FUND SUMMARY RECOMMENDED FY 19-20



**CITY OF BEAVERTON**

**BUDGET TREND ANALYSIS - FY 2016-17 TO FY 2019-20**

With Explanations on Significant Changes between Budgeted 2018-19 and Recommended 2019-20

**Storm Drain - Summary**

CLASS	Actual		Budget	Estimated	Recommended	% Change
	FY 2016-17	FY 2017-18	FY 2018-19	FY 2018-19	FY 2019-20	Budgeted Vs. Recommended
Personnel Services	\$2,066,849	\$2,290,632	\$2,499,388	\$2,361,796	\$2,833,083	13.35%
Materials and Services	929,275	930,164	1,091,096	1,045,561	1,175,698	7.75%
Capital Outlay	675,336	1,180,881	3,593,150	1,985,001	5,722,350	59.26%
Transfers	1,098,161	1,226,953	1,316,044	1,316,044	1,388,690	5.52%
<b>SUB-TOTAL</b>	<b>\$4,769,621</b>	<b>\$5,628,630</b>	<b>\$8,499,678</b>	<b>\$6,708,402</b>	<b>\$11,119,821</b>	
Contingency			2,631,943		3,521,703	
Reserve - Conveyance			2,121,312		1,880,255	
Reserve - Quality			220,032		80,781	
Reserve - Quantity			676,849		715,897	
Dedicated Surcharges			2,378,683		193,349	
Contingency - Equip.			838,090		973,785	
<b>TOTAL</b>	<b>\$4,769,621</b>	<b>\$5,628,630</b>	<b>\$17,366,587</b>	<b>\$6,708,402</b>	<b>\$18,485,591</b>	
<b>FTE's</b>	<b>19.59</b>	<b>20.17</b>	<b>20.95</b>		<b>22.45</b>	

**Explanation of item(s) that are significant (10% and greater than \$10,000):**

**Personnel services:**

FY 2019-20 reflects a net increase of 1.5 FTE consisting of: a .5 FTE Engineering Associate, .25 FTE Engineering Technician; .5 FTE Public Works Lead, 1 FTE Public Works Technician; the transfer of .05 FTE Senior Accountant from the General Fund to the Sewer Fund to more accurately reflect the position's work plan; the decrease of .4FTE Project Engineer, and .4 Engineering Construction Inspector. Recommended budget also includes step increases, COLA increases for BPA, SEIU, management averaging 2.87% in total, and a 3% VEBA (Voluntary Employees Beneficiary Association Plan) for management and a 1% increase to the VEBA for SEIU. Also shown are an average 0.63% increase in PERS contributions, medical insurance cost increase of 8% for Kaiser, 1.74% increase in MODA plans and 2% increase for Dental.

**Materials and services:**

No Significant Change

**Capital outlay:**

FY 2019-20 includes a \$1.7 million increase to construction mostly in maintenance and replacement projects.

**Transfers:**

No Significant Change

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 513 STORM DRAIN	<b>SUMMARY FOR STORM DRAIN FUND:</b> INCLUDING: CIP PROJECTS, FINANCE, AND PUBLIC WORKS
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**MISSION STATEMENT:**

To provide a surface and storm water collection system that reduces flooding and enhances water quality. Utilize asset management software to inventory, track, schedule and report maintenance activities for the storm drainage and surface water collection system.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	19.59	20.17	20.95	22.45	0.00
PERSONNEL SERVICES	\$2,066,849	\$2,290,632	\$2,499,388	\$2,833,083	\$0
MATERIALS & SERVICES	929,275	930,164	1,091,096	1,175,698	0
CAPITAL OUTLAY	675,336	1,180,881	3,593,150	5,722,350	0
TRANSFERS	1,098,161	1,226,953	1,316,044	1,388,690	0
CONTINGENCY	0	0	8,866,909	7,365,770	0
<b>TOTAL</b>	<b>\$4,769,621</b>	<b>\$5,628,630</b>	<b>\$17,366,587</b>	<b>\$18,485,591</b>	<b>\$0</b>

Funding Sources:	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2019-20
Beginning Working Capital	\$9,537,988	\$10,570,842	\$11,197,637	\$11,173,441	\$0
Storm Sewer Connection Fees	310,229	324,623	240,000	274,000	0
Miscellaneous Revenues	155,056	328,398	222,850	268,450	0
Customer Service Charges	5,334,001	5,595,351	5,693,000	6,675,000	0
Transfers from Other Funds	3,189	7,053	13,100	94,700	0

Storm Drain Projects:	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2019-20
3915 Misc Conveyances (SDC) Proj	21,570	39,837	370,000	1,100,000	0
3916 Misc Quantity (SDC) Project	19,087	1,820	65,000	65,000	0
3917 Misc Quality (SDC) Project	83,609	3,084	100,000	235,000	0
3950 Maintenance & Replacement Proj	318,023	395,003	2,955,000	3,661,000	0

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 513 STORM DRAIN	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0740 ENTERPRISE MANAGEMENT & ADMIN.	<b>PROGRAM MANAGER:</b> DAVID WINSHIP

**PROGRAM GOAL:**

To provide cost-effective storm drainage engineering, planning, and management expertise to improve and maintain the City's existing storm drainage infrastructure. To guide developer/government funded storm drainage infrastructure projects within the City with the intent of preserving and enhancing natural drainage ways (creeks), reducing the frequency of flooding and reducing the cost and frequency of maintenance.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	2.73	2.73	3.23	3.18	0.00
PERSONNEL SERVICES	\$286,094	\$381,768	\$431,975	\$495,709	\$0
MATERIALS & SERVICES	1,101	25,475	35,910	47,940	0
CAPITAL OUTLAY					
TRANSFERS	711	47,553	21,522	17,348	0
<b>TOTAL</b>	<b>\$287,906</b>	<b>\$454,796</b>	<b>\$489,407</b>	<b>\$560,997</b>	<b>\$0</b>

**Program Objectives:**

Manage the spending of the City's four storm water related accounts.

- Miscellaneous Conveyances system development charge account (513-75-3915)
- Miscellaneous Quantity system development account (513-75-3916)
- Miscellaneous Quality system development account (513-75-3917)
- City's local storm drain surcharge account (a.k.a. Maintenance & Replacement program) (513-75-3950)

The storm fund engineering objectives are:

- Collaborate with Public Works Operations staff regarding the status and needs of the storm drainage system, which influence many of the following listed objectives.
- Work in partnership, as a co-implementer, with the larger Washington County Cities and Clean Water Services (CWS), to meet the requirements of the National Pollutant Discharge Elimination System Water Shed-based Waste Discharge Permit issued by the State of Oregon Department of Environmental Quality (DEQ) and add updates to the regional design and construction standards, and the regional maintenance and performance standards.
- Add updates/improvements to the storm drainage sections of the City of Beaverton's Engineering Design Manual which has enhancements to the aforementioned regional standards.
- Participate in public and private development review of the storm drainage elements of all development applications, from the pre-application stage through site development permit issuance. The objective is facilitating development and redevelopment while cost effectively implementing the regional and city's storm drainage infrastructure design standards.
- Contribute to the design of all transportation related projects (State, County, City) within the City.
- Manage the planning, design and construction of storm water projects that repair/replace/rehabilitate/enhance existing facilities or correct existing deficiencies such as, but not limited to, inadequate water quality structures (manholes and catch basins), insufficient flow control structures, pipes and structures inaccessible to maintenance equipment, undersized, deteriorated, and root filled pipes, undersized water quality/ quantity facilities, and untreated drainage basins (outfall retrofit). These projects are shown in the Capital Improvement Plan.
- Manage the planning, design, and construction of storm water projects that reduce the frequency of flooding in areas of the city near mapped and unmapped floodplains. These projects are shown in the Capital Improvement Plan
- Implement plans/policies that minimize the adverse impacts to the existing natural storm drainage system (creeks and streams) and/or improve parts of the existing manmade system (road side ditches and culverts) in the urban growth boundary expansion areas.
- Utilize City owned property to provide storm water treatment facilities where possible. One example is the underground storm water treatment facility project (CIP 8135A) located under the parking lot of the Griffith Drive Building.
- Revise SDC charges to correspond to changes made by CWS in the manner in which the impact of storm water on a construction site is handled through the development process. The Design and Construction Standards were revised to conform to the Oregon DEQ's discharge permit for the Tualatin River Basin issued to CWS.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 513 STORM DRAIN	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0734 STORM DRAIN MAINTENANCE	<b>PROGRAM MANAGER:</b> JESSE WILSON

**Program Goal:**

To provide a storm drainage and surface water collection system that protects the community from flooding and promotes water quality through regular street sweeping, periodic cleaning and inspection of storm lines, removal of debris from the stormwater system, while developing community awareness through cost effective creek and pond enhancement projects in conjunction with community groups and volunteer organizations.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	13.48	13.65	13.50	14.50	0.00
PERSONNEL SERVICES	\$1,462,045	\$1,531,711	\$1,620,812	\$1,812,447	\$0
MATERIALS & SERVICES	713,446	612,128	666,523	727,678	0
CAPITAL OUTLAY	233,047	708,126	103,150	413,350	0
TRANSFERS	1,090,149	1,153,247	1,282,032	1,340,098	0
CONTINGENCY	0	0	8,866,909	7,365,770	0
<b>TOTAL</b>	<b>\$3,498,687</b>	<b>\$4,005,212</b>	<b>\$12,539,426</b>	<b>\$11,659,343</b>	<b>\$0</b>

**STORM DRAINAGE INVENTORY SUMMARY**

	FY 2016-17	FY 2017-18	FY 2018-19*	FY 2019-20
Storm Drain Conduit	1,353,416 lf	1,299,925 lf	1,300,000 lf	1,314,938 lf
Manholes	5,503	5,351	5,370	5,494
Catch Basins	8,209	7,790	7,800	8,058
Water Quality (WQ) Structures	355	340	344	381
Water Quality (WQ) Facilities	146	223	227	296
Storm Detention Pipes	133	153	153	164
Storm Water Filters	94	95	98	107
Street Sweeping (lane miles, and downtown 2X)	482 miles	495 miles	495 miles	510 miles

*\*See Performance Outcomes and Program Trends for explanation*

In accordance with the Code of Federal Regulations (CFR) §122.26, as a large municipal separate storm sewer system (MS4s) the City of Beaverton must obtain a National Pollutant Discharge Elimination System (NPDES) Permit. Over the years the program objectives have evolved to better measure the performance of storm system maintenance activities. This budget document reflects data reported to Clean Water Services (CWS) and the Department of Environmental Quality (DEQ).

The storm drainage maintenance crews have been gathering data during the course of regular maintenance to efficiently create an accurate database for mapping, managing and tracking maintenance activities. Pipe data is collected during video inspection using a scoring system that uniformly scores pipe condition. This aids in making sure that the entire storm system is properly maintained and functional to more efficiently provide water quality, and prevent stream erosion and flooding.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 513 STORM DRAIN	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0734 STORM DRAIN MAINTENANCE	<b>PROGRAM MANAGER:</b> JESSE WILSON

	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20
<b>Program Objectives:</b>	<b>Actual</b>	<b>Actual</b>	<b>Budgeted/Revised</b>	<b>Proposed</b>
Perform maintenance services and inspections to meet regulatory requirements:				
<b>Routine Pipeline Cleaning</b>	225,569	216,654	216,700 / 219,156	219,156
<b>Routine Pipeline Inspection</b>	169,177	162,490	162,500 / 164,367	164,367
<b>Clean sumped catch basins annually</b>	2,997	2,928	2,928 / 3,008	3,008
<b>Clean Water Quality (WQ) Structures</b>	710	682	710 / 762	762
<b>WQ Facilities Maintenance</b>	973	450*	450 / 378	378**
<b>Storm Detention Pipes</b>	124	25*	26 / 26	26
<b>Storm Water Filters Inspected Annually</b>	95	95	97 / 107	107
<b>Sweep curbed public streets</b>	6,266 mi	5,940 mi	5,940 mi / 6,120 mi	6,120 mi

\* Denotes change in permit requirements: WQ facilities 2 times/yr. and as needed. The number of detention pipes decreased from "inspect annually" to "clean on routine pipe schedule or as needed".

\*\* This number dropped because it was counting both facilities and filters.

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

- As part of the *Community Vision Goal: Build Community*, the storm maintenance section worked with CWS, Friends of Trees, volunteers, and property owners on the Fanno Creek enhancement project and Barrows Meadow creek enhancement project. Both projects are large sites which were separated into multiple projects.
- As part of the *Community Vision Goal: Build Community*, staff continued the leaf removal program utilizing drop sites in or near each Neighborhood Association Committee (NAC). Leaf drops offs generated 1,110 of the total 3,720 cubic yards of leaves collected this year. The City encourages citizens to donate canned goods when dropping off leaf debris. This year 5,450 pounds of food was donated to local charities.
- As part of the *Community Vision Goal: Enhance Livability*, the storm maintenance section has been working on pond rehabilitation projects: We have rehabilitated eleven water quality facilities and will be working with the NAC's to schedule mulching projects this spring.

**FY 2019-20 Action Plan:**

- As part of the *Community Vision Goal: Build Community*, the storm maintenance section will work with CWS, Friends of Trees, volunteers and property owners on Fanno Creek (off Denney Road) creek enhancement project and performing maintenance to ensure previous years projects continue to be successful.
- As part of the *Community Vision Goal: Build Community*, The storm maintenance section will continue the leaf removal program at NAC locations around the City.
- As part of the *Community Vision Goal: Enhance Livability*, the storm maintenance section will meet with the NAC's on each of the pond & creek rehabilitation projects: Staff will identify facilities for the next five fiscal years and will be working with the NAC's to coordinate volunteers for different phases of the projects. By getting greater involvement from the NAC's we will increase awareness, develop a sense of community, while enhancing our stormwater treatment facilities and processes.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

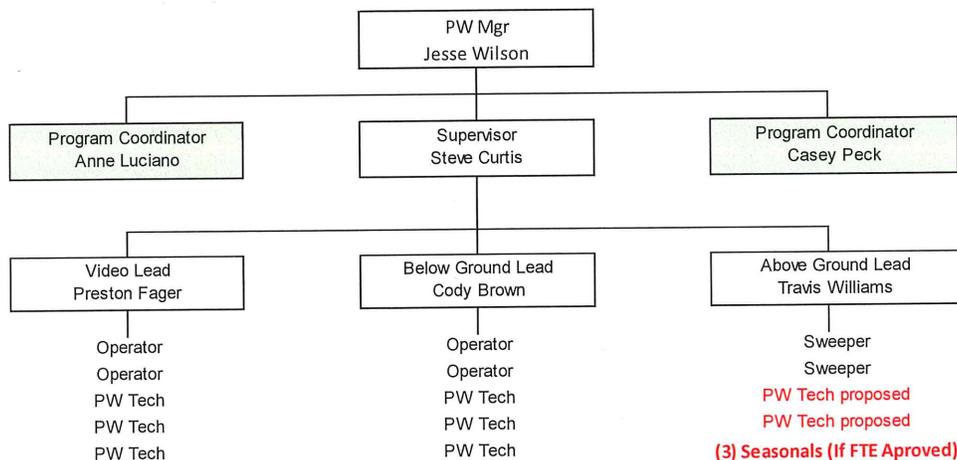
<b>FUND:</b> 513 STORM DRAIN	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0734 STORM DRAIN MAINTENANCE	<b>PROGRAM MANAGER:</b> JESSE WILSON

Performance Measures: *	FY 2016-17 Actual	FY 2017-18 Actual	FY 2018-19 Budgeted/Revised	FY 2019-20 Proposed
Perform maintenance services and inspections to meet regulatory requirements:				
<b>Routine Pipeline Cleaning:</b> amount cleaned per quarter – linear feet (LF)	56,392	54,165	54,175 / 54,789	54,789
<b>Routine Pipeline Inspection:</b> amount inspected per quarter - LF	42,294	40,623	40,625 / 41,842	41,842
<b>Sumped catch basins cleaned per quarter</b>	723	732	739 / 752	752
<b>Clean Water Quality Structures:</b> amount cleaned per quarter	178	171	171 / 191	191
<b>Storm Detention Pipes:</b> number of pipes cleaned per quarter.	31	9	9 / 9	9
<b>Storm Water Filters:</b> number of filters replaced	347	364	366 / 370	370
<b>Material (tons) removed from system</b>	505	500	505 / 505	500
<b>Sweeping material (tons) kept out of system</b>	750	760	770 / 800	800
<b>WQ Facilities Rehabilitated projects:</b>	16	16	11 / 10	10

**Performance Outcomes and Program Trends:**

Storm Drainage maintenance activities are designed to remove trash, dirt and sedimentary material that contain heavy metals and hydrocarbons from the system, reducing the amounts that enter local streams and ultimately the Tualatin River. The sooner you can remove the debris the more efficient the debris removal is; Last year we removed 800 tons of debris through street sweeping. Through other maintenance activities 500 tons of material was removed from storm pipes, catch basins, water quality structures and facilities.

### Sewer & Storm Organizational Chart 2018



CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 513 STORM DRAIN	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0739 STORM CONSTRUCTION	<b>PROGRAM MANAGER:</b> MARK OLSON

**Program Goal:**

Complete improvement projects and repairs to the city's storm and surface water sytem that increase system reliability and/or capacity, reduce flooding potential and include water quality enhancement elements. These projects promote city-wide beautification through replacement of the underground infrastructure.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	1.75	2.16	2.16	2.66	0.00
PERSONNEL SERVICES	\$175,879	\$239,053	\$253,815	\$317,972	\$0
MATERIALS & SERVICES	22,257	92,585	184,000	160,950	0
CAPITAL OUTLAY	0	33,011	0	248,000	0
TRANSFERS	5,639	24,816	10,827	29,593	0
<b>TOTAL</b>	<b>\$203,775</b>	<b>\$389,465</b>	<b>\$448,642</b>	<b>\$756,515</b>	<b>\$0</b>

**Program Objective:**

Complete projects and make structural repairs to improve performance of the storm and surface water drainage system. Install water quality structures that provide better filtration of surface water before it returns to open urban streams. *Continue to work with CWS by applying their guidelines to our service levels (Community Partners).*

**Progress on FY 2018-19 Action Plan:**

- Responded to the needs identified by the maintenance staff and engineering studies regarding deficient inlets and piping system.
- Rehabilitated catch basins, manholes and older water quality structures as identified by inspection.
- Rehabilitated 28 unsumped catch basins to have sump capacity to meet DEQ Permit requirements.

The construction crew worked on smaller rehabilitation storm projects in FY 2017-18. They completed storm drain repairs to the existing system to improve function during storm events.

**FY 2019-20 Action Plan:**

- Work with engineering to develop a 5 year plan for pipe and structural repairs identified by maintenance and the Storm Master Plan
- Rehabilitate three outfalls

Performance Measures:	FY 2016-17 Actual	FY 2017-18 Actual	FY 2018-19 Budgeted/Revised	FY 2019-20 Proposed
Repairs to existing storm lines	6	5	5 / 9	7
Installation of new water quality structures	2	2	3 / 6	3
Catch basin retrofits	35	28	28 / 28	28
Number of structure repairs per year	3	5	5 / 5	5
Rehabilitation projects	64	18	47 / 35	30

**Performance Outcomes and Program Trends:**

This program involves routine construction to rehabilitate, repair, and replace deficient or failing catch basins. Perform maintenance repairs as recommended by storm maintenance video inspection. Perform small projects as identified. Respond during wet weather events.

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 513 STORM DRAIN FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 BEGINNING WORKING CAPITAL

301 BEGINNING WORKING CAPITAL

	-9,537,988		-10,570,842		-11,197,637		-11,197,637	-11,197,637	-11,211,679		-11,173,441			
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TOTAL CLASS: 05 BEGINNING WORKING CAPITAL

	-9,537,988		-10,570,842		-11,197,637		-11,197,637	-11,197,637	-11,211,679		-11,173,441			
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CLASS: 20 PERMITS & FEES

347 STORM WTR DETENTION QUANTITY

	-7,639		-18,991		-20,000		-10,751	-20,000	-20,000		-20,000			
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348 STORM WTR DETENTION QUALITY

	-11,619		-43,943		-20,000		-2,020	-4,000	-4,000		-4,000			
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349 EROSION CONTROL FEES

	-42,775		-89,700		-50,000		-164,465	-200,000	-50,000		-50,000			
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352 STORM WATER CONVEYANCE FEES

	-248,196		-171,989		-150,000		-462,186	-500,000	-200,000		-200,000			
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TOTAL CLASS: 20 PERMITS & FEES

	-310,229		-324,623		-240,000		-639,422	-724,000	-274,000		-274,000			
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CLASS: 25 SERVICE FEES

364 CUSTOMER SERV CHARGES

	-3,960,944		-4,197,933		-4,300,000		-3,417,897	-4,300,000	-4,900,000		-5,200,000			
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367 UTILITY SURCHARGE

	-1,378,852		-1,415,613		-1,400,000		-1,104,484	-1,400,000	-1,400,000		-1,500,000			
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369 UTILITY SALES ALLOWANCES

	5,795		18,195		7,000		16,404	20,000	10,000		25,000			
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TOTAL CLASS: 25 SERVICE FEES

	-5,334,001		-5,595,351		-5,693,000		-4,505,977	-5,680,000	-6,290,000		-6,675,000			
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CLASS: 35 MISCELLANEOUS REVENUES

382 SALE OF CITY OR BURA PROPERTY

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**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 513 STORM DRAIN FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	-2,185		-112,505											
384	INVESTMENT INTEREST EARNINGS													
	-106,376		-171,996		-195,500		-153,639	-235,900	-251,100		-251,100			
389	MISCELLANEOUS REVENUES													
	-25,063		-338				-1,422							
394	MISC INTEREST EARNINGS													
	-6,950		-7,298		-7,350			-7,350	-7,350		-7,350			
398	SRVS PROVIDED TO OTHER FUNDS													
	-5,017		-18,223		-20,000		-5,586	-10,000	-10,000		-10,000			
399	REIMBURSEMENTS - OTHER													
	-191		-13,415					-15,000						
757	MED/LIFE INS PREM REFUND DISTRIBUTION													
	-9,274		-4,623				-2,646	-2,646						
TOTAL CLASS: 35 MISCELLANEOUS REVENUES														
	-155,056		-328,398		-222,850		-163,293	-270,896	-268,450		-268,450			
CLASS: 40 INTERFUND TRANSFERS/LOANS														
417	TRSFERS FROM ASSESSMENT FUND #1													
	-3,189		-7,053		-13,100			-9,310	-4,700		-4,700			
421	TRSFERS FROM SEWER FUND													
											-90,000			
TOTAL CLASS: 40 INTERFUND TRANSFERS/LOANS														
	-3,189		-7,053		-13,100			-9,310	-4,700		-94,700			
TOTAL DEPARTMENT: 03 REVENUE														
	-15,340,463		-16,826,267		-17,366,587		-16,506,329	-17,881,843	-18,048,829		-18,485,591			

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 513 STORM DRAIN FUND

DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

046	PRINCIPAL ENGINEER													
	33,040	.25	33,165	.25	34,510	.25	26,775	34,427	36,565	.25	36,215	.25		
051	CITY ENGINEER													
	38,901	.33	41,612	.33	43,856	.33	32,817	43,758	45,654	.33	45,211	.33		
068	ENGINEERING ASSOCIATE													
					18,726	.50		13,269	79,694	1.00	79,694	1.00		
084	PROJECT ENGINEER 1													
	106,616	1.50	135,991	1.50	141,424	1.50	105,756	141,147	113,214	1.10	112,114	1.10		
123	ENGINEERING TECH 2													
											17,659	.25		
124	ENGINEERING CONST INSPECTOR													
		.40	24,829	.40	26,813	.40	19,836	27,884						
221	SUPPORT SPECIALIST 2													
	11,003	.25	11,858	.25	12,825	.25	9,453	12,772	14,017	.25	14,017	.25		
299	PAYROLL TAXES AND FRINGES													
	96,534		134,313		153,821		110,193	148,353	173,795		190,799			
TOTAL CLASS: 05 PERSONNEL SERVICES														
	286,094	2.73	381,768	2.73	431,975	3.23	304,830	421,610	462,939	2.93	495,709	3.18		

CLASS: 10 MATERIALS & SERVICES

303	OFFICE FURNITURE & EQUIPMENT													
					1,250									
305	SPECIAL DEPARTMENT SUPPLIES													
	202		40		200			50	200		200			
307	MEMBERSHIP FEES													
	265		460		470		270	270	470		470			
317	COMPUTER EQUIPMENT													
					1,575		542							
318	COMPUTER SOFTWARE													

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 513 STORM DRAIN FUND

DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
			2,000		500									
321	TRAVEL, TRAINING & SUBSISTENCE													
	100		2,365		3,000		300	500	1,813		1,500			
328	MEALS & RELATED EXPENSE													
					120		19	100	120		120			
341	COMMUNICATIONS EXPENSE													
					125									
361	UNIFORMS & SPECIAL CLOTHING													
			126		300		284	275	300		300			
511	PROFESSIONAL SERVICES													
	534		20,484		28,020		11,211	13,000	45,000		45,000			
536	MAINTENANCE CONTRACTS													
					350			350	350		350			
301 TOTAL CLASS: 10 MATERIALS & SERVICES														
	1,101		25,475		35,910		12,626	14,545	48,253		47,940			
CLASS: 25 TRANSFERS														
816	TRSFERS TO REPROGRAPHICS FUND													
	711		763		1,387		368	1,387	583		550			
835	TRSFER TO GF, BVTN BLDG OPERATIONS													
			20,076		10,038		8,365	10,038	9,499		9,499			
836	TRSFER TO GF, BVTN BLDG DEBT SVC													
			26,714		10,097		8,414	10,097	7,299		7,299			
TOTAL CLASS: 25 TRANSFERS														
	711		47,553		21,522		17,147	21,522	17,381		17,348			
TOTAL DEPARTMENT: 72 CAPITAL DEVELOPMNT-ENGINEERING														
	287,906	2.73	454,796	2.73	489,407	3.23	334,603	457,677	528,573	2.93	560,997	3.18		

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 513 STORM DRAIN FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

049 PROG COORDINATOR -PUBLIC WORKS

					69,992	1.00	50,038	65,075	76,435	1.00	73,881	1.00		
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057 PUBLIC WORKS SUPERVISOR

	33,733	.75	39,308	.50	41,485	.50	29,280	37,649	38,667	.50	36,102	.50		
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112 PUBLIC WORKS MANAGER 3

	37,313	.33	86,016	.83	90,248	.83	100,935	90,659	87,156	.83	86,313	.83		
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123 ENGINEERING TECH 2

	56,735	1.00	64,408	1.00										
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124 ENGINEERING CONST INSPECTOR

	72,487	1.00	74,622	1.00	72,974	1.00	58,917	79,349	85,283	1.00	82,142	1.00		
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170 PUBLIC WORKS LEAD

	32,189	.50	116,473	1.83	184,159	2.83	125,241	173,538	241,293	2.83	255,727	3.33		
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176 PUBLIC WORKS EQUIPMNT OPERATOR

	372,031	5.50	303,790	4.50	298,063	4.50	203,333	270,076	317,435	4.50	309,107	4.50		
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177 PUBLIC WORKS TECHNICIAN

	315,019	6.00	331,366	6.00	293,582	5.00	207,610	279,091	325,983	5.00	350,255	6.00		
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188 INVENTORY CONTROL TECHNICIAN

	8,252	.15	9,492	.15										
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274 SEASONAL WORKFORCE

	64,436		75,571		75,000		55,187	75,000	85,000		85,000			
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275 TEMPORARY EMPLOYEES

	29,556		9,686		11,200		14,476	8,154						
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299 PAYROLL TAXES AND FRINGES

	616,173		660,032		737,924		539,787	678,011	791,954		851,892			
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TOTAL CLASS: 05 PERSONNEL SERVICES

	1,637,924	15.23	1,770,764	15.81	1,874,627	15.66	1,384,804	1,756,602	2,049,206	15.66	2,130,419	17.16		
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CLASS: 10 MATERIALS & SERVICES

303 OFFICE FURNITURE & EQUIPMENT

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 513 STORM DRAIN FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
			2,948		1,200		827	1,200	1,200		1,200			
304	DEPARTMENT EQUIPMENT EXPENSE													
	12,935		8,396		14,900		8,920	11,900	11,900		10,900			
305	SPECIAL DEPARTMENT SUPPLIES													
	40,067		33,554		39,200		29,040	28,000	32,700		32,700			
307	MEMBERSHIP FEES													
	830		1,400		1,175		500	700	1,115		1,115			
317	COMPUTER EQUIPMENT													
	967				3,000		710	1,500						
318	COMPUTER SOFTWARE													
	12,177		1,480											
321	TRAVEL, TRAINING & SUBSISTENCE													
	7,806		8,725		10,025		6,994	9,200	14,288		14,288			
328	MEALS & RELATED EXPENSE													
	555													
351	UTILITIES EXPENSE													
	4,612		4,619		5,075		2,738	2,400	5,075		5,075			
361	UNIFORMS & SPECIAL CLOTHING													
	3,711		3,889		4,100		4,101	4,100	6,100		6,100			
419	CHEMICAL & LABORATORY SUPPLIES													
			369		259		198	250	250		250			
425	DUMPING EXPENSES													
	94,807		119,258		101,200		139,957	151,000	101,200		151,200			
428	FLOOD CONTROL													
	2,137		1,271		1,500		673	800	1,500		1,500			
433	STORM SEWER MAINTENANCE													
	21,671		13,778		22,000		20,392	22,000	32,000		32,000			
434	CONSTRUCTION MATERIALS													
	12,867		41,260		87,000		27,285	30,000	68,000		50,000			
461	SPECIAL EXPENSE													
	265		112		250		33		250		250			

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 513 STORM DRAIN FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
511	PROFESSIONAL SERVICES													
	185,680		195,621		263,139		169,440	262,500	278,050		285,550			
512	CITY RIGHT OF WAY FEES													
	331,980		265,495		290,000		208,107	275,000	290,000		290,000			
551	RENTS AND LEASES													
	2,636		2,538		6,500		904	2,500	7,500		6,500			
TOTAL CLASS: 10 MATERIALS & SERVICES														
	735,703		704,713		850,523		620,819	803,050	851,128		888,628			
CLASS: 15 CAPITAL OUTLAY														
641	VEHICLES													
					37,650		38,001	38,001	94,500		94,500			
670	ROLLING STOCK													
									476,850		566,850			
671	EQUIPMENT													
	233,047		741,137		65,500		33,825	35,000						
TOTAL CLASS: 15 CAPITAL OUTLAY														
	233,047		741,137		103,150		71,826	73,001	571,350		661,350			
CLASS: 25 TRANSFERS														
801	TRSFR TO GENERAL FD - OVERHEAD													
	330,520		318,887		332,806		277,338	332,806	360,877		360,877			
802	TRSFR TO GENERAL FD-ACCOUNTING													
	46,631		28,616		62,355		51,963	62,355	79,528		79,528			
803	TRSFR TO GENERAL FD-LANDSCAPE													
	13,871		16,043		16,734		13,945	16,734	17,654		17,654			
804	TRSFR - OPERATIONS ADMIN													
	252,722		269,284		237,588		197,990	237,588	232,735		236,520			
805	TRSFR TO G/F BLDG MAINT													
	12,288		14,244		12,398		10,332	12,398	12,467		12,467			

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 513 STORM DRAIN FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
808	TRSFERS TO GIS PGRM (TO ISD FUND 2018-19)													
	84,496		141,672		153,606		128,005	153,606	152,184		152,008			
817	TRSFERS TO GARAGE FUND													
	152,946		153,645		210,406		143,390	210,406	182,756		182,756			
818	TRSFERS TO ISD-ALLOCATED													
	94,268		111,419		142,713		118,928	142,713	172,511		172,565			
819	TRSFERS TO INSURANCE FUND													
	108,046		124,253		124,253		103,544	124,253	155,316		155,316			
TOTAL CLASS: 25 TRANSFERS														
	1,095,788		1,178,063		1,292,859		1,045,435	1,292,859	1,366,028		1,369,691			
CLASS: 30 FUND BAL/CONTINGENCY/RESERVES														
981	RESERVE - STORM SDC CONVEYANCE													
					2,121,312				1,878,736		1,880,255			
984	RESERVE - STORM SDC QUALITY													
					220,032				280,610		80,781			
985	RESERVE - STORM SDC QUANTITY													
					676,849				715,481		715,897			
986	RESERVE - DEDICATED SURCHARGES													
					2,378,683				-760,128		193,349			
991	CONTINGENCY - UNRESERVED													
					2,631,943				3,300,564		3,521,703			
996	RESERVE - EQUIPMENT REPLACEMT													
					838,090				973,785		973,785			
TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES														
					8,866,909				6,389,048		7,365,770			
TOTAL DEPARTMENT: 85 PUBLIC WORKS - OPERATIONS														
	3,702,462	15.23	4,394,677	15.81	12,988,068	15.66	3,122,884	3,925,512	11,226,760	15.66	12,415,858	17.16		

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**STORM DRAIN FUND - PUBLIC WORKS  
FY 2018-19 ADOPTED**

Code	Position Title	Actual FY 17-18	Adopted FY 18-19	New	Transfer	Reclass	Deleted	Ending FY 18-19
46	PRINCIPAL ENGINEER	0.25	0.25					0.25
49	PROG COORDINATOR -PUBLIC WORKS	0.00	1.00					1.00
51	CITY ENGINEER	0.33	0.33					0.33
57	PUBLIC WORKS SUPERVISOR	0.50	0.50					0.50
68	ENGINEERING ASSOCIATE	0.00	0.50					0.50
84	PROJECT ENGINEER 1	1.50	1.50					1.50
112	PUBLIC WORKS MANAGER 3	0.83	0.83					0.83
123	ENGINEERING TECH 2	1.00	0.00					0.00
124	ENGINEERING CONST INSPECTOR	1.40	1.40					1.40
170	PUBLIC WORKS LEAD	1.83	2.83					2.83
176	PUBLIC WORKS EQUIPMNT OPERATOR	4.50	4.50					4.50
177	PUBLIC WORKS TECHNICIAN	6.00	5.00					5.00
188	INVENTORY CONTROL TECHNICIAN	0.15	0.00					0.00
221	SUPPORT SPECIALIST 2	0.25	0.25					0.25
	<b>Total</b>	<b>18.54</b>	<b>18.89</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>18.89</b>

**FY 2019-20 PROPOSED**

Code	Position Title	Ending FY 18-19	New	Transfer	Reclass	Deleted	Proposed FY 19-20
46	PRINCIPAL ENGINEER	0.25					0.25
49	PROG COORDINATOR -PUBLIC WORKS	1.00					1.00
51	CITY ENGINEER	0.33					0.33
57	PUBLIC WORKS SUPERVISOR	0.50					0.50
68	ENGINEERING ASSOCIATE	0.50		0.50 <sup>a</sup>			1.00
84	PROJECT ENGINEER 1	1.50		(0.40) <sup>b</sup>			1.10
112	PUBLIC WORKS MANAGER 3	0.83					0.83
123	ENGINEERING TECH 2	0.00		0.25 <sup>c</sup>			0.25
124	ENGINEERING CONST INSPECTOR	1.40		(0.40) <sup>d</sup>			1.00
170	PUBLIC WORKS LEAD	2.83	0.50 <sup>e</sup>				3.33
176	PUBLIC WORKS EQUIPMNT OPERATOR	4.50					4.50
177	PUBLIC WORKS TECHNICIAN	5.00	1.00 <sup>f</sup>				6.00
188	INVENTORY CONTROL TECHNICIAN	0.00					0.00
221	SUPPORT SPECIALIST 2	0.25					0.25
	<b>Total</b>	<b>18.89</b>	<b>1.50</b>	<b>(0.05)</b>	<b>0.00</b>	<b>0.00</b>	<b>20.34</b>

- <sup>a</sup> FY 2019-20 reallocates one Engineering Associate position to more accurately reflect the position's time to 50% each in the Sewer and Storm Drain Funds.
- <sup>b</sup> FY 2019-20 reallocates one Project Engineer position to more accurately reflect the position's time to 100% in the Street Fund - Traffic & Transportation Management Program.
- <sup>c</sup> FY 2019-20 reallocates an Engineering Technician position to more accurately reflect the position's time to 50% in the Water Fund, 25% in the Sewer Fund, and 25% in the Storm Drain Fund.
- <sup>d</sup> FY 2019-20 reallocates one of the Engineering Construction Inspector positions to more accurately reflect the position's time to 100% in the General Fund - Site Development Program.
- <sup>e</sup> FY 2019-20 proposes a new 1 FTE Public Works Lead position that is allocated 50% each in the Sewer Fund and in the Storm Drain Fund.
- <sup>f</sup> FY 2019-20 proposes a new 1 FTE Public Works Technician position.

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 BEGINNING WORKING CAPITAL

301	BEGINNING WORKING CAPITAL	9,537,988	10,570,842	11,197,637	11,197,637	11,211,679	11,173,441
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TOTAL CLASS: 05 BEGINNING WORKING CAPITAL

		9,537,988	10,570,842	11,197,637	11,197,637	11,211,679	11,173,441
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CLASS: 20 PERMITS & FEES

347	STORM WTR DETENTION QUANTITY	7,639	18,991	20,000	20,000	20,000	20,000
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348	STORM WTR DETENTION QUALITY	11,619	43,943	20,000	4,000	4,000	4,000
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349	EROSION CONTROL FEES	42,775	89,700	50,000	200,000	50,000	50,000
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352	STORM WATER CONVEYANCE FEES	248,196	171,989	150,000	500,000	200,000	200,000
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TOTAL CLASS: 20 PERMITS & FEES

		310,229	324,623	240,000	724,000	274,000	274,000
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CLASS: 25 SERVICE FEES

364	CUSTOMER SERV CHARGES	3,960,944	4,197,933	4,300,000	4,300,000	4,900,000	5,200,000
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367	UTILITY SURCHARGE	1,378,852	1,415,613	1,400,000	1,400,000	1,400,000	1,500,000
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369	UTILITY SALES ALLOWANCES	-5,795	-18,195	-7,000	-20,000	-10,000	-25,000
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TOTAL CLASS: 25 SERVICE FEES

		5,334,001	5,595,351	5,693,000	5,680,000	6,290,000	6,675,000
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CLASS: 35 MISCELLANEOUS REVENUES

382	SALE OF CITY OR BURA PROPERTY	2,185	112,505				
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**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

301 BEGINNING WORKING CAPITAL

347 STORM WTR DETENTION QUANTITY

THE CITY RETAINS 100% OF THE SDC REVENUES (NOT SHARED WITH CWS).  
 FY 16-17 DATA IS BASED UPON 19 SINGLE FAMILY RESIDENTIAL UNITS, 350 MULTI FAMILY  
 FAMILY UNITS AND 12 NEW COMMERCIAL BUILDINGS  
 FY 17-18 DATA IS BASED UPON 64 SINGLE FAMILY RESIDENTIAL UNITS, 230 MULTI FAMILY  
 FAMILY UNITS AND 12 NEW COMMERCIAL BUILDINGS  
 FY 18-19 ESTIMATED IS BASED UPON 180 SINGLE FAMILY RESIDENTIAL UNITS, 352 MULTI FAMILY  
 FAMILY UNITS AND 15 NEW COMMERCIAL BUILDINGS  
 FY 19-20 ESTIMATED IS BASED UPON 225 SINGLE FAMILY RESIDENTIAL UNITS, 575 MULTI FAMILY  
 FAMILY UNITS AND 15 NEW COMMERCIAL BUILDINGS \$20,000

348 STORM WTR DETENTION QUALITY

REFER TO DESCRIPTION IN ACCOUNT 347 STORM WATER DETENTION QUANTITY ABOVE \$4,000

349 EROSION CONTROL FEES

REFER TO DESCRIPTION IN ACCOUNT 347 STORM WATER DETENTION QUANTITY ABOVE \$50,000

352 STORM WATER CONVEYANCE FEES

REFER TO DESCRIPTION IN ACCOUNT 347 STORM WATER DETENTION QUANTITY ABOVE \$200,000

364 CUSTOMER SERV CHARGES

CLEAN WATER SERVICES SET THE STORM WATER MANAGEMENT RATES FOR THE REGION  
 FY 16-17 REFLECTS A CWS BASE CHARGE OF \$7.75 PER ESU AND RETAINS THE SAME REVENUE  
 SPLIT BETWEEN THE CITY (75%) AND CWS (25%)  
 FY 17-18 REFLECTS A CWS BASE CHARGE OF \$8.25 PER ESU AND RETAINS THE SAME REVENUE  
 SPLIT BETWEEN THE CITY (75%) AND CWS (25%)  
 FY 18-19 REFLECTS A CWS BASE CHARGE OF \$8.75 PER ESU AND RETAINS THE SAME REVENUE  
 SPLIT BETWEEN THE CITY (75%) AND CWS (25%)  
 FY 19-20 REFLECTS A CWS BASE CHARGE OF \$9.25 PER ESU AND RETAINS THE SAME REVENUE  
 SPLIT BETWEEN THE CITY (75%) AND CWS (25%) \$5,200,000

367 UTILITY SURCHARGE

THIS LINE ITEM ACCOUNTS FOR THE SEPARATE \$2 PER ESU (EQUIVALENT SERVICE UNIT) AND  
 IS DEDICATED TO MAINTENANCE AND REHABILITATION OF STORM DRAINAGE FACILITIES \$1,500,000

369 UTILITY SALES ALLOWANCES

VARIOUS BILLING ADJUSTMENTS FOR IMPERVIOUS AREA TO CUSTOMER BILLS, WRITE  
 OFF OF UNCOLLECTIBLE ACCOUNTS, WRITE OFF OF DELINQUENT CHARGES, WHEN  
 APPROPRIATE. -\$25,000

382 SALE OF CITY OR BURA PROPERTY

FY 2017-18 REFELCTS THE SALE OF A 2007 TYMCO SWEEPER AND A 2000 VACTOR TRUCK

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
384	INVESTMENT INTEREST EARNINGS												
	106,376		171,996		195,500		235,900	251,100		251,100			
389	MISCELLANEOUS REVENUES												
	25,063		338										
394	MISC INTEREST EARNINGS												
	6,950		7,298		7,350		7,350	7,350		7,350			
398	SRVS PROVIDED TO OTHER FUNDS												
	5,017		18,223		20,000		10,000	10,000		10,000			
399	REIMBURSEMENTS - OTHER												
	191		13,415				15,000						
757	MED/LIFE INS PREM REFUND DISTRIBUTION												
	9,274		4,623				2,646						
TOTAL CLASS: 35 MISCELLANEOUS REVENUES													
	155,056		328,398		222,850		270,896	268,450		268,450			
CLASS: 40 INTERFUND TRANSFERS/LOANS													
417	TRSFERS FROM ASSESSMENT FUND #1												
	3,189		7,053		13,100		9,310	4,700		4,700			
421	TRSFERS FROM SEWER FUND												
												90,000	
TOTAL CLASS: 40 INTERFUND TRANSFERS/LOANS													
	3,189		7,053		13,100		9,310	4,700		94,700			
TOTAL PROGRAM: 0000 UNRESTRICTED													
	15,340,463		16,826,267		17,366,587		17,881,843	18,048,829		18,485,591			
TOTAL DEPARTMENT: 03 REVENUE													
	15,340,463		16,826,267		17,366,587		17,881,843	18,048,829		18,485,591			

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

384	INVESTMENT INTEREST EARNINGS INTEREST EARNINGS IS BASED ON AVAILABLE CASH BALANCES AND INTEREST RATES: FY 16-17 BUDGETED INTEREST EARNINGS ARE BASED UPON .55% FY 17-18 BUDGETED INTEREST EARNINGS ARE BASED UPON 1.10% FY 18-19 BUDGETED INTEREST EARNINGS ARE BASED UPON 1.75% FY 19-20 BUDGETED INTEREST EARNINGS ARE BASED UPON 3.00% \$251,100
389	MISCELLANEOUS REVENUES FY 2016-17 REFLECTS A \$13,480 REIMBURSEMENT FROM VANGUARD MANUFACTURING FOR RIGHT OF WAY
394	MISC INTEREST EARNINGS REVENUES FROM DELINQUENT CHARGES ASSESSED THROUGH THE CITY'S UTILITY BILLING SYSTEM \$7,350
398	SRVS PROVIDED TO OTHER FUNDS REIMBURSEMENTS RECEIVED FROM OTHER FUNDS FOR PROVIDING IN-HOUSE ENGINEERING, CAPITAL PROJECT CONSTRUCTION, AND UTILITY LOCATE PROGRAM SERVICES. \$10,000
399	REIMBURSEMENTS - OTHER FY 2017-18 REFLECTS REIMBURSEMENT FROM CITY OF PORTLAND FOR THE JULY FANNO CREEK SEWAGE SPILL FY 2018-19 DEVELOPER CONTRIBUTION TOWARD MAINTENANCE OF THE STORM MANHOLE AT RALEIGH HILLS FOR 15-20 YEARS
757	MED/LIFE INS PREM REFUND DISTRIBUTION MODA MEDICAL INSURANCE PREMIUM EXPERIENCE REBATE DISTRIBUTION TO OPERATING FUNDS

417	TRSFERS FROM ASSESSMENT FUND #1 7TH STREET LID PROJECT COST REIMBURSEMENT (PROJECT #3950) \$4,700
421	TRSFERS FROM SEWER FUND SEWER FUND'S 50% SHARE OF REPLACING 6-507 2004 CATEPILLAR BACKHOE \$90,000

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

046	PRINCIPAL ENGINEER												
	33,040	.25	33,165	.25	34,510	.25	34,427	36,565	.25	36,215	.25		
051	CITY ENGINEER												
	38,901	.33	41,612	.33	43,856	.33	43,758	45,654	.33	45,211	.33		
068	ENGINEERING ASSOCIATE												
					18,726	.50	13,269	79,694	1.00	79,694	1.00		
084	PROJECT ENGINEER 1												
	106,616	1.50	135,991	1.50	141,424	1.50	141,147	113,214	1.10	112,114	1.10		
123	ENGINEERING TECH 2									17,659	.25		
124	ENGINEERING CONST INSPECTOR												
	.40		24,829	.40	26,813	.40	27,884						
221	SUPPORT SPECIALIST 2												
	11,003	.25	11,858	.25	12,825	.25	12,772	14,017	.25	14,017	.25		
299	PAYROLL TAXES AND FRINGES												
	96,534		134,313		153,821		148,353	173,795		190,799			

TOTAL CLASS: 05 PERSONNEL SERVICES

	286,094	2.73	381,768	2.73	431,975	3.23	421,610	462,939	2.93	495,709	3.18		
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CLASS: 10 MATERIALS & SERVICES

303	OFFICE FURNITURE & EQUIPMENT												
					1,250								
305	SPECIAL DEPARTMENT SUPPLIES												
	202		40		200		50	200		200			
307	MEMBERSHIP FEES												
	265		460		470		270	470		470			
317	COMPUTER EQUIPMENT												
					1,575								
318	COMPUTER SOFTWARE												
			2,000		500								

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 046 PRINCIPAL ENGINEER  
 POSITION IS ALLOCATED .50 FTE 501-72-0740 / .25 FTE 502-72-0740 / .25 FTE 513-72-0740 / AND .10 FTE 001-72-0703.
  - 051 CITY ENGINEER  
 ALLOCATED 34% 502-72-0740, 33% 513-72-0740 AND 33% 101-72-0735.
  - 068 ENGINEERING ASSOCIATE  
 FY 2018-19 REFLECTS A NEW 1 FTE ENGINEERING ASSOCIATE ADDED MID-YEAR VIA AGENDA BILL 19046 WHICH IS ALLOCATED 50/50 IN SEWER FUND AND STORM FUND.  
 FY 2019-20 REFLECTS 1 FTE'S ALLOCATION CHANGING FROM 100% IN GENERAL FUND (001-72-0703) TO 50/50 IN SEWER & STORM FUNDS (502-72-0740 / 513-72-0740)
  - 084 PROJECT ENGINEER 1  
 1 FTE PROJECT ENGINEER 1 POSITION IS ALLOCATED  
 20% 101-72-0735, 40% 501-72-0740, AND 40% 513-72-0740  
 FY 2019-20 REFLECTS 1 FTE PROJECT ENGR 1 POSITION BEING REALLOCATED FROM 20/40/40 IN STREET FUND / WATER FUND / STORM DRAIN FUND TO 100% IN STREET FUND PROGRAM 0735.
  - 123 ENGINEERING TECH 2  
 FY 2019-20 REFLECTS 1 FTE ET2 TRANSFERRED FROM THE GENERAL FUND - ENGINEERING TO 50 / 25 / 25 IN WATER FUND / SEWER FUND / STORM DRAIN FUND - ENTERPRISE MGMT PROGRAM.
  - 124 ENGINEERING CONST INSPECTOR  
 1 FTE ENGINEERING CONSTRUCTION INSPECTOR IS ALLOCATED  
 40% 501-72-0740, 40% 513-72-0740, 20% 101-72-0735  
 FY 2019-20 REFLECTS 1 FTE ENGR CONST INSPECTOR POSITION'S ALLOCATION CHANGING FROM 20/40/40 IN STREET FUND 101-72-0735 / WATER FUND 501-72-0740 / STORM FUND 513-72-0740 TO 100% IN GENERAL FUND (001-70-0701)
  - 221 SUPPORT SPECIALIST 2  
 POSITION IS ALLOCATED .50 FTE 501-72-0740 / .25 FTE 502-72-0740 / .25 FTE 513-72-0740.
  - 299 PAYROLL TAXES AND FRINGES  
 PAYROLL TAXES AND FRINGE BENEFITS EXPRESSED AS A PERCENTAGE OF SALARY TOTALS 58.14% AS A CITY-WIDE AVERAGE AND CONSISTS OF THE FOLLOWING:  
 34.14% IN PAYROLL TAXES CONSISTING OF 7.65% FICA, AVERAGE OF 23.22% FOR RETIREMENT CONTRIBUTIONS (28.45% PERS. 19.45% OPSRP GENERAL OR 24.08% OPSRP POLICE), AND 3.27% IN OTHER TAXES (UNEMPLOYMENT, LONG TERM DISABILITY, WORKERS COMPENSATION, PEHP, AND TRIMET)  
 24.00% AS THE AVERAGE COST OF MEDICAL, DENTAL, LIFE AND AD&D INSURANCES
- 
- 303 OFFICE FURNITURE & EQUIPMENT  
 FY 2018-19 REFLECTS FURNITURE FOR THE NEW ENGINEERING ASSOCIATE POSITION
  - 305 SPECIAL DEPARTMENT SUPPLIES  
 MISCELLANEOUS SUPPLIES AND MATERIALS
  - 307 MEMBERSHIP FEES  
 OREGON PROFESSIONAL ENGINEER BIENNIAL RENEWAL FOR ONE PROJECT ENGINEER  
 AMERICAN SOCIETY OF CIVIL ENGINEERS FOR ONE PROJECT ENGINEER
  - 317 COMPUTER EQUIPMENT
  - 318 COMPUTER SOFTWARE  
 NO APPROPRIATION REQUESTED

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
321	TRAVEL, TRAINING & SUBSISTENCE												
	100		2,365		3,000		500	1,813		1,500			
328	MEALS & RELATED EXPENSE												
					120		100	120		120			
341	COMMUNICATIONS EXPENSE												
					125								
361	UNIFORMS & SPECIAL CLOTHING												
			126		300		275	300		300			
511	PROFESSIONAL SERVICES												
	534		20,484		28,020		13,000	45,000		45,000			
536	MAINTENANCE CONTRACTS												
					350		350	350		350			
TOTAL CLASS: 10 MATERIALS & SERVICES													
	1,101		25,475		35,910		14,545	48,253		47,940			
CLASS: 25 TRANSFERS													
816	TRSFERS TO REPROGRAPHICS FUND												
	711		763		1,387		1,387	583		550			
835	TRSFER TO GF, BVTN BLDG OPERATIONS												
			20,076		10,038		10,038	9,499		9,499			
836	TRSFER TO GF, BVTN BLDG DEBT SVC												
			26,714		10,097		10,097	7,299		7,299			
TOTAL CLASS: 25 TRANSFERS													
	711		47,553		21,522		21,522	17,381		17,348			
TOTAL PROGRAM: 0740 ENTERPRISE MGMT & ADMIN													
	287,906	2.73	454,796	2.73	489,407	3.23	457,677	528,573	2.93	560,997	3.18		
TOTAL DEPARTMENT: 72 CAPITAL DEVELOPMNT-ENGINEERING													
	287,906	2.73	454,796	2.73	489,407	3.23	457,677	528,573	2.93	560,997	3.18		

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING  
 PROGRAM: 0740 ENTERPRISE MGMT & ADMIN

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

321	TRAVEL, TRAINING & SUBSISTENCE PROFESSIONAL DEVELOPMENT (TRAINING) TO MAINTAIN CIVIL ENGINEERING LICENSE DEPARTMENTAL PROFESSIONAL DEVELOPMENT \$1,000 TRAINING FOR ASSOCIATE ENGINEER \$500
328	MEALS & RELATED EXPENSE PROFESSIONAL SOCIETY LUNCH AND DINNER MEETINGS; SPONSORED MEETING WITH CITY/AGENCY TECHNICAL GROUP, PARKING EXPENSE
341	COMMUNICATIONS EXPENSE THIS EXPENSE IS ACCOUNTED FOR IN THE PUBLIC WORKS ADMINISTRATION FUND
361	UNIFORMS & SPECIAL CLOTHING 2 - RAINGEAR, FOOTWEAR, CLOTHING, JACKETS, HARD HATS, VESTS, & SAFETY EQUIP (MB)
511	PROFESSIONAL SERVICES PROFESSIONAL SERVICES FOR STORMWATER MODELING, MAPPING, DOCUMENT REVIEW AND ENGINEERING DESIGN MANUAL UPDATE ASSOCIATED WITH STORMWATER ENGINEERING \$25,000 UTILITY LOCATES \$20,000
536	MAINTENANCE CONTRACTS ANNUAL SOFTWARE MAINTAIN COST FOR FLOWMASTER AND HYDROCAD SPECIALTY SOFTWARE
816	TRSFERS TO REPROGRAPHICS FUND ALLOCATION OF COPIER, GRAPHICS, PRINTING, MAILING, & POSTAGE CHARGES THROUGH REPROGRAPHICS \$550
835	TRFSR TO GF, BVTN BLDG OPERATIONS FY 18: BEAVERTON BLDG OPERATING EXPENSE ALLOCATION FOR FY16-17 AND FY17-18 (\$10,038/YR.) BEAVERTON BLDG OPERATING EXPENSE ALLOCATION \$9,499
836	TRFSR TO GF, BVTN BLDG DEBT SVC FY 18: BEAVERTON BLDG DEBT SERVICE EXPENSE ALLOCATION FOR FY16-17 AND FY17-18 (\$13,357/YR.) BEAVERTON BLDG DEBT SERVICE EXPENSE ALLOCATION \$7,299

City of Beaverton - Finance  
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**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0734 STORM DRAINAGE MAINTENANCE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

049	PROG COORDINATOR -PUBLIC WORKS				69,992	1.00	65,075	76,435	1.00	73,881	1.00		
057	PUBLIC WORKS SUPERVISOR												
	12,801	.50	39,308	.50	41,485	.50	37,649	38,667	.50	36,102	.50		
112	PUBLIC WORKS MANAGER 3												
	37,313	.33	57,923	.50	59,256	.50	59,676	53,286	.50	52,771	.50		
123	ENGINEERING TECH 2												
	56,735	1.00	64,408	1.00									
124	ENGINEERING CONST INSPECTOR												
	72,487	1.00	74,622	1.00	72,974	1.00	79,349	85,283	1.00	82,142	1.00		
170	PUBLIC WORKS LEAD												
	32,189	.50	95,230	1.50	160,351	2.50	156,337	215,958	2.50	208,334	2.50		
176	PUBLIC WORKS EQUIPMNT OPERATOR												
	337,416	5.00	268,563	4.00	263,652	4.00	237,372	280,402	4.00	273,712	4.00		
177	PUBLIC WORKS TECHNICIAN												
	260,226	5.00	275,692	5.00	233,936	4.00	222,095	264,751	4.00	288,442	5.00		
188	INVENTORY CONTROL TECHNICIAN												
	8,252	.15	9,492	.15									
274	SEASONAL WORKFORCE												
	64,436		75,571		75,000		75,000	75,000		75,000			
275	TEMPORARY EMPLOYEES												
	29,556		9,686		11,200		8,154						
299	PAYROLL TAXES AND FRINGES												
	550,634		561,216		632,966		584,839	684,939		722,063			

TOTAL CLASS: 05 PERSONNEL SERVICES

	1,462,045	13.48	1,531,711	13.65	1,620,812	13.50	1,525,546	1,774,721	13.50	1,812,447	14.50		
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CLASS: 10 MATERIALS & SERVICES

303	OFFICE FURNITURE & EQUIPMENT												
			2,948		1,200		1,200	1,200		1,200			
304	DEPARTMENT EQUIPMENT EXPENSE												
	10,130		8,396		7,900		7,900	5,900		5,900			

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0734 STORM DRAINAGE MAINTENANCE

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

049	<p>PROG COORDINATOR -PUBLIC WORKS            FY 18-19 REFLECTS RECLASSIFICATION OF 1 FTE ENGINEERING TECH 2 TO PROGRAM COORDINATOR</p>
057	<p>PUBLIC WORKS SUPERVISOR            THIS POSITION IS ALLOCATED 50/50 IN THE STORM DRAIN FUND AND THE SEWER FUND (502-85-0753)</p>
112	<p>PUBLIC WORKS MANAGER 3            POSITION FUNDED BY STREET FUND, STORM DRAIN FUND, AND SEWER FUND.            FY 17-18 FTE REFLECTS INCREASE DUE TO POSITION REALLOCATION DUE TO REORGANIZATION.</p>
123	<p>ENGINEERING TECH 2            FY 18-19 REFLECTS RECLASSIFICATION OF 1 FTE ENGINEERING TECH 2 TO PROGRAM COORDINATOR</p>
124	<p>ENGINEERING CONST INSPECTOR</p>
170	<p>PUBLIC WORKS LEAD              1 POSITION IS ALLOCATED: 50/50 502-85-0753 / 513-85-0734 (SEWER/STORM MAINTENANCE).            FY 17-18 REFLECTS 1 FTE INCREASE DUE TO RECLASSIFICATION AND REALLOCATION OF            1 FTE PW EQUIPMENT OPERATOR IN THE STORM DRAIN FUND.            FY 17-18 REFLECTS RECLASSIFICATION OF 1 FTE PW TECH TO 1 FTE PUBLIC WORKS LEAD.</p>
176	<p>PUBLIC WORKS EQUIPMNT OPERATOR</p>
177	<p>PUBLIC WORKS TECHNICIAN            FY 17-18 REFLECTS RECLASSIFICATION OF 1 FTE PW TECH TO 1 FTE PUBLIC WORKS LEAD.            FY 19-20 REFLECTS A NEW 1 FTE PW TECH POSITION.</p>
188	<p>INVENTORY CONTROL TECHNICIAN            FY 2018-19 REFLECTS REDISTRIBUTION OF 1 FTE INVENTORY CONTROL TECH POSITION FROM            25% IN 001-85 / 25% IN 101-85 / 25% IN 501-85 / 10% IN 502-85 / 15% IN 513-85 TO 100% IN            THE GARAGE FUND.</p>
274	<p>SEASONAL WORKFORCE            SEASONAL HELP FOR DRAINAGE FACILITY MOWING, POND RESTORATION/MAINTENANCE, CREEK            ENHANCEMENT AND LEAF PROGRAM. MAINTENANCE OF 50 PONDS (\$25,000); POND ENHANCEMENT            (\$10,000); CREEK ENHANCEMENT (\$15,000); LEAF PROGRAM (\$20,000)</p>
275	<p>TEMPORARY EMPLOYEES            NO APPROPRIATION REQUESTED</p>
299	<p>PAYROLL TAXES AND FRINGES            PAYROLL TAXES AND FRINGE BENEFITS EXPRESSED AS A PERCENTAGE OF SALARY            TOTALS 58.14% AS A CITY-WIDE AVERAGE AND CONSISTS OF THE FOLLOWING:            34.14% IN PAYROLL TAXES CONSISTING OF 7.65% FICA, AVERAGE OF 23.22% FOR            RETIREMENT CONTRIBUTIONS (28.45% PERS. 19.45% OPSRP GENERAL OR            24.08% OPSRP POLICE), AND 3.27% IN OTHER TAXES (UNEMPLOYMENT,            LONG TERM DISABILITY, WORKERS COMPENSATION, PEHP, AND TRIMET)            24.00% AS THE AVERAGE COST OF MEDICAL, DENTAL, LIFE AND AD&amp;D INSURANCES</p>
303	<p>OFFICE FURNITURE &amp; EQUIPMENT            4 CHAIRS @ \$300 \$1,200</p>
304	<p>DEPARTMENT EQUIPMENT EXPENSE            NOZZLES \$5,000            WEED WACKERS X2 @ \$450 \$900</p>

City of Beaverton - Finance  
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**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0734 STORM DRAINAGE MAINTENANCE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
305	SPECIAL DEPARTMENT SUPPLIES												
	37,318		29,692		34,200		25,000	27,700		27,700			
307	MEMBERSHIP FEES												
	830		1,400		875		400	815		815			
317	COMPUTER EQUIPMENT												
	967				3,000		1,500						
318	COMPUTER SOFTWARE												
	12,177		1,480										
321	TRAVEL, TRAINING & SUBSISTENCE												
	7,782		7,526		8,025		7,500	12,588		12,588			
328	MEALS & RELATED EXPENSE												
	380												
351	UTILITIES EXPENSE												
	4,612		4,619		5,075		2,400	5,075		5,075			5,075
361	UNIFORMS & SPECIAL CLOTHING												
	3,711		3,889		4,100		4,100	6,100		6,100			6,100
419	CHEMICAL & LABORATORY SUPPLIES												
			369		259		250	250		250			250
425	DUMPING EXPENSES												
	93,637		117,586		100,000		150,000	100,000		100,000			150,000
428	FLOOD CONTROL												
	2,137		1,271		1,500		800	1,500		1,500			1,500
433	STORM SEWER MAINTENANCE												
	21,671		13,778		22,000		22,000	32,000		32,000			32,000
461	SPECIAL EXPENSE												
	265		112		250			250		250			250
511	PROFESSIONAL SERVICES												
	184,617		152,298		185,639		185,000	181,800		189,300			189,300

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0734 STORM DRAINAGE MAINTENANCE

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 305 SPECIAL DEPARTMENT SUPPLIES
  - LINE CLEANING SUPPLIES \$2,000
  - VIDEO SUPPLIES \$5,000
  - GUTTER BROOMS THREE STREET SWEEPERS 3 PALLETS @ \$1,900/PALLET \$5,700
  - MISC SUPPLIES \$1,000
  - VACTOR PARTS = TUBES, SUCTION NOZZLES, CLAMPS \$5,000
  - HOSE REPLACEMENT FOR 3 VACTORS (800') @ \$3.66/FT \$9,000
- 307 MEMBERSHIP FEES
  - WW CERT RENEWALS (4@ \$160) \$640
  - PESTICIDE APPLICATORS LICENSE \$175
- 317 COMPUTER EQUIPMENT
  - NO APPROPRIATIONS REQUESTED
- 318 COMPUTER SOFTWARE
  - NO APPROPRIATIONS REQUESTED
- 321 TRAVEL, TRAINING & SUBSISTENCE
  - 5 - SHORT SCHOOL CLACKAMAS COMMUNITY COLLEGE (\$225 EACH) \$1,125
  - 4- FALL APWA CONFERENCE 3 NIGHT STAY (REGISTRATION \$1,400 & T&S \$2,000) \$3,400
  - 4- SPRING APWA CONFERENCE 3 NIGHT STAY (REGISTRATION \$1,400 & T&S \$2,000) \$3,400
  - 1-PACP USER CONFERENCE @ \$800 EACH \$800
  - 2 - VACTOR TRAINING @ \$275 \$550
  - 1-APWA SEATTLE CONFERENCE \$2,000
  - DEPARTMENTAL PROFESSIONAL DEVELOPMENT \$1,313
- 328 MEALS & RELATED EXPENSE
  - FY 2017-18 REFLECTS THIS EXPENSE IS ACCOUNTED FOR IN THE PUBLIC WORKS ADMINISTRATION FUND
- 351 UTILITIES EXPENSE
  - PURCHASE OF FIRE HYDRANT USE PERMITS AND WATER USAGE; IRRIGATION OF WATER QUALITY \$5,000
  - IRRIGATION FOR PLANT ESTABLISHMENT AT HALL CREEK 114TH TO 117TH \$75
- 361 UNIFORMS & SPECIAL CLOTHING
  - 10 EMPLOYEES @ \$610/EACH \$6,100
- 419 CHEMICAL & LABORATORY SUPPLIES
  - WEED CONTROL IN DRAINAGE FACILITIES RODEO AND GARLAND \$250
- 425 DUMPING EXPENSES
  - SWEEPER DEBRIS, LEAF DEBRIS, VACTOR DEBRIS \$150,000
- 428 FLOOD CONTROL
  - SAND, SANDBAGS, BARRICADES. \$1,500
- 433 STORM SEWER MAINTENANCE
  - BANK STABILIZATION MATERIALS: \$4,000
  - PLANTS AND OTHER MATERIALS FOR STREAM ENHANCEMENT PROJECTS \$14,000
  - PLANTS AND OTHER MATERIALS FOR POND MAINTENANCE PROJECTS \$14,000
- 461 SPECIAL EXPENSE
  - COMMERCIAL DRIVERS LICENSE RENEWAL \$250
- 511 PROFESSIONAL SERVICES
  - FILTER MAINTENANCE (11 VAULTS WITH 700 FILTERS @ \$90 EA) \$63,000
  - VIDEO EQUIPMENT REPAIRS \$9,000
  - TRAFFIC CONTROL, COVERALL CLEANING, ONE CALL FEES, AND DETECTOR CALIBRATIONS \$5,000
  - CREEK ENHANCEMENT; MAINTAIN UPPER FANNO WETLANDS, BARROWS MEADOWS, GREENWAY \$5,000
  - MAINTAIN CIP PROJECTS LITTLE PEOPLES PARK. \$5,000
  - PUBLIC WQ FACILITY REHABS: (6 PONDS) WITH NAC PARTICIPATION \$30,000
  - STORM LOCATES \$45,000
  - WETLAND MONITORING REPORTS \$7,000
  - CURTAINS FOR THREE SWEEPERS INSTALLED @ \$1,600/YR \$4,800
  - BACKYARD HABITAT PROGRAM \$15,500

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**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0734 STORM DRAINAGE MAINTENANCE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
512	CITY RIGHT OF WAY FEES												
	331,980		265,495		290,000		275,000	290,000		290,000			
551	RENTS AND LEASES												
	1,232		1,269		2,500		1,000	5,000		5,000			
TOTAL CLASS: 10 MATERIALS & SERVICES													
	713,446		612,128		666,523		684,050	670,178		727,678			
CLASS: 15 CAPITAL OUTLAY													
641	VEHICLES												
					37,650		38,001	26,500		26,500			
670	ROLLING STOCK												
								386,850		386,850			
671	EQUIPMENT												
	233,047		708,126		65,500		35,000						
TOTAL CLASS: 15 CAPITAL OUTLAY													
	233,047		708,126		103,150		73,001	413,350		413,350			
CLASS: 25 TRANSFERS													
801	TRSFR TO GENERAL FD - OVERHEAD												
	330,520		318,887		332,806		332,806	360,877		360,877			
802	TRSFR TO GENERAL FD-ACCOUNTING												
	46,631		28,616		62,355		62,355	79,528		79,528			
803	TRSFR TO GENERAL FD-LANDSCAPE												
	13,871		16,043		16,734		16,734	17,654		17,654			
804	TRSFR - OPERATIONS ADMIN												
	252,722		269,284		237,588		237,588	232,735		236,520			
805	TRSFR TO G/F BLDG MAINT												
	12,288		14,244		12,398		12,398	12,467		12,467			
808	TRSFRS TO GIS PGRM (TO ISD FUND 2018-19)												
	84,496		141,672		153,606		153,606	152,184		152,008			
817	TRSFRS TO GARAGE FUND												
	147,307		128,829		199,579		199,579	153,163		153,163			
818	TRSFRS TO ISD-ALLOCATED												
	94,268		111,419		142,713		142,713	172,511		172,565			
819	TRSFRS TO INSURANCE FUND												
	108,046		124,253		124,253		124,253	155,316		155,316			
TOTAL CLASS: 25 TRANSFERS													
	1,090,149		1,153,247		1,282,032		1,282,032	1,336,435		1,340,098			
CLASS: 30 FUND BAL/CONTINGENCY/RESERVES													
981	RESERVE - STORM SDC CONVEYANCE												
					2,121,312			1,878,736		1,880,255			

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0734 STORM DRAINAGE MAINTENANCE

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

512 CITY RIGHT OF WAY FEES  
 THIS ACCOUNT WAS ESTABLISHED TO ACCOUNT FOR THE PAYMENT IN LIEU OF 5% FRANCHISE FEES \$290,000 TO THE GENERAL FUND.

551 RENTS AND LEASES  
 TOOL RENTALS (CHIPPER,MINI EXCAVATOR) \$5,000

641 VEHICLES  
 ADDITIONAL VEHICLE, FORD ESCAPE (COST INCLUDES VEHICLE, SAFETY LIGHTING, LICENSING) \$26,500

670 ROLLING STOCK  
 REPLACEMENT OF 22-502, 2006 ODB LEAF COLLECTOR WITH LIKE UNIT (COST INCLUDES VEHICLE, SAFETY LIGHTING, LICENSING) \$88,000  
 REPLACEMENT OF 5-510 STREET SWEEPER WITH ELGIN SWEEPER LIKE TYPE UNIT (COST INCLUDES SWEEPER, SAFETY LIGHTING, AND TITLE) \$298,850

671 EQUIPMENT  
 NO APPROPRIATION REQUESTED

801 TRSFER TO GENERAL FD - OVERHEAD  
 ALLOCATION OF OVERHEAD SERVICES PROVIDED BY GENERAL FUND  
 14.59% OF FY18-19 BUDGETED PERSONNEL SERVICES TOTAL EXPENDITURES \$360,877

802 TRSFER TO GENERAL FD-ACCOUNTING  
 ALLOCATION OF ACCOUNTING SERVICES PROVIDED BY THE GENERAL FUND \$79,528

803 TRSFER TO GENERAL FD-LANDSCAPE  
 ALLOCATION OF LANDSCAPE SERVICES PROVIDED BY THE GENERAL FUND \$17,654

804 TRSFER - OPERATIONS ADMIN  
 ALLOCATION OF SERVICES PROVIDED BY THE OPERATIONS ADMINISTRATION FUND \$236,520

805 TRSFER TO G/F BLDG MAINT  
 ALLOCATION OF BUILDING MAINTENANCE SERVICES PROVIDED BY THE GENERAL FUND \$12,467

808 TRSFERS TO GIS PGRM (TO ISD FUND 2018-19)  
 ALLOCATION OF GEOGRAPHICAL INFORMATION SERVICES \$152,008

817 TRSFERS TO GARAGE FUND  
 ALLOCATION OF FLEET SERVICES (FUEL AND MAINTENANCE) PROVIDED BY THE GARAGE FUND \$153,163

818 TRSFERS TO ISD-ALLOCATED  
 ALLOCATION OF SERVICES PROVIDED BY THE INFORMATION SYSTEMS FUND \$107,932  
 SOFTWARE MAINTENANCE COSTS - ASSET SYSTEM AND UTILITY BILLING \$62,433  
 ENGINEERING SOFTWARE UPGRADES \$2,200

819 TRSFERS TO INSURANCE FUND  
 ALLOCATION OF CHARGES FOR GENERAL LIABILITY AND PROPERTY INSURANCE. \$155,316

981 RESERVE - STORM SDC CONVEYANCE

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**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0734 STORM DRAINAGE MAINTENANCE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED				
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE			
984	RESERVE - STORM SDC QUALITY				220,032			280,610		80,781						
985	RESERVE - STORM SDC QUANTITY				676,849			715,481		715,897						
986	RESERVE - DEDICATED SURCHARGES				2,378,683			-760,128		193,349						
991	CONTINGENCY - UNRESERVED				2,631,943			3,300,564		3,521,703						
996	RESERVE - EQUIPMENT REPLACEMT				838,090			973,785		973,785						
TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES					8,866,909			6,389,048		7,365,770						
TOTAL PROGRAM: 0734 STORM DRAINAGE MAINTENANCE					3,498,687		13.48	4,005,212	13.65	12,539,426	13.50	3,564,629	10,583,732	13.50	11,659,343	14.50

### BP WORKSHEET & JUSTIFICATION

FUND: 513 STORM DRAIN FUND  
DEPT: 85 PUBLIC WORKS - OPERATIONS  
PROGRAM: 0734 STORM DRAINAGE MAINTENANCE

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 984 RESERVE - STORM SDC QUALITY
- 985 RESERVE - STORM SDC QUANTITY
- 986 RESERVE - DEDICATED SURCHARGES
- 991 CONTINGENCY - UNRESERVED
- 996 RESERVE - EQUIPMENT REPLACEMT  
RESERVE FOR VEHICLE REPLACEMENT \$973,785



City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0739 STORM DRAINAGE CONSTRUCTION

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

057	PUBLIC WORKS SUPERVISOR												
	20,932	.25											
112	PUBLIC WORKS MANAGER 3												
	28,093	.33	30,992	.33	30,983	.33	30,983	33,870	.33	33,542	.33		
170	PUBLIC WORKS LEAD												
	21,243	.33	23,808	.33	17,201	.33	17,201	25,335	.33	47,393	.83		
176	PUBLIC WORKS EQUIPMNT OPERATOR												
	34,615	.50	35,227	.50	34,411	.50	32,704	37,033	.50	35,395	.50		
177	PUBLIC WORKS TECHNICIAN												
	54,793	1.00	55,674	1.00	59,646	1.00	56,996	61,232	1.00	61,813	1.00		
274	SEASONAL WORKFORCE												
								10,000		10,000			
299	PAYROLL TAXES AND FRINGES												
	65,539		98,816		104,958		93,172	107,015		129,829			

TOTAL CLASS: 05 PERSONNEL SERVICES

	175,879	1.75	239,053	2.16	253,815	2.16	231,056	274,485	2.16	317,972	2.66		
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CLASS: 10 MATERIALS & SERVICES

304	DEPARTMENT EQUIPMENT EXPENSE												
	2,805				7,000		4,000	6,000		5,000			
305	SPECIAL DEPARTMENT SUPPLIES												
	2,749		3,862		5,000		3,000	5,000		5,000			
307	MEMBERSHIP FEES												
					300		300	300		300			
321	TRAVEL, TRAINING & SUBSISTENCE												
	24		1,199		2,000		1,700	1,700		1,700			
328	MEALS & RELATED EXPENSE												
	175												
425	DUMPING EXPENSES												
	1,170		1,672		1,200		1,000	1,200		1,200			

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0739 STORM DRAINAGE CONSTRUCTION

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 057 PUBLIC WORKS SUPERVISOR
  
- 112 PUBLIC WORKS MANAGER 3  
 POSITION FUNDED 34% STREET FUND, 33% STORM DRAIN FUND, AND 33% SEWER FUND.  
 FY 17-18 FTE REFLECTS INCREASE DUE TO POSITION REALLOCATION DUE TO REORGANIZATION.
  
- 170 PUBLIC WORKS LEAD  
 FY 17-18 REFLECTS RECLASSIFICATION OF 1 FTE PW EQUIPMENT OPERATOR IN THE STREET FUND TO  
 1 FTE PW LEAD THAT IS ALLOCATED 33/34/33 IN STREET / SEWER / STORM FUNDS DUE TO  
 REORGANIZATION.  
 FY 19-20 REFLECTS A NEW 1 FTE PW LEAD POSITION THAT IS ALLOCATED 50/50 IN SEWER/STORM  
 FUNDS IN THE CONSTRUCTION PROGRAM.
  
- 176 PUBLIC WORKS EQUIPMNT OPERATOR
  
- 177 PUBLIC WORKS TECHNICIAN
  
- 274 SEASONAL WORKFORCE
  
- 299 PAYROLL TAXES AND FRINGES  
 PAYROLL TAXES AND FRINGE BENEFITS EXPRESSED AS A PERCENTAGE OF SALARY  
 TOTALS 58.14% AS A CITY-WIDE AVERAGE AND CONSISTS OF THE FOLLOWING:  
 34.14% IN PAYROLL TAXES CONSISTING OF 7.65% FICA, AVERAGE OF 23.22% FOR  
 RETIREMENT CONTRIBUTIONS (28.45% PERS. 19.45% OPSRP GENERAL OR  
 24.08% OPSRP POLICE), AND 3.27% IN OTHER TAXES (UNEMPLOYMENT,  
 LONG TERM DISABILITY, WORKERS COMPENSATION, PEHP, AND TRIMET)  
 24.00% AS THE AVERAGE COST OF MEDICAL, DENTAL, LIFE AND AD&D INSURANCES
  


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- 304 DEPARTMENT EQUIPMENT EXPENSE  
 CALIBRATION STANDARDS; ATMOSPHERIC TESTER REAGENTS \$5,000  
 POWER TOOL REPLACEMENTS AS NEEDED  
 HYDRAULIC TRENCH PIPE SAW
  
- 305 SPECIAL DEPARTMENT SUPPLIES  
 REPLACEMENT BLADES; CUTTING CHAINS AND SAW PARTS \$5,000  
 EROSION CONTROL (CB SILT SACKS, COIR LOGS . . .)  
 TRAFFIC CONTROL, BARRICADES, STEEL PLATES
  
- 307 MEMBERSHIP FEES  
 CERT TESTING FEES \$300
  
- 321 TRAVEL, TRAINING & SUBSISTENCE  
 1 - AWWA CONFERENCE REDMOND WITH 3 NIGHT STAY (\$250 REGISTRATION + \$400 T&S) \$650  
 1 - VACTOR TRAINING \$300  
 1 - AWWA CONFERENCE NEWPORT WITH 3 NIGHT STAY (\$250 REGISTRATION + \$500 T&S) \$750
  
- 328 MEALS & RELATED EXPENSE  
 FY 2017-18 REFLECTS THIS EXPENSE IS ACCOUNTED FOR IN THE PUBLIC WORKS ADMINISTRATION FUND
  
- 425 DUMPING EXPENSES  
 LANDFILL DEBRIS DISPOSAL \$1,200

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0739 STORM DRAINAGE CONSTRUCTION

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
434	CONSTRUCTION MATERIALS												
	12,867		41,260		87,000		30,000	68,000		50,000			
511	PROFESSIONAL SERVICES												
	1,063		43,323		77,500		77,500	96,250		96,250			
551	RENTS AND LEASES												
	1,404		1,269		4,000		1,500	2,500		1,500			
TOTAL CLASS: 10 MATERIALS & SERVICES													
	22,257		92,585		184,000		119,000	180,950		160,950			
CLASS: 15 CAPITAL OUTLAY													
641	VEHICLES								68,000		68,000		
670	ROLLING STOCK								90,000		180,000		
671	EQUIPMENT												
			33,011										
TOTAL CLASS: 15 CAPITAL OUTLAY													
			33,011					158,000		248,000			
CLASS: 25 TRANSFERS													
817	TRSFERS TO GARAGE FUND												
	5,639		24,816		10,827		10,827	29,593		29,593			
TOTAL CLASS: 25 TRANSFERS													
	5,639		24,816		10,827		10,827	29,593		29,593			
TOTAL PROGRAM: 0739 STORM DRAINAGE CONSTRUCTION													
	203,775	1.75	389,465	2.16	448,642	2.16	360,883	643,028	2.16	756,515	2.66		
TOTAL DEPARTMENT: 85 PUBLIC WORKS - OPERATIONS													
	3,702,462	15.23	4,394,677	15.81	12,988,068	15.66	3,925,512	11,226,760	15.66	12,415,858	17.16		
TOTAL FUND: 513 STORM DRAIN FUND													
	4,769,621	19.59	5,628,630	20.17	17,366,587	20.95	6,708,402	18,048,829	20.70	18,485,591	22.45		

**BP WORKSHEET & JUSTIFICATION**

FUND: 513 STORM DRAIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0739 STORM DRAINAGE CONSTRUCTION

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 434 CONSTRUCTION MATERIALS
  - 28 CATCH BASIN REHABILITATIONS @ \$1,000 EACH \$28,000
  - VAULT AND MANHOLE STRUCTURE REPAIRS 2 @ \$5,000 EACH \$10,000
  - PIPE REPAIRS (5 @ \$2000 EACH) \$10,000
  - STORM GRATE REPLACEMENT PROGRAM \$2,000
- 511 PROFESSIONAL SERVICES
  - MANHOLE ADJUSTMENT AND SEALING: AS IDENTIFIED BY INSPECTIONS AND OVERLAYS 35 @ \$2,250 \$78,750
  - TRAFFIC CONTROL, CORE DRILLING AND CLEANING COVERALLS \$10,000
  - TRUCKING 50 HOURS @ \$100 PER HOUR \$5,000
  - PORTABLE RESTROOM SERVICING, STREET CUTTING \$1,000
  - TRAFFIC CONTROL FOR MANHOLE ADJUSTMENTS \$1,500
- 551 RENTS AND LEASES
  - MISCELLANEOUS EQUIPMENT, SHORING AND STEEL PLATES \$1,500
  - ARCTIC STORAGE LOT LEASE - NO LONGER LEASE ARCTIC LOT

- 641 VEHICLES
  - REPLACEMENT OF 3-614, 2005 CHEVY 1500 PICKUP WITH FORD F550 4WD DUMP BODY VEHICLE \$68,000  
 (COST INCLUDES VEHICLE, SAFETY LIGHTING, LICENSING, AND MISC ACCESSORIES)
- 670 ROLLING STOCK
  - REPLACEMENT OF 6-507, 2004 CATERPILLAR BACKHOE WITH NEW CATERPILLAR BACKHOE LIKE TYPE UNIT (COST INCLUDES BACKHOE, EXTENDED WARRANTY) \$180,000  
 50% OF THE COST WILL BE FUNDED BY THE SEWER FUND.
- 671 EQUIPMENT
  - NO APPROPRIATION REQUESTED

- 817 TRSFERS TO GARAGE FUND
  - FLEET SERVICE PROVIDED BY THE GARAGE FUND \$29,593

**ESTIMATE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
513-72	CAPITAL DEVELOPMNT-ENGINEERING											
513-72-0740-05-046	PRINCIPAL ENGINEER	0.25	540			34,427				34,427	16,494	50,921
513-72-0740-05-051	CITY ENGINEER	0.33	685			43,758				43,758	23,356	67,114
513-72-0740-05-068	ENGINEERING ASSOCIATE	0.50	344			13,269				13,269	9,218	22,487
513-72-0740-05-084	PROJECT ENGINEER 1	1.50	3,126			141,147				141,147	76,284	217,431
513-72-0740-05-124	ENGINEERING CONST INSPECTOR	0.40	832	24		26,637	1,138		108	27,884	17,401	45,285
513-72-0740-05-221	SUPPORT SPECIALIST 2	0.25	521	5		12,625	148			12,772	5,597	18,369
	ENTERPRISE MGMT & ADMIN	3.23	6,048	29		271,863	1,286		108	273,257	148,350	421,607
	**** DEPARTMENT TOTAL ****	3.23	6,048	29		271,863	1,286		108	273,257	148,350	421,607

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**ESTIMATE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
513-85	PUBLIC WORKS - OPERATIONS											
513-85-0734-05-049	PROG COORDINATOR -PUBLIC	1.00	2,080	48		62,648	2,157		270	65,075	30,207	95,282
513-85-0734-05-057	PUBLIC WORKS SUPERVISOR	0.50	1,071	12		36,931	717			37,649	24,794	62,443
513-85-0734-05-112	PUBLIC WORKS MANAGER 3	0.50	1,241			59,675				59,676	36,714	96,390
513-85-0734-05-124	ENGINEERING CONST INSPECTOR	1.00	2,176	62		75,876	3,203		270	79,349	36,625	115,974
513-85-0734-05-170	PUBLIC WORKS LEAD	2.50	4,651	59		152,956	2,979		405	156,337	122,866	279,203
513-85-0734-05-176	PUBLIC WORKS EQUIPMNT	4.00	7,712	137		230,159	6,133		1,080	237,372	170,291	407,663
513-85-0734-05-177	PUBLIC WORKS TECHNICIAN	4.00	8,179	24		219,864	1,031		1,200	222,095	142,294	364,389
513-85-0734-05-274	SEASONAL WORKFORCE		4,320			74,988			12	75,000	17,361	92,361
513-85-0734-05-275	TEMPORARY EMPLOYEES		397	1		8,139	15			8,154	3,687	11,841
	STORM DRAINAGE MAINTENANCE	13.50	31,827	343		921,235	16,235		3,237	940,707	584,839	1,525,546
328												
513-85-0739-05-112	PUBLIC WORKS MANAGER 3	0.33	688			30,982				30,983	16,879	47,862
513-85-0739-05-170	PUBLIC WORKS LEAD	0.33	530	2		16,999	115		89	17,201	11,360	28,561
513-85-0739-05-176	PUBLIC WORKS EQUIPMNT	0.50	1,059	17		31,897	670		135	32,704	22,149	54,853
513-85-0739-05-177	PUBLIC WORKS TECHNICIAN	1.00	2,085			56,726			270	56,996	42,784	99,780
	STORM DRAINAGE CONSTRUCTION	2.16	4,362	19		136,604	785		494	137,884	93,172	231,056
	**** DEPARTMENT TOTAL ****	15.66	36,188	361		1,057,839	17,020		3,731	1,078,591	678,011	1,756,602

**PROPOSE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
513-72	CAPITAL DEVELOPMNT-ENGINEERING											
513-72-0740-05-046	PRINCIPAL ENGINEER	0.25	554			36,215				36,215	18,813	55,028
513-72-0740-05-051	CITY ENGINEER	0.33	691			45,211				45,211	26,793	72,004
513-72-0740-05-068	ENGINEERING ASSOCIATE	1.00	2,096	10		78,906	518		270	79,694	53,115	132,809
513-72-0740-05-084	PROJECT ENGINEER 1	1.10	2,319			112,114				112,114	73,167	185,281
513-72-0740-05-123	ENGINEERING TECH 2	0.25	524	1		17,566	63		30	17,659	12,291	29,950
513-72-0740-05-221	SUPPORT SPECIALIST 2	0.25	524	5		13,822	195			14,017	6,620	20,637
	ENTERPRISE MGMT & ADMIN	3.18	6,708	16		303,834	776		300	304,910	190,799	495,709
	**** DEPARTMENT TOTAL ****	3.18	6,708	16		303,834	776		300	304,910	190,799	495,709

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**PROPOSE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

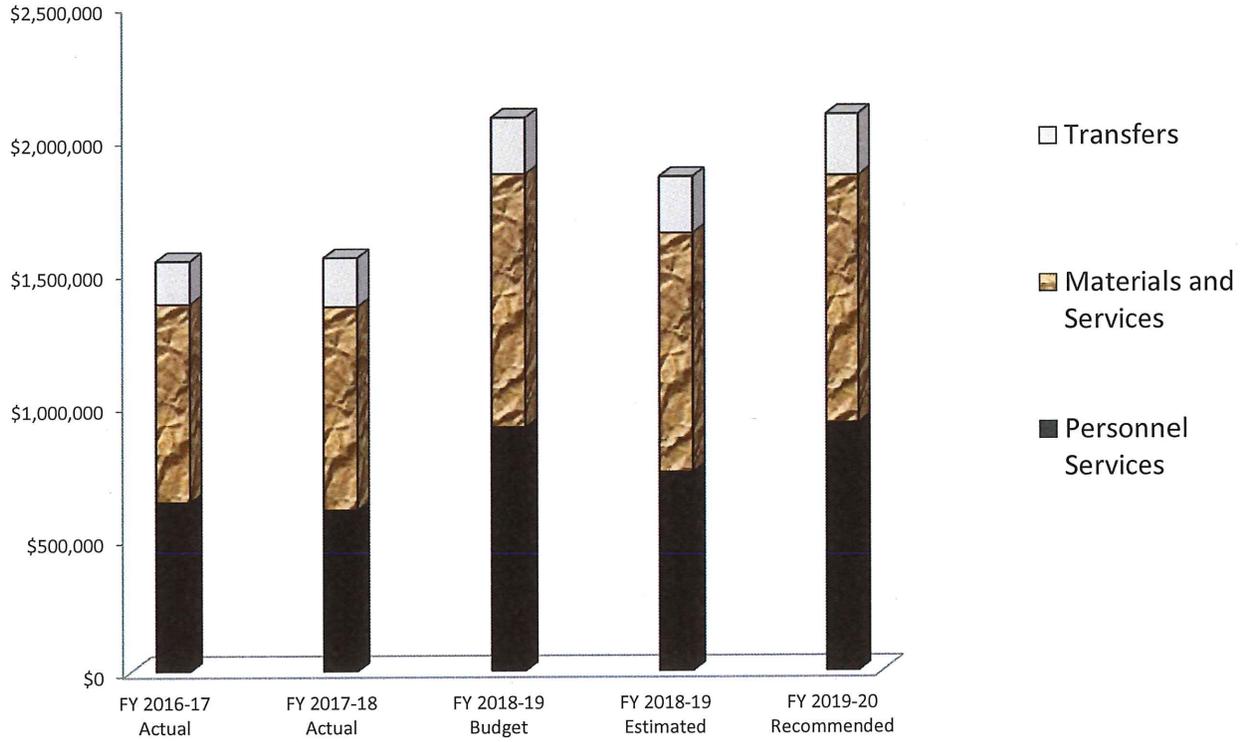
ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
513-85	PUBLIC WORKS - OPERATIONS											
513-85-0734-05-049	PROG COORDINATOR -PUBLIC	1.00	2,176	48		71,253	2,358		270	73,881	35,284	109,165
513-85-0734-05-057	PUBLIC WORKS SUPERVISOR	0.50	1,048	6		35,751	271		80	36,102	26,090	62,192
513-85-0734-05-112	PUBLIC WORKS MANAGER 3	0.50	1,108			52,771				52,771	39,386	92,157
513-85-0734-05-124	ENGINEERING CONST INSPECTOR	1.00	2,176	62		78,559	3,358		225	82,142	41,579	123,721
513-85-0734-05-170	PUBLIC WORKS LEAD	2.50	5,710	69		203,568	3,726		1,040	208,334	160,728	369,062
513-85-0734-05-176	PUBLIC WORKS EQUIPMNT	4.00	8,874	137		266,063	6,409		1,240	273,712	208,311	482,023
513-85-0734-05-177	PUBLIC WORKS TECHNICIAN	5.00	10,400	24		285,582	1,030		1,830	288,442	208,325	496,767
513-85-0734-05-274	SEASONAL WORKFORCE		4,320			74,995			5	75,000	2,360	77,360
	STORM DRAINAGE MAINTENANCE	14.50	35,812	346		1,068,542	17,152		4,690	1,090,384	722,063	1,812,447
513-85-0739-05-112	PUBLIC WORKS MANAGER 3	0.33	691			33,542				33,542	19,910	53,452
513-85-0739-05-170	PUBLIC WORKS LEAD	0.83	1,559			47,153	16		224	47,393	35,666	83,059
513-85-0739-05-176	PUBLIC WORKS EQUIPMNT	0.50	1,108	15		34,559	702		135	35,395	25,046	60,441
513-85-0739-05-177	PUBLIC WORKS TECHNICIAN	1.00	2,116			61,543			270	61,813	48,327	110,140
513-85-0739-05-274	SEASONAL WORKFORCE		576			9,999			1	10,000	880	10,880
	STORM DRAINAGE CONSTRUCTION	2.66	6,050	15		186,796	718		630	188,143	129,829	317,972
	**** DEPARTMENT TOTAL ****	17.16	41,862	361		1,255,338	17,870		5,320	1,278,527	851,892	2,130,419

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# GARAGE FUND

## RECOMMENDED FY 19-20



**CITY OF BEAVERTON**

**BUDGET TREND ANALYSIS - FY 2016-17 TO FY 2019-20**

With Explanations on Significant Changes between Budgeted 2018-19 and Recommended 2019-20

Fund:	Garage					% Change Budgeted Vs. Recommended
	Actual FY 2016-17	Actual FY 2017-18	Budget FY 2018-19	Estimated FY 2018-19	Recommended FY 2019-20	
CLASS						
Personnel Services	\$632,938	\$602,853	\$913,887	\$745,549	\$929,486	1.71%
Materials and Services	744,941	764,897	950,861	897,673	928,944	-2.30%
Transfers	161,059	183,223	211,548	211,548	230,104	8.77%
SUB-TOTAL	\$1,538,938	\$1,550,973	\$2,126,330	\$1,904,804	\$2,088,534	
Contingency			69,157		76,876	
TOTAL	\$1,538,938	\$1,550,973	\$2,195,487	\$1,904,804	\$2,165,410	
FTE's	6.00	6.00	8.00		8.00	

**Explanation of item(s) that are significant (10% and greater than \$10,000):**

**Personnel services:**

FY 2019-20 reflects step increases, COLA increases for BPA, SEIU, management averaging 2.87% in total, and a 3% VEBA (Voluntary Employees Beneficiary Association Plan) for management and a 1% increase to the VEBA for SEIU. Also shown are an average 0.63% increase in PERS contributions, medical insurance cost increase of 8% for Kaiser, 1.74% increase in MODA plans and 2% increase for Dental.

**Materials and services:**

No significant change

**Transfers:**

No significant change

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 602 GARAGE	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>DEPARTMENT HEAD:</b> DAVID DONALDSON	

**MISSION STATEMENT:**

To provide high quality and efficient vehicle maintenance, repair and procurement services for the City's fleet of vehicles. Establish and achieve high standards for vehicle reliability, appearance, longevity and performance.

The primary source of revenue is inter-fund charges for maintenance and upkeep of vehicles and equipment.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	6.00	6.00	8.00	8.00	0.00
PERSONNEL SERVICES	\$632,938	\$602,853	\$913,887	\$929,486	\$0
MATERIALS & SERVICES	744,941	764,897	950,861	928,944	0
CAPITAL OUTLAY	0	0	50,034	0	0
TRANSFERS	161,059	183,223	211,548	230,104	0
CONTINGENCY	0	0	69,157	76,876	0
<b>TOTAL</b>	<b>\$1,538,938</b>	<b>\$1,550,973</b>	<b>\$2,195,487</b>	<b>\$2,165,410</b>	<b>\$0</b>

Funding Sources:	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2019-20
Beginning Working Capital	\$98,174	\$103,315	\$165,079	\$295,931	\$0
Miscellaneous Revenues	10,953	44,670	3,500	4,000	0
Operating Transfers	1,533,123	1,568,065	2,026,908	1,865,479	0

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 602 GARAGE	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0762 FLEET MAINTENANCE	<b>PROGRAM MANAGER:</b> MIKE STERLE

**Program Goal:**

To provide a safe and reliable fleet of vehicles for use by city employees through the use of a comprehensive preventive maintenance program. Provide specialized support to fleet vehicle users when necessary to assure that well designed and properly equipped vehicles are regularly available for use. Convert the city's vehicle fleet to utilize a combination of renewable and domestically produced fuels (Propane auto gas, Renewable-diesel, Electric, and Electric Hybrid).

<b>Program Objective:</b>	<b>FY 2016-17 Actual</b>	<b>FY 2017-18 Actual</b>	<b>FY 2018-19 Budgeted/Revised</b>	<b>FY 2019-20 Proposed</b>
Number of Fleet Vehicles Maintained	211	218	223 / 222	220
Number of Equipment Units Maintained (Includes Off Highway, Trailers, Attachments, Vehicles over 26,000 GVWR)	128	133	133 / 132	135
Number of Small Equipment Units Maintained (Includes all 900 series numbered assets, Non- roadable) (New measure)		195	195 / 213	213
Number of Vehicles Requiring DEQ Inspection	198	203	208 / 206	207
Labor Hours For Unscheduled Repairs	828	1,178	1,100 / 1,302	1,350

**Progress on FY 2018-19 Action Plan:**

- Continued implementation of the RTA fleet software program to fully utilize its capabilities.
- Move fleet to Floating Pin fuel card system to track fuel usage for preventative maintenance software.

<b>Performance Measures:</b>	<b>FY 2016-17 Actual</b>	<b>FY 2017-18 Actual</b>	<b>FY 2018-19 Budgeted/Revised</b>	<b>FY 2019-20 Proposed</b>
Number of Fleet Vehicles/Equipment per Mechanic	68.4	87.7	91.5 / 86.7	87.5
Number of DEQ Inspections Completed	77	67	77 / 83	61
Total Number of Jobs Completed from all Work Orders	5,064	5,190	5,200 / 4,342	5,150
Average Number of Work Orders per Vehicle	14.9	15.2	14.2 / 12.5	14.7
Average Number of Preventative Maintenance Services Performed	1,036	1,240	1,800 / 966	1,500

CITY OF BEAVERTON, OREGON  
 FISCAL YEAR 2019-20 BUDGET  
 CURRENT LEVEL OF SERVICES

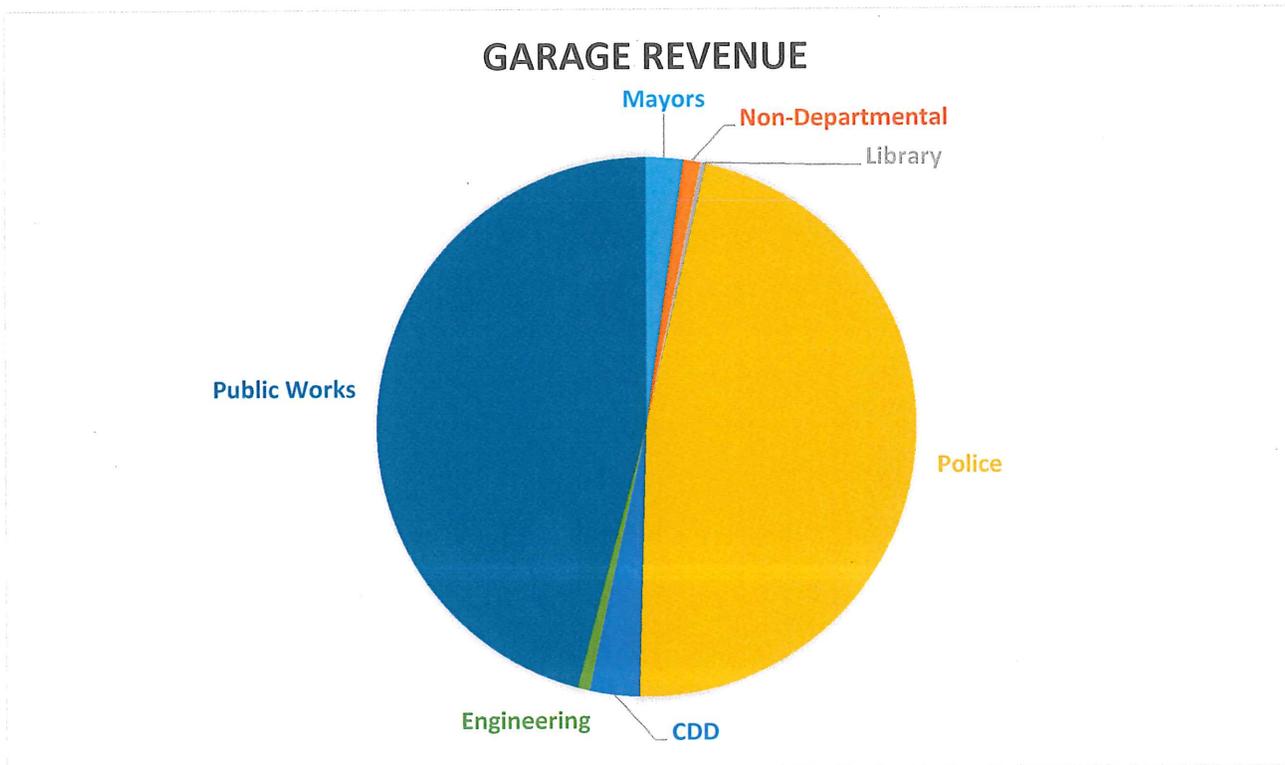
<b>FUND:</b> 602 GARAGE	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0762 FLEET MAINTENANCE	<b>PROGRAM MANAGER:</b> MIKE STERLE

**Performance Outcomes and Program Trends:**

Achieve high levels of vehicle performance and reliability with the intent to eliminate unscheduled vehicle and equipment out-of-service time due to problems that can be anticipated. Establish a fleet profile that maintains an effective balance of newer vehicles requiring limited repairs and older vehicles with higher maintenance costs. The number of FTE is not keeping pace with the increasing size and complexity of the fleet, which may cause issues in the future. Use of the new fleet maintenance software will increase data analysis abilities and hopefully identify efficiency and effectiveness improvements.

The Fleet Maintenance program is funded by inter-fund transfers. The transfers are based on the number of vehicles supported and fuel used. The largest sources of transfers are the Police Department, Street Maintenance, Sewer System Maintenance and Storm Drainage Maintenance.

Garage Fund revenue by department:



**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 602 GARAGE FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 BEGINNING WORKING CAPITAL

301 BEGINNING WORKING CAPITAL

	-98,174		-103,315		-165,079		-165,079	-165,079	-296,006		-295,931			
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TOTAL CLASS: 05 BEGINNING WORKING CAPITAL

	-98,174		-103,315		-165,079		-165,079	-165,079	-296,006		-295,931			
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CLASS: 35 MISCELLANEOUS REVENUES

382 SALE OF CITY OR BURA PROPERTY

	-6,490		-37,778				-3,287	-3,500						
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384 INVESTMENT INTEREST EARNINGS

	-1,630		-2,085		-3,500		-1,386	-3,500	-3,900		-3,900			
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389 MISCELLANEOUS REVENUES

			-2,545				-152	-152	-100		-100			
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399 REIMBURSEMENTS - OTHER

			-50				-164	-200						
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757 MED/LIFE INS PREM REFUND DISTRIBUTION

	-2,833		-2,212				-1,396	-1,396						
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TOTAL CLASS: 35 MISCELLANEOUS REVENUES

	-10,953		-44,670		-3,500		-6,385	-8,748	-4,000		-4,000			
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CLASS: 40 INTERFUND TRANSFERS/LOANS

411 TRSFERS FROM GENERAL FUND

	-873,605		-907,338		-1,125,185		-517,959	-1,125,185	-1,079,225		-1,079,225			
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412 TRSFERS FROM STREET FUND

	-221,220		-207,227		-297,252		-127,898	-297,252	-266,067		-266,067			
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419 TRSFERS FROM WATER FUND

	-99,563		-112,814		-137,512		-66,885	-137,512	-134,214		-134,214			
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421 TRSFERS FROM SEWER FUND

	-117,391		-123,957		-162,292		-64,765	-162,292	-147,652		-147,652			
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428 TRSFR FR BUILDING OPERATING FD

336

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 602 GARAGE FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	-43,062		-41,057		-55,462		-22,943	-55,462	-48,863		-48,863			
430	TRANSFER FROM LIBRARY FUND													
	-5,751		-5,635		-13,356		-5,369	-13,356	-6,702		-6,702			
440	TRSFERS FR STREET LIGHTING FUND													
	-19,585		-16,392		-25,443		-12,679	-25,443						
441	TRSFERS FR STORM DRAIN FUND													
	-152,946		-153,645		-210,406		-143,390	-210,406	-182,756		-182,756			
TOTAL CLASS: 40 INTERFUND TRANSFERS/LOANS														
	-1,533,123		-1,568,065		-2,026,908		-961,888	-2,026,908	-1,865,479		-1,865,479			
TOTAL DEPARTMENT: 03 REVENUE														
	-1,642,250		-1,716,050		-2,195,487		-1,133,352	-2,200,735	-2,165,485		-2,165,410			

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 602 GARAGE FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

049 PROG COORDINATOR -PUBLIC WORKS

					51,993	1.00	36,954	53,677	73,927	1.00	73,927	1.00		
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136 FLEET MANAGER

	94,766	1.00	96,443	1.00	102,709	1.00	73,813	98,719	108,849	1.00	107,794	1.00		
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155 MECHANIC LEAD

	66,106	1.00	63,434	1.00	75,783	1.00	38,694	53,235	65,010	1.00	65,010	1.00		
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163 MECHANIC 2

	119,005	2.00	124,961	2.00	119,701	2.00	65,428	93,729	127,893	2.00	127,893	2.00		
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188 INVENTORY CONTROL TECHNICIAN

					63,401	1.00	30,862	44,411	58,417	1.00	58,417	1.00		
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195 MECHANIC 1

	103,897	2.00	97,575	2.00	99,372	2.00	66,818	90,525	106,358	2.00	106,358	2.00		
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275 TEMPORARY EMPLOYEES

			3,908		22,300		15,895	15,898						
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299 PAYROLL TAXES AND FRINGES

	249,164		216,532		378,628		218,921	295,355	387,938		390,087			
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TOTAL CLASS: 05 PERSONNEL SERVICES

	632,938	6.00	602,853	6.00	913,887	8.00	547,385	745,549	928,392	8.00	929,486	8.00		
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CLASS: 10 MATERIALS & SERVICES

304 DEPARTMENT EQUIPMENT EXPENSE

	12,739		12,502		48,000		50,810	51,000	19,600		19,600			
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305 SPECIAL DEPARTMENT SUPPLIES

	15,902		21,447		20,000		16,632	20,000	21,000		21,000			
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306 NON-FLEET EQUIPMENT

	2,552		1,156		2,500		726	1,500	2,000		2,000			
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307 MEMBERSHIP FEES

	120		724		920			920	920		920			
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308 PERIODICALS & SUBSCRIPTIONS

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 602 GARAGE FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
					200				200		200			
317	COMPUTER EQUIPMENT													
	1,001		661		1,442		1,303	1,303						
318	COMPUTER SOFTWARE													
	551													
321	TRAVEL, TRAINING & SUBSISTENCE													
	7,469		7,402		14,600		9,244	12,000	15,400		15,400			
331	VEHICLE EXPENSE													
	159,009		127,207		185,500		88,369	165,000	185,500		185,500			
332	VEHICLE FUEL													
	338,166		390,448		425,000		425,000	425,000	450,000		450,000			
361	UNIFORMS & SPECIAL CLOTHING													
	80				3,700		3,921	5,000	6,000		6,000			
371	EQUIPMENT OPER & MAINT EXPENSE													
	89,812		85,790		102,600		56,876	95,000	107,700		107,700			
481	OTHER EXPENSES													
	306		362		300		1,257	950	624		624			
511	PROFESSIONAL SERVICES													
	117,234		117,198		146,099		64,089	120,000	120,000		120,000			
TOTAL CLASS: 10 MATERIALS & SERVICES														
	744,941		764,897		950,861		718,227	897,673	928,944		928,944			
CLASS: 15 CAPITAL OUTLAY														
671	EQUIPMENT													
					50,034		50,033	50,034						
TOTAL CLASS: 15 CAPITAL OUTLAY														
					50,034		50,033	50,034						
CLASS: 25 TRANSFERS														
804	TRSFER - OPERATIONS ADMIN													

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 602 GARAGE FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	78,409		86,072		106,201		88,501	106,201	118,894		110,266			
805	TRSFER TO G/F BLDG MAINT													
	3,616		4,454		4,335		3,613	4,335	4,596		4,596			
818	TRSFERS TO ISD-ALLOCATED													
	38,166		45,699		54,014		45,012	54,014	56,479		56,495			
819	TRSFERS TO INSURANCE FUND													
	40,868		46,998		46,998		39,165	46,998	58,747		58,747			
TOTAL CLASS: 25 TRANSFERS														
	161,059		183,223		211,548		176,291	211,548	238,716		230,104			
CLASS: 30 FUND BAL/CONTINGENCY/RESERVES														
991	CONTINGENCY - UNRESERVED													
					69,157				69,433		76,876			
TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES														
					69,157				69,433		76,876			
TOTAL DEPARTMENT: 85 PUBLIC WORKS - OPERATIONS														
	1,538,938	6.00	1,550,973	6.00	2,195,487	8.00	1,491,936	1,904,804	2,165,485	8.00	2,165,410	8.00		

340

**GARAGE FUND  
FY 2018-19 ADOPTED**

Code	Position Title	Actual FY 17-18	Adopted FY 18-19	New	Transfer	Reclass	Deleted	Ending FY 18-19
49	PROG COORDINATOR -PUBLIC WORKS	0.00	1.00					1.00
136	FLEET MANAGER	1.00	1.00					1.00
155	MECHANIC LEAD	1.00	1.00					1.00
163	MECHANIC 2	2.00	2.00					2.00
188	INVENTORY CONTROL TECHNICIAN	0.00	1.00					1.00
195	MECHANIC 1	2.00	2.00					2.00
	<b>Total</b>	<b>6.00</b>	<b>8.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>8.00</b>

**FY 2019-20 PROPOSED**

Code	Position Title	Ending FY 18-19	New	Transfer	Reclass	Deleted	Proposed FY 19-20
49	PROG COORDINATOR -PUBLIC WORKS	1.00					1.00
136	FLEET MANAGER	1.00					1.00
155	MECHANIC LEAD	1.00					1.00
163	MECHANIC 2	2.00					2.00
188	INVENTORY CONTROL TECHNICIAN	1.00					1.00
195	MECHANIC 1	2.00					2.00
	<b>Total</b>	<b>8.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>8.00</b>

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 602 GARAGE FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
CLASS: 05 BEGINNING WORKING CAPITAL													
301	BEGINNING WORKING CAPITAL												
	98,174		103,315		165,079		165,079	296,006		295,931			
TOTAL CLASS: 05 BEGINNING WORKING CAPITAL													
	98,174		103,315		165,079		165,079	296,006		295,931			
CLASS: 35 MISCELLANEOUS REVENUES													
382	SALE OF CITY OR BURA PROPERTY												
	6,490		37,778				3,500						
384	INVESTMENT INTEREST EARNINGS												
	1,630		2,085		3,500		3,500	3,900		3,900			
389	MISCELLANEOUS REVENUES												
			2,545				152	100		100			
399	REIMBURSEMENTS - OTHER												
			50				200						
757	MED/LIFE INS PREM REFUND DISTRIBUTION												
	2,833		2,212				1,396						
TOTAL CLASS: 35 MISCELLANEOUS REVENUES													
	10,953		44,670		3,500		8,748	4,000		4,000			
CLASS: 40 INTERFUND TRANSFERS/LOANS													
411	TRSFERS FROM GENERAL FUND												
	873,605		907,338		1,125,185		1,125,185	1,079,225		1,079,225			
412	TRSFERS FROM STREET FUND												
	221,220		207,227		297,252		297,252	266,067		266,067			
419	TRSFERS FROM WATER FUND												
	99,563		112,814		137,512		137,512	134,214		134,214			
421	TRSFERS FROM SEWER FUND												
	117,391		123,957		162,292		162,292	147,652		147,652			
428	TRSFER FR BUILDING OPERATING FD												
	43,062		41,057		55,462		55,462	48,863		48,863			
430	TRANSFER FROM LIBRARY FUND												
	5,751		5,635		13,356		13,356	6,702		6,702			
440	TRSFERS FR STREET LIGHTING FUND												
	19,585		16,392		25,443		25,443						
441	TRSFERS FR STORM DRAIN FUND												
	152,946		153,645		210,406		210,406	182,756		182,756			
TOTAL CLASS: 40 INTERFUND TRANSFERS/LOANS													
	1,533,123		1,568,065		2,026,908		2,026,908	1,865,479		1,865,479			
TOTAL PROGRAM: 0000 UNRESTRICTED													
	1,642,250		1,716,050		2,195,487		2,200,735	2,165,485		2,165,410			
TOTAL DEPARTMENT: 03 REVENUE													
	1,642,250		1,716,050		2,195,487		2,200,735	2,165,485		2,165,410			

**BP WORKSHEET & JUSTIFICATION**

FUND: 602 GARAGE FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	OBJECT DESCRIPTION	JUSTIFICATIONS
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301 BEGINNING WORKING CAPITAL  
 BEGINNING WORKING CAPITAL

382 SALE OF CITY OR BURA PROPERTY  
 PROCEEDS FROM SALE OF SURPLUS PROPERTY

384 INVESTMENT INTEREST EARNINGS  
 INTEREST EARNINGS IS BASED ON AVAILABLE CASH BALANCES AND INTEREST RATES:  
 FY 16-17 BUDGETED INTEREST EARNINGS ARE BASED UPON .55%  
 FY 17-18 BUDGETED INTEREST EARNINGS ARE BASED UPON 1.10%  
 FY 18-19 BUDGETED INTEREST EARNINGS ARE BASED UPON 1.75% FY 19-20 BUDGETED INTEREST EARNINGS ARE BASED  
 UPON 3.00% \$3,900

389 MISCELLANEOUS REVENUES

399 REIMBURSEMENTS - OTHER

757 MED/LIFE INS PREM REFUND DISTRIBUTION  
 MODA MEDICAL INSURANCE PREMIUM EXPERIENCE REBATE DISTRIBUTION TO OPERATING FUNDS

411 TRSFERS FROM GENERAL FUND  
 CHARGES FOR FLEET SERVICES (FUEL & REPAIRS) \$1,079,225

412 TRSFERS FROM STREET FUND  
 CHARGES FOR FLEET SERVICES (FUEL & REPAIRS) \$266,067

419 TRSFERS FROM WATER FUND  
 CHARGES FOR FLEET SERVICES (FUEL & REPAIRS) \$134,214

421 TRSFERS FROM SEWER FUND  
 CHARGES FOR FLEET SERVICES (FUEL & REPAIRS) \$147,652

428 TRSFR FR BUILDING OPERATING FD  
 CHARGES FOR FLEET SERVICES (FUEL & REPAIRS) \$48,863

430 TRANSFER FROM LIBRARY FUND  
 CHARGES FOR FLEET SERVICES (FUEL & REPAIRS) \$6,702

440 TRSFERS FR STREET LIGHTING FUND  
 CHARGES FOR FLEET SERVICES (FUEL & REPAIRS)

441 TRSFERS FR STORM DRAIN FUND  
 CHARGES FOR FLEET SERVICES (FUEL & REPAIRS) \$182,756

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 602 GARAGE FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0762 FLEET MAINTENANCE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

049	PROG COORDINATOR -PUBLIC WORKS				51,993	1.00	53,677	73,927	1.00	73,927	1.00		
136	FLEET MANAGER												
	94,766	1.00	96,443	1.00	102,709	1.00	98,719	108,849	1.00	107,794	1.00		
155	MECHANIC LEAD												
	66,106	1.00	63,434	1.00	75,783	1.00	53,235	65,010	1.00	65,010	1.00		
163	MECHANIC 2												
	119,005	2.00	124,961	2.00	119,701	2.00	93,729	127,893	2.00	127,893	2.00		
188	INVENTORY CONTROL TECHNICIAN												
					63,401	1.00	44,411	58,417	1.00	58,417	1.00		
195	MECHANIC 1												
	103,897	2.00	97,575	2.00	99,372	2.00	90,525	106,358	2.00	106,358	2.00		
275	TEMPORARY EMPLOYEES												
			3,908		22,300		15,898						
299	PAYROLL TAXES AND FRINGES												
	249,164		216,532		378,628		295,355	387,938		390,087			

TOTAL CLASS: 05 PERSONNEL SERVICES

	632,938	6.00	602,853	6.00	913,887	8.00	745,549	928,392	8.00	929,486	8.00		
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CLASS: 10 MATERIALS & SERVICES

304	DEPARTMENT EQUIPMENT EXPENSE												
	12,739		12,502		48,000		51,000	19,600		19,600			
305	SPECIAL DEPARTMENT SUPPLIES												
	15,902		21,447		20,000		20,000	21,000		21,000			
306	NON-FLEET EQUIPMENT												
	2,552		1,156		2,500		1,500	2,000		2,000			
307	MEMBERSHIP FEES												
	120		724		920		920	920		920			
308	PERIODICALS & SUBSCRIPTIONS												
					200			200		200			
317	COMPUTER EQUIPMENT												
	1,001		661		1,442		1,303						

**BP WORKSHEET & JUSTIFICATION**

FUND: 602 GARAGE FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0762 FLEET MAINTENANCE

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

049 PROG COORDINATOR -PUBLIC WORKS

136 FLEET MANAGER

155 MECHANIC LEAD

163 MECHANIC 2

188 INVENTORY CONTROL TECHNICIAN  
 FY 2018-19 REFLECTS REDISTRIBUTION OF 1 FTE INVENTORY CONTROL TECH POSITION FROM  
 25% IN 001-85 / 25% IN 101-85 / 25% IN 501-85 / 10% IN 502-85 / 15% IN 513-85 TO 100% IN  
 THE GARAGE FUND.

195 MECHANIC 1

275 TEMPORARY EMPLOYEES

299 PAYROLL TAXES AND FRINGES  
 PAYROLL TAXES AND FRINGE BENEFITS EXPRESSED AS A PERCENTAGE OF SALARY  
 TOTALS 58.14% AS A CITY-WIDE AVERAGE AND CONSISTS OF THE FOLLOWING:  
 34.14% IN PAYROLL TAXES CONSISTING OF 7.65% FICA, AVERAGE OF 23.22% FOR  
 RETIREMENT CONTRIBUTIONS (28.45% PERS. 19.45% OPSRP GENERAL OR  
 24.08% OPSRP POLICE), AND 3.27% IN OTHER TAXES (UNEMPLOYMENT,  
 LONG TERM DISABILITY, WORKERS COMPENSATION, PEHP, AND TRIMET)  
 24.00% AS THE AVERAGE COST OF MEDICAL, DENTAL, LIFE AND AD&D INSURANCES

304 DEPARTMENT EQUIPMENT EXPENSE  
 NEW MODEL YEAR SPECIALTY TOOLS  
 MISCELLANEOUS HAND TOOLS AND BROKEN TOOL REPLACEMENT  
 ONLINE REPAIR MANUALS SUBSCRIPTION  
 SCAN TOOL LICENSE FEES  
 SCAN TOOL LICENSE FEES

305 SPECIAL DEPARTMENT SUPPLIES  
 MISC. SHOP SUPPLIES; FLOOR SOAP, DEGREASER, ABSORBENT PADS, FASTENERS, ELECTRICAL SUPPLIES  
 LATEX GLOVES, WELDING SUPPLIES, SPRAY PAINT,  
 SMALL INCIDENTALS FOR FLEET REPAIR AND MAINT CHARGED TO WORK ORDERS \$21,000

306 NON-FLEET EQUIPMENT  
 PARTS, REPAIRS AND MODIFICATION TO NON-FLEET EQUIPMENT.  
 FUNDING FOR THIS ACCOUNT IS INCLUDED IN THE CHARGES TO OTHER FUNDS

307 MEMBERSHIP FEES  
 COLUMBIA-WILLAMETTE CLEAN CITIES COALITION \$300  
 NAFA FLEET MANAGEMENT ASSOCIATION MEMBERSHIP \$500  
 PACIFIC FLEET MANAGERS ASSOCIATION \$120

308 PERIODICALS & SUBSCRIPTIONS  
 MOTORS MAGAZINE RENEWAL

317 COMPUTER EQUIPMENT

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 602 GARAGE FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0762 FLEET MAINTENANCE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
318	COMPUTER SOFTWARE												
	551												
321	TRAVEL, TRAINING & SUBSISTENCE												
	7,469		7,402		14,600		12,000	15,400		15,400			
331	VEHICLE EXPENSE												
	159,009		127,207		185,500		165,000	185,500		185,500			185,500
332	VEHICLE FUEL												
	338,166		390,448		425,000		425,000	450,000		450,000			450,000
361	UNIFORMS & SPECIAL CLOTHING												
	80												
					3,700		5,000	6,000		6,000			6,000
371	EQUIPMENT OPER & MAINT EXPENSE												
	89,812		85,790		102,600		95,000	107,700		107,700			107,700
481	OTHER EXPENSES												
	306		362		300		950	624		624			624
511	PROFESSIONAL SERVICES												
	117,234		117,198		146,099		120,000	120,000		120,000			120,000
TOTAL CLASS: 10 MATERIALS & SERVICES													
	744,941		764,897		950,861		897,673	928,944		928,944			928,944
CLASS: 15 CAPITAL OUTLAY													
671	EQUIPMENT												
					50,034		50,034						
TOTAL CLASS: 15 CAPITAL OUTLAY													
					50,034		50,034						
CLASS: 25 TRANSFERS													
804	TRSFR - OPERATIONS ADMIN												
	78,409		86,072		106,201		106,201	118,894		110,266			
805	TRSFR TO G/F BLDG MAINT												
	3,616		4,454		4,335		4,335	4,596		4,596			
818	TRSFRS TO ISD-ALLOCATED												
	38,166		45,699		54,014		54,014	56,479		56,495			
819	TRSFRS TO INSURANCE FUND												
	40,868		46,998		46,998		46,998	58,747		58,747			
TOTAL CLASS: 25 TRANSFERS													
	161,059		183,223		211,548		211,548	238,716		230,104			

**BP WORKSHEET & JUSTIFICATION**

FUND: 602 GARAGE FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0762 FLEET MAINTENANCE

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS
318	COMPUTER SOFTWARE NO APPROPRIATION REQUESTED
321	TRAVEL, TRAINING & SUBSISTENCE TRAVEL AND SUBSISTENCE TO SUPPORT TRAINING DRIVABILITY AND EMISSION DIAGNOSTICS TRAINING (DEQ MANDATE) TRAINING TO KEEP UP WITH CHANGING AUTOMOTIVE/EQUIPMENT TECHNOLOGY RTA USERS TRAINING SWEEPER TRAINING GOV FLEET EXPO
331	VEHICLE EXPENSE PARTS AND REPAIRS FOR CITY VEHICLES; PREPARE NEW VEHICLES FOR SERVICE; ADD 3% FOR ADDITIONAL VEHICLES PURCHASED AND AGING ADD 3% FOR INFLATION COSTS DOWN FY19 DUE TO MECH 2 VACANCY \$185,500
332	VEHICLE FUEL FUEL FOR ALL CITY VEHICLES AND EQUIPMENT. REFLECTS OREGON FUEL TAX INCREASE .04 CENTS USAGE UP 5000 GALLONS OVER 2016 CAL YR
361	UNIFORMS & SPECIAL CLOTHING RAIN GEAR AND SAFETY GEAR \$2,000 UNIFORMS FOR STAFF - SHOP RAGS AND POLISHING TOWELS \$4,000
371	EQUIPMENT OPER & MAINT EXPENSE PARTS AND REPAIRS FOR CITY EQUIPMENT & PREPARE NEW EQUIPMENT FOR SERVICE ADD 3% FOR INFLATION
481	OTHER EXPENSES NEW EMPLOYEE CDL \$324 NEW MOTORCYCLE ENDORCEMENT \$300
511	PROFESSIONAL SERVICES OUTSIDE REPAIRS AND MAINTENANCE SERVICE ON THE CITY'S FLEET PAINT MISC FLEET VEHICLES AND EQUIPMENT ANNUAL AERIAL, DIELECTRIC AND CRANE INSPECTIONS \$120,000
671	EQUIPMENT FY 2018-19 BUDGET REFLECTS PURCHASING FALL PROTECTION EQUIPMENT AND FORKLIFT
804	TRSFR - OPERATIONS ADMIN ALLOCATION OF SERVICES PROVIDED BY THE PUBLIC WORKS ADMINISTRATION FUND \$110,266
805	TRSFR TO G/F BLDG MAINT ALLOCATION OF BUILDING MAINTENANCE SERVICES PROVIDED BY THE GENERAL FUND \$4,596
818	TRSFERS TO ISD-ALLOCATED ALLOCATION OF SERVICES PROVIDED BY THE INFORMATION SYSTEMS FUND \$47,495 SOFTWARE MAINTENANCE COSTS - RTA FLEET SOFTWARE SYSTEM \$9,000
819	TRSFERS TO INSURANCE FUND ALLOCATION OF CHARGES FOR GENERAL LIABILITY AND PROPERTY INSURANCE. \$58,747

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 602 GARAGE FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0762 FLEET MAINTENANCE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 30 FUND BAL/CONTINGENCY/RESERVES

991 CONTINGENCY - UNRESERVED

69,157 69,433 76,876

TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES

69,157 69,433 76,876

TOTAL PROGRAM: 0762 FLEET MAINTENANCE

1,538,938 6.00 1,550,973 6.00 2,195,487 8.00 1,904,804 2,165,485 8.00 2,165,410 8.00

TOTAL DEPARTMENT: 85 PUBLIC WORKS - OPERATIONS

1,538,938 6.00 1,550,973 6.00 2,195,487 8.00 1,904,804 2,165,485 8.00 2,165,410 8.00

TOTAL FUND: 602 GARAGE FUND

1,538,938 6.00 1,550,973 6.00 2,195,487 8.00 1,904,804 2,165,485 8.00 2,165,410 8.00

City of Beaverton - Finance  
Budget Preparation - 2020

## BP WORKSHEET & JUSTIFICATION

FUND: 602 GARAGE FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

PROGRAM: 0762 FLEET MAINTENANCE

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

991 CONTINGENCY - UNRESERVED


**ESTIMATE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
602-85	PUBLIC WORKS - OPERATIONS											
602-85-0762-05-049	PROG COORDINATOR -PUBLIC	1.00	1,645	42		51,599	1,808		270	53,677	34,085	87,762
602-85-0762-05-136	FLEET MANAGER	1.00	2,081			98,719				98,719	63,788	162,507
602-85-0762-05-155	MECHANIC LEAD	1.00	1,956	27		52,233	1,002			53,235	37,850	91,085
602-85-0762-05-163	MECHANIC 2	2.00	3,166	60		90,851	2,578		300	93,729	62,714	156,443
602-85-0762-05-188	INVENTORY CONTROL TECHNICIAN	1.00	1,637	10		43,729	382		300	44,411	26,494	70,905
602-85-0762-05-195	MECHANIC 1	2.00	3,904	60		88,335	1,740		450	90,525	69,065	159,590
602-85-0762-05-275	TEMPORARY EMPLOYEES		745	20		15,274	624			15,898	1,359	17,257
	FLEET MAINTENANCE	8.00	15,134	219		440,740	8,134		1,320	450,194	295,355	745,549
	**** DEPARTMENT TOTAL ****	8.00	15,134	219		440,740	8,134		1,320	450,194	295,355	745,549

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**PROPOSE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

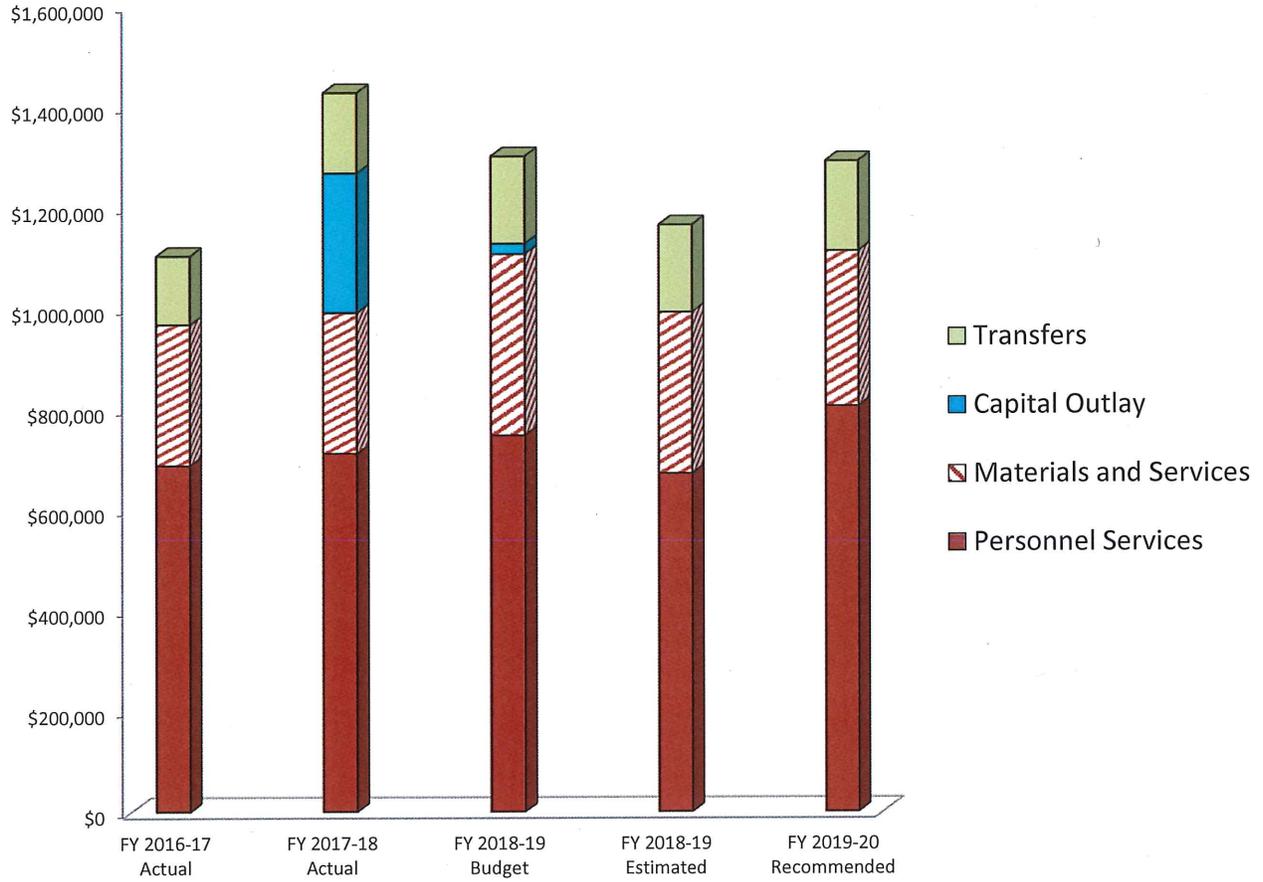
ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
602-85	PUBLIC WORKS - OPERATIONS											
602-85-0762-05-049	PROG COORDINATOR -PUBLIC	1.00	2,120	40		71,578	1,947		402	73,927	49,786	123,713
602-85-0762-05-136	FLEET MANAGER	1.00	2,216			107,794				107,794	74,693	182,487
602-85-0762-05-155	MECHANIC LEAD	1.00	2,120	40		62,963	1,782		265	65,010	47,014	112,024
602-85-0762-05-163	MECHANIC 2	2.00	4,240	80		123,758	3,496		639	127,893	90,612	218,505
602-85-0762-05-188	INVENTORY CONTROL TECHNICIAN	1.00	2,116	20		57,422	791		204	58,417	36,519	94,936
602-85-0762-05-195	MECHANIC 1	2.00	4,240	80		103,066	2,802		490	106,358	91,463	197,821
	FLEET MAINTENANCE	8.00	17,052	260		526,581	10,818		2,000	539,399	390,087	929,486
	**** DEPARTMENT TOTAL ****	8.00	17,052	260		526,581	10,818		2,000	539,399	390,087	929,486

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# PUBLIC WORKS ADMINISTRATION FUND

## RECOMMENDED FY 19-20



**CITY OF BEAVERTON**

**BUDGET TREND ANALYSIS - FY 2016-17 TO FY 2019-20**

With Explanations on Significant Changes between Budgeted 2018-19 and Recommended 2019-20

<b>Fund: Public Works Administration Fund - Summary</b>						<b>% Change</b>
<b>CLASS</b>	<b>Actual</b>	<b>Actual</b>	<b>Budget</b>	<b>Estimated</b>	<b>Recommended</b>	<b>Budgeted Vs. Recommended</b>
	<b>FY 2016-17</b>	<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	
Personnel Services	\$691,505	\$715,162	\$750,903	\$675,431	\$808,481	7.67%
Materials and Services	278,145	277,645	357,596	318,464	306,163	-14.38%
Capital Outlay	-	275,964.00	20,940	-	-	-100.00%
Transfers	135,443	158,544	172,155	172,155	177,255	2.96%
<b>SUB-TOTAL</b>	<b>\$1,105,093</b>	<b>\$1,427,315</b>	<b>\$1,301,594</b>	<b>\$1,166,050</b>	<b>\$1,291,899</b>	
Contingency			14,632		48,902	
<b>TOTAL</b>	<b>\$1,105,093</b>	<b>\$1,427,315</b>	<b>\$1,316,226</b>	<b>\$1,166,050</b>	<b>\$1,340,801</b>	
<b>FTE's</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>		<b>6.00</b>	

**Explanation of item(s) that are significant (10% and greater than \$10,000):**

**Personnel services:**

FY 2019-20 reflects step increases, COLA increases for BPA, SEIU, management averaging 2.87% in total, and a 3% VEBA (Voluntary Employees Beneficiary Association Plan) for management and a 1% increase to the VEBA for SEIU. Also shown are an average 0.63% increase in PERS contributions, medical insurance cost increase of 8% for Kaiser, 1.74% increase in MODA plans and 2% increase for Dental.

**Materials and services:**

FY 2019-20 reflects a decrease in professional services of \$40K mostly attributable to the one time cost of \$60K in FY 2018-19 for the fencing around the 160th storage site.

**Capital Outlay:**

FY 2019-20 reflects no appropriations for capital improvements after the completion of an upgrade to the heavy duty vehicle hoist in the garage.

**Transfers:**

No significant change

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 605 PUBLIC WORKS ADMINISTRATION	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>DEPARTMENT HEAD:</b> DAVID DONALDSON	

**MISSION STATEMENT:**

To maintain and ensure the long term integrity of the city's infrastructure in an integrated fashion that supports department program goals, and City Council Goals. Continue to foster effective partnerships with other departments, other local jurisdictions and community groups to deliver high quality services.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION	6.00	6.00	6.00	6.00	0.00
PERSONNEL SERVICES	\$691,505	\$715,162	\$750,903	\$808,481	\$0
MATERIALS & SERVICES	278,145	277,645	357,596	306,163	0
CAPITAL OUTLAY	0	275,964	20,940	0	0
TRANSFERS	135,443	158,544	172,155	177,255	0
CONTINGENCY	0	0	14,632	48,902	0
<b>TOTAL</b>	<b>\$1,105,093</b>	<b>\$1,427,315</b>	<b>\$1,316,226</b>	<b>\$1,340,801</b>	<b>\$0</b>

Funding Sources	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2019-20
Beginning Working Capital	\$90,900	\$135,986	\$95,970	\$151,744	\$0
Miscellaneous Revenue	7,597	175,855	2,900	3,700	0
Public Works Management:					
General Fund	168,720	184,263	166,888	151,616	0
Street Fund	251,953	255,059	251,985	284,899	0
Water Fund	197,088	249,697	288,261	261,881	0
Sewer Fund	163,634	134,074	131,538	140,175	0
Garage Fund	78,409	86,072	106,201	110,266	0
Street Lighting Fund	30,057	32,994	34,895	0	0
Storm Drain Fund	252,722	269,284	237,588	236,520	0

**Program Goal:**

To deliver high quality services that preserves and enhances the value of the city's facilities and infrastructure. Maintain an exceptional and efficient standard of service delivery that is fully responsive to a request or a need for service.

**Program Objective:**

Administer the staff in the city's Operations and Engineering Divisions by providing direction and support. Ensure that the staff is properly trained and equipped to complete assigned duties as required.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET  
CURRENT LEVEL OF SERVICES

<b>FUND:</b> 605 PUBLIC WORKS ADMINISTRATION	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 0681 MANAGEMENT SERVICES	<b>PROGRAM MANAGER:</b> TERI CUNNINGHAM

**Program Objective:**

Coordinate the efforts of the Operations and Engineering Divisions in completing annual work plans including support of city redevelopment efforts. Provide timely and accurate information about work activities to interested partners including neighborhoods, businesses and community groups. Continue to develop partnerships with community organizations and other local jurisdictions to cooperatively address city and regional needs.

Provide excellent customer service by returning contact within one day and acting on a service request as quickly as possible. Complete requests for limited service within one day. A major aspect of management services is to accomplish the city's goals and objectives that pertain to Public Works. Public Works play critical roles in achieving these City Council priorities:

- City Council Priority – Build stronger relationships among local special districts
- City Council Priority – Evaluate policies for managing city-owned property.

**Progress on FY 2018-19 Action Plan:**

The department has focused on fostering better communication between the Operations and Engineering divisions and with the Community Development Department. Additionally, the department became accredited by the American Public Works Association (APWA). The purpose of the accreditation is to provide a means of formally verifying and recognizing public works agencies for compliance with the recommended practices set forth by the APWA. The accreditation process assisted our department in memorializing many of the standards and procedures that the department has in place, while identifying areas where we can improve and create new best practices. The City of Beaverton is the 4<sup>th</sup> accredited agency in the state of Oregon and 154<sup>th</sup> in the country.

**FY 2019-20 Action Plan:**

The effort to work closely within the department and with other city departments will continue. Our asset management software will be integrated to better document and track customer service requests. Additionally, staff plans on working on a facilities plan to prepare for future growth. The Operations Building which houses the majority of Public Works employees is currently at capacity. Staff will also continue to attend meetings and be actively involved in the Willamette Water System Supply Project.

<b>Performance Measures:</b>	<b>FY 2016-17 Actual</b>	<b>FY 2017-18 Actual</b>	<b>FY 2018-19 Budgeted/Revised</b>	<b>FY 2019-20 Proposed</b>
Percentage of labor hours captured on work orders.	95%	95%	95% / 95%	95%
Employee time loss hours due to work-related injuries.	0.7%	0.5%	0.5% / 0.5%	0.5%
Number of unanticipated requests for service via email and phone calls.	5,900	5,200	5,000 / 5,000	5,000

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 605 PUBLIC WORKS ADMIN FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 BEGINNING WORKING CAPITAL

301 BEGINNING WORKING CAPITAL

	-90,900		-135,986		-95,970		-95,970	-95,970	-107,781		-151,744			
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TOTAL CLASS: 05 BEGINNING WORKING CAPITAL

	-90,900		-135,986		-95,970		-95,970	-95,970	-107,781		-151,744			
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CLASS: 35 MISCELLANEOUS REVENUES

384 INVESTMENT INTEREST EARNINGS

	-1,368		-2,137		-2,900		-2,298	-2,900	-3,700		-3,700			
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389 MISCELLANEOUS REVENUES

	-6,079		-2,295				-1,190	-1,500						
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399 REIMBURSEMENTS - OTHER

	-150		-170,872											
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757 MED/LIFE INS PREM REFUND DISTRIBUTION

			-551				-68	-68						
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TOTAL CLASS: 35 MISCELLANEOUS REVENUES

	-7,597		-175,855		-2,900		-3,556	-4,468	-3,700		-3,700			
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CLASS: 40 INTERFUND TRANSFERS/LOANS

411 TRSFERS FROM GENERAL FUND

	-168,720		-184,263		-166,888		-139,073	-166,888	-163,479		-151,616			
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412 TRSFERS FROM STREET FUND

	-251,953		-255,059		-251,985		-206,967	-251,985	-277,468		-284,899			
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419 TRSFERS FROM WATER FUND

	-197,088		-249,697		-288,261		-240,218	-288,261	-282,373		-261,881			
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421 TRSFERS FROM SEWER FUND

	-163,634		-134,074		-131,538		-109,615	-131,538	-128,851		-140,175			
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425 TRSFERS FROM GARAGE FUND

	-78,409		-86,072		-106,201		-88,501	-106,201	-118,894		-110,266			
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440 TRSFERS FR STREET LIGHTING FUND

356

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 605 PUBLIC WORKS ADMIN FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	-30,057		-32,994		-34,895		-29,079	-34,895						
441	TRSFERS FR STORM DRAIN FUND													
	-252,722		-269,284		-237,588		-197,990	-237,588	-232,735		-236,520			
TOTAL CLASS: 40 INTERFUND TRANSFERS/LOANS														
	-1,142,583		-1,211,443		-1,217,356		-1,011,443	-1,217,356	-1,203,800		-1,185,357			
TOTAL DEPARTMENT: 03 REVENUE														
	-1,241,080		-1,523,284		-1,316,226		-1,110,969	-1,317,794	-1,315,281		-1,340,801			

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 605 PUBLIC WORKS ADMIN FUND DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

015 ASSISTANT PUBLIC WORKS DIRECTOR

94,092 1.00

061 PUBLIC WORKS DIRECTOR

151,411 1.00 154,240 1.00 158,087 1.00 124,361 157,727 167,704 1.00 166,086 1.00

076 OFFICE SUPERVISOR

66,833 1.00 69,372 1.00 74,794 1.00 56,357 72,485 79,704 1.00 78,937 1.00

085 PROJECT MANAGER 1

85,543 1.00 84,629 1.00 91,907 1.00 52,097 50,331 84,008

095 MANANGEMENT ANALYST

68,761 1.00 74,281 1.00 79,270 1.00 59,300 78,950 82,494 1.00 81,696 1.00

221 SUPPORT SPECIALIST 2

48,474 1.00 51,566 1.00 55,881 1.00 41,595 54,914 60,694 1.00 60,694 1.00

239 SUPPORT SPECIALIST 1

34,087 1.00 38,997 1.00 37,470 1.00 32,916 43,888 48,769 1.00 48,769 1.00

299 PAYROLL TAXES AND FRINGES

236,396 242,077 253,494 169,919 217,136 241,387 278,207

TOTAL CLASS: 05 PERSONNEL SERVICES

691,505 6.00 715,162 6.00 750,903 6.00 536,545 675,431 764,760 5.00 808,481 6.00

CLASS: 10 MATERIALS & SERVICES

301 OFFICE EXPENSE

3,332 3,107 5,000 3,196 1,904 5,000 4,000

304 DEPARTMENT EQUIPMENT EXPENSE

4,693

305 SPECIAL DEPARTMENT SUPPLIES

2,020 2,498 2,500 2,324 2,500 3,000 3,000

307 MEMBERSHIP FEES

1,897 1,440 2,000 671 1,329 2,000 2,000

308 PERIODICALS & SUBSCRIPTIONS

358

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 605 PUBLIC WORKS ADMIN FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	66		100		100		127	100	100		100			
317	COMPUTER EQUIPMENT													
			805								1,920			
318	COMPUTER SOFTWARE													
			28,000											
321	TRAVEL, TRAINING & SUBSISTENCE													
	6,754		2,223		5,000		2,732	4,223	5,000		5,000			
328	MEALS & RELATED EXPENSE													
	504		1,342		2,000		1,001	727	1,500		1,500			
330	MILEAGE REIMBURSEMENT													
	660		1,051		1,800		941	1,144	1,800		1,800			
341	COMMUNICATIONS EXPENSE													
	46,127		68,211		70,750		52,726	70,750	69,048		71,218			
342	DATA COMMUNICATION EXPENSE													
	23,062		21,211		21,120		12,790	19,200	21,120		21,600			
351	UTILITIES EXPENSE													
	64,264		65,604		60,000		48,203	60,000	60,000		60,000		60,000	
361	UNIFORMS & SPECIAL CLOTHING													
	19,960		14,795		18,000		17,349	18,000	20,000		20,000			
381	BUILDING EXPENSE													
	10,668		10,538		32,125		31,034	32,125	32,500		32,500			
384	BUILDING MAINTENANCE PROJECTS													
	34,683		9,793		38,000				38,000		21,500			
461	SPECIAL EXPENSE													
	135		285		195		2,488	195	195		195			
481	OTHER EXPENSES													
	6,116		4,901		4,296		4,005	4,296	4,520		4,520			
511	PROFESSIONAL SERVICES													
	46,886		34,464		87,500		110,500	94,734	48,100		48,100			
536	MAINTENANCE CONTRACTS													
	2,416		3,167		3,500		2,794	3,500	3,500		3,500			

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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 605 PUBLIC WORKS ADMIN FUND

DEPT: 85 PUBLIC WORKS - OPERATIONS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
551	RENTS AND LEASES													
	3,902		4,110		3,710		3,737	3,737	3,710		3,710			
TOTAL CLASS: 10 MATERIALS & SERVICES														
	278,145		277,645		357,596		296,618	318,464	319,093		306,163			
CLASS: 15 CAPITAL OUTLAY														
681	IMPROVEMENTS													
			275,964		20,940									
TOTAL CLASS: 15 CAPITAL OUTLAY														
			275,964		20,940									
CLASS: 25 TRANSFERS														
803	TRFSR TO GENERAL FD-LANDSCAPE													
	69,355		80,215		83,669		69,724	83,669	88,269		88,269			
816	TRFSRS TO REPROGRAPHICS FUND													
	22,358		24,219		25,506		10,995	25,506	26,820		25,322			
818	TRFSRS TO ISD-ALLOCATED													
	43,730		54,110		62,980		52,483	62,980	65,751		63,664			
TOTAL CLASS: 25 TRANSFERS														
	135,443		158,544		172,155		133,202	172,155	180,840		177,255			
CLASS: 30 FUND BAL/CONTINGENCY/RESERVES														
991	CONTINGENCY - UNRESERVED													
					14,632				50,588		48,902			
TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES														
					14,632				50,588		48,902			
TOTAL DEPARTMENT: 85 PUBLIC WORKS - OPERATIONS														
	1,105,093	6.00	1,427,315	6.00	1,316,226	6.00	966,365	1,166,050	1,315,281	5.00	1,340,801	6.00		

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**PUBLIC WORKS ADMINISTRATION FUND  
FY 2018-19 ADOPTED**

Code	Position Title	Actual FY 17-18	Adopted FY 18-19	New	Transfer	Reclass	Deleted	Ending FY 18-19
15	ASSISTANT PUBLIC WORKS DIRECTOR	0.00	0.00					0.00
61	PUBLIC WORKS DIRECTOR	1.00	1.00					1.00
76	OFFICE SUPERVISOR	1.00	1.00					1.00
85	PROJECT MANAGER 1	1.00	1.00					1.00
95	MANANGEMENT ANALYST	1.00	1.00					1.00
221	SUPPORT SPECIALIST 2	1.00	1.00					1.00
239	SUPPORT SPECIALIST 1	1.00	1.00					1.00
	<b>Total</b>	<b>6.00</b>	<b>6.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>6.00</b>

**FY 2019-20 PROPOSED**

Code	Position Title	Ending FY 18-19	New	Transfer	Reclass	Deleted	Proposed FY 19-20
15	ASSISTANT PUBLIC WORKS DIRECTOR	0.00	1.00 <sup>a</sup>				1.00
61	PUBLIC WORKS DIRECTOR	1.00					1.00
76	OFFICE SUPERVISOR	1.00					1.00
85	PROJECT MANAGER 1	1.00		(1.00) <sup>b</sup>			0.00
95	MANANGEMENT ANALYST	1.00					1.00
221	SUPPORT SPECIALIST 2	1.00					1.00
239	SUPPORT SPECIALIST 1	1.00					1.00
	<b>Total</b>	<b>6.00</b>	<b>1.00</b>	<b>(1.00)</b>	<b>0.00</b>	<b>0.00</b>	<b>6.00</b>

<sup>a</sup> FY 2019-20 establishes a new 1 FTE Assistant Public Works Director position.

<sup>b</sup> FY 2019-20 transfers 1 FTE Project Manager from the Public Works Administration Fund to the Street Fund.



City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 605 PUBLIC WORKS ADMIN FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
CLASS: 05 BEGINNING WORKING CAPITAL													
301	BEGINNING WORKING CAPITAL												
	90,900		135,986		95,970		95,970	107,781		151,744			
TOTAL CLASS: 05 BEGINNING WORKING CAPITAL													
	90,900		135,986		95,970		95,970	107,781		151,744			
CLASS: 35 MISCELLANEOUS REVENUES													
384	INVESTMENT INTEREST EARNINGS												
	1,368		2,137		2,900		2,900	3,700		3,700			
389	MISCELLANEOUS REVENUES												
	6,079		2,295				1,500						
399	REIMBURSEMENTS - OTHER												
	150		170,872										
757	MED/LIFE INS PREM REFUND DISTRIBUTION												
			551				68						
TOTAL CLASS: 35 MISCELLANEOUS REVENUES													
	7,597		175,855		2,900		4,468	3,700		3,700			
CLASS: 40 INTERFUND TRANSFERS/LOANS													
411	TRSFERS FROM GENERAL FUND												
	168,720		184,263		166,888		166,888	163,479		151,616			
412	TRSFERS FROM STREET FUND												
	251,953		255,059		251,985		251,985	277,468		284,899			
419	TRSFERS FROM WATER FUND												
	197,088		249,697		288,261		288,261	282,373		261,881			
421	TRSFERS FROM SEWER FUND												
	163,634		134,074		131,538		131,538	128,851		140,175			
425	TRSFERS FROM GARAGE FUND												
	78,409		86,072		106,201		106,201	118,894		110,266			
440	TRSFERS FR STREET LIGHTING FUND												
	30,057		32,994		34,895		34,895						
441	TRSFERS FR STORM DRAIN FUND												
	252,722		269,284		237,588		237,588	232,735		236,520			
TOTAL CLASS: 40 INTERFUND TRANSFERS/LOANS													
	1,142,583		1,211,443		1,217,356		1,217,356	1,203,800		1,185,357			
TOTAL PROGRAM: 0000 UNRESTRICTED													
	1,241,080		1,523,284		1,316,226		1,317,794	1,315,281		1,340,801			
TOTAL DEPARTMENT: 03 REVENUE													
	1,241,080		1,523,284		1,316,226		1,317,794	1,315,281		1,340,801			

**BP WORKSHEET & JUSTIFICATION**

FUND: 605 PUBLIC WORKS ADMIN FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 0000 UNRESTRICTED

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

301 BEGINNING WORKING CAPITAL

384 INVESTMENT INTEREST EARNINGS  
 INTEREST EARNINGS IS BASED ON AVAILABLE CASH BALANCES AND INTEREST RATES:  
 FY 16-17 BUDGETED INTEREST EARNINGS ARE BASED UPON .55%  
 FY 17-18 BUDGETED INTEREST EARNINGS ARE BASED UPON 1.10%  
 FY 18-19 BUDGETED INTEREST EARNINGS ARE BASED UPON 1.75% FY 19-20 BUDGETED INTEREST EARNINGS ARE BASED UPON 3.00% \$3,700

389 MISCELLANEOUS REVENUES  
 SALE OF RECYCABLE MATERIALS

399 REIMBURSEMENTS - OTHER  
 FY 2017-18 RELLECTS REIMBURSEMENT FROM THE CITY'S INSURANCE CARRIER FOR THE REPLACEMENT OF THE HOIST THAT WAS DAMAGED

757 MED/LIFE INS PREM REFUND DISTRIBUTION  
 MODA MEDICAL INSURANCE PREMIUM EXPERIENCE REBATE DISTRIBUTION TO OPERATING FUNDS

411 TRSFERS FROM GENERAL FUND  
 ALLOCATION OF CHARGES FOR OPERATIONS ADMIN AND FACILITIES SERVICES. \$151,616

412 TRSFERS FROM STREET FUND  
 ALLOCATION OF CHARGES FOR OPERATIONS ADMIN AND FACILITIES SERVICES \$284,899

419 TRSFERS FROM WATER FUND  
 ALLOCATION OF CHARGES FOR OPERATIONS ADMIN AND FACILITIES SERVICES \$261,881

421 TRSFERS FROM SEWER FUND  
 ALLOCATION OF CHARGES FOR OPERATIONS ADMIN AND FACILITIES SERVICES \$140,175

425 TRSFERS FROM GARAGE FUND  
 ALLOCATION OF CHARGES FOR OPERATIONS ADMIN AND FACILITIES SERVICES \$110,266

440 TRSFERS FR STREET LIGHTING FUND  
 FUND 111 IS BEING CLOSED AND COMBINED WITH STREET FUND 101

441 TRSFERS FR STORM DRAIN FUND  
 ALLOCATION OF CHARGES FOR OPERATIONS ADMIN AND FACILITIES SERVICES \$236,520

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 605 PUBLIC WORKS ADMIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0681 MANAGEMENT SERVICES(OPERATION)

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 PERSONNEL SERVICES

015	ASSISTANT PUBLIC WORKS DIRECTOR												94,092	1.00
061	PUBLIC WORKS DIRECTOR													
	151,411	1.00	154,240	1.00	158,087	1.00	157,727	167,704	1.00	166,086	1.00			
076	OFFICE SUPERVISOR													
	66,833	1.00	69,372	1.00	74,794	1.00	72,485	79,704	1.00	78,937	1.00			
085	PROJECT MANAGER 1													
	85,543	1.00	84,629	1.00	91,907	1.00	50,331	84,008						
095	MANANGEMENT ANALYST													
	68,761	1.00	74,281	1.00	79,270	1.00	78,950	82,494	1.00	81,696	1.00			
221	SUPPORT SPECIALIST 2													
	48,474	1.00	51,566	1.00	55,881	1.00	54,914	60,694	1.00	60,694	1.00			
239	SUPPORT SPECIALIST 1													
	34,087	1.00	38,997	1.00	37,470	1.00	43,888	48,769	1.00	48,769	1.00			
299	PAYROLL TAXES AND FRINGES													
	236,396		242,077		253,494		217,136	241,387		278,207				

TOTAL CLASS: 05 PERSONNEL SERVICES

	691,505	6.00	715,162	6.00	750,903	6.00	675,431	764,760	5.00	808,481	6.00		
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CLASS: 10 MATERIALS & SERVICES

301	OFFICE EXPENSE													
	3,332		3,107		5,000		1,904	5,000		4,000				
304	DEPARTMENT EQUIPMENT EXPENSE													
	4,693													
305	SPECIAL DEPARTMENT SUPPLIES													
	2,020		2,498		2,500		2,500	3,000		3,000				
307	MEMBERSHIP FEES													
	1,897		1,440		2,000		1,329	2,000		2,000				
308	PERIODICALS & SUBSCRIPTIONS													
	66		100		100		100	100		100				
317	COMPUTER EQUIPMENT													
			805							1,920				
318	COMPUTER SOFTWARE													
			28,000											

**BP WORKSHEET & JUSTIFICATION**

FUND: 605 PUBLIC WORKS ADMIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0681 MANAGEMENT SERVICES(OPERATION)

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

- 015 ASSISTANT PUBLIC WORKS DIRECTOR  
 FY 19-20 REFLECTS A NEW 1 FTE ASSISTANT PUBLIC WORKS DIRECTOR POSITION.
- 061 PUBLIC WORKS DIRECTOR
- 076 OFFICE SUPERVISOR
- 085 PROJECT MANAGER 1  
 FY 2019-20 REFLECTS A PROJECT MANAGER POSITION TRANSFERRING FROM THE PUBLIC WORKS ADMIN FUND TO THE STREET FUND - PROGRAM 0732.
- 095 MANANGEMENT ANALYST
- 221 SUPPORT SPECIALIST 2
- 239 SUPPORT SPECIALIST 1
- 299 PAYROLL TAXES AND FRINGES  
 PAYROLL TAXES AND FRINGE BENEFITS EXPRESSED AS A PERCENTAGE OF SALARY TOTALS 58.14% AS A CITY-WIDE AVERAGE AND CONSISTS OF THE FOLLOWING:  
 34.14% IN PAYROLL TAXES CONSISTING OF 7.65% FICA, AVERAGE OF 23.22% FOR RETIREMENT CONTRIBUTIONS (28.45% PERS. 19.45% OPSRP GENERAL OR 24.08% OPSRP POLICE), AND 3.27% IN OTHER TAXES (UNEMPLOYMENT, LONG TERM DISABILITY, WORKERS COMPENSATION, PEHP, AND TRIMET)  
 24.00% AS THE AVERAGE COST OF MEDICAL, DENTAL, LIFE AND AD&D INSURANCES

- 301 OFFICE EXPENSE  
 OFFICE SUPPLIES. \$4,000
- 304 DEPARTMENT EQUIPMENT EXPENSE
- 305 SPECIAL DEPARTMENT SUPPLIES  
 BATTERIES,  
 OPERATIONS DEPARTMENT FIRST AID  
 BLUEPRINT PRESERVATION \$3,000
- 307 MEMBERSHIP FEES  
 COOPERATIVE PUBLIC AGENCIES OF WASHINGTON COUNTY MEMBERSHIP (ANNUAL).  
 PROFESSIONAL REGISTRATION RENEWAL  
 APWA MEMBERSHIP FOR DIRECTOR  
 ICMA MEMBERSHIP  
 INCREASE FOR APWA FEE \$2,000
- 308 PERIODICALS & SUBSCRIPTIONS  
 VALLEY TIMES \$100
- 317 COMPUTER EQUIPMENT  
 COMPUTER AND MONITORS FOR NEW ASST. PW DIRECTOR POSITION \$1,920
- 318 COMPUTER SOFTWARE

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 605 PUBLIC WORKS ADMIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0681 MANAGEMENT SERVICES(OPERATION)

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
321	TRAVEL, TRAINING & SUBSISTENCE												
	6,754		2,223		5,000		4,223	5,000		5,000			
328	MEALS & RELATED EXPENSE												
	504		1,342		2,000		727	1,500		1,500			
330	MILEAGE REIMBURSEMENT												
	660		1,051		1,800		1,144	1,800		1,800			
341	COMMUNICATIONS EXPENSE												
	46,127		68,211		70,750		70,750	69,048		71,218			
342	DATA COMMUNICATION EXPENSE												
	23,062		21,211		21,120		19,200	21,120		21,600			
351	UTILITIES EXPENSE												
	64,264		65,604		60,000		60,000	60,000		60,000			
361	UNIFORMS & SPECIAL CLOTHING												
	19,960		14,795		18,000		18,000	20,000		20,000			
381	BUILDING EXPENSE												
	10,668		10,538		32,125		32,125	32,500		32,500			
384	BUILDING MAINTENANCE PROJECTS												
	34,683		9,793		38,000			38,000		21,500			
461	SPECIAL EXPENSE												
	135		285		195		195	195		195			
481	OTHER EXPENSES												
	6,116		4,901		4,296		4,296	4,520		4,520			
511	PROFESSIONAL SERVICES												
	46,886		34,464		87,500		94,734	48,100		48,100			

**BP WORKSHEET & JUSTIFICATION**

FUND: 605 PUBLIC WORKS ADMIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0681 MANAGEMENT SERVICES(OPERATION)

OBJ	OBJECT DESCRIPTION	JUSTIFICATIONS
321	TRAVEL, TRAINING & SUBSISTENCE	
	NWPMA	
	CPAWC	
	CWS TRAINING	
	APWA CONFERENCE	
	ODOT - HMAC INSPECTION RECERT	
	DEPARTMENT HEAD RETREAT	
	MANAGEMENT ANALYST TRAVEL	
	PUBLIC WORKS DIRECTOR TRAVEL \$5,000	
328	MEALS & RELATED EXPENSE	
	MEALS FOR LOCAL CLASSES AND/OR MEETINGS, LABOR MANAGEMENT EMPLOYEE OF THE MONTH	
	OVERTIME AND CALL OUT MEALS FOR ALL PUBLIC WORKS STAFF IN ALL FUNDS AND PROGRAMS \$1,500	
330	MILEAGE REIMBURSEMENT	
	REIMBURSEMENT FOR PERSONAL VEHICLE USE \$1,800	
341	COMMUNICATIONS EXPENSE	
	LOCAL EXCHANGE PHONE LINES TO THE OPERATIONS COMPLEX \$700 PER MONTH	
	CELL PHONES FOR OPS AND ENG STAFF 63 SMART PHONES/65 BASIC CELL PHONES @ \$4950 PER MONTH \$67,800	
	CELL PHONES FOR 2 NEW ENGINEERING ASSOCIATE POSITIONS IN ENGINEERING (2 @ \$52/MO) \$1,248	
	CELL PHONE & MONTHLY EXPENSE FOR NEW PROJECT ENGINEER 2 POSITION \$250	
	CELL PHONE & MONTHLY EXPENSE FOR NEW PW TECH IN 502-85-0753 \$480	
	CELL PHONE & MONTHLY EXPENSE FOR NEW PW LEAD SPLIT 50/50 IN 502-85-0757 & 513-85-0739 \$480	
	CELL PHONE & MONTHLY EXPENSE FOR NEW PW TECH IN 513-85-0734 \$480	
	CELL PHONE & MONTHLY EXPENSE FOR NEW ASSISTANT PW DIRECTOR \$480	
342	DATA COMMUNICATION EXPENSE	
	PUBLIC WORKS ADMIN FUND: DATA PLAN FOR 38 COMMUNICATION DEVICES - ALL DIVISIONS \$21,600	
351	UTILITIES EXPENSE	
	UTILITY EXPENSES FOR OPERATIONS COMPLEX: ELECTRICITY, NATURAL GAS, WATER AND TRASH SERVICE \$60,000	
361	UNIFORMS & SPECIAL CLOTHING	
	BASEBALL CAPS FOR PUBLIC WORKS STAFF	
	SHIRTS AND JACKETS WITH CITY LOGO	
	FOR ALL ELIGIBLE PUBLIC WORKS STAFF AS REQUIRED BY THE SEIU CONTRACT \$20,000	
381	BUILDING EXPENSE	
	PAPER PRODUCTS FOR RESTROOMS	
	LIGHTBULBS	
	ELECTRICAL WORK & SUPPLIES	
	DOOR REPAIRS	
	OTHER SUPPLIES (PAINT FILTERS, HARDWARE)	
	UNFORESEEN REPAIRS \$32,500	
384	BUILDING MAINTENANCE PROJECTS	
	UNFORESEEN PROJECTS \$20,000	
	PATCH AND REPAIR PARKING LOT \$1,500	
461	SPECIAL EXPENSE	
	UST PERMIT	
	DEQ PERMITS/AIR TANK PERMIT \$195	
481	OTHER EXPENSES	
	ORGANIZATIONAL DEVELOPMENT AND TEAM BUILDING FOR PUBLIC WORKS (113 FTE @ \$40/EACH) \$4,520	
511	PROFESSIONAL SERVICES	
	CONTRACT SERVICE FOR HOMELESS CAMP CLEAN UP \$5,000	
	JANITORIAL SERVICES FOR OPERATIONS COMPLEX BUILDINGS \$43,100	

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 605 PUBLIC WORKS ADMIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0681 MANAGEMENT SERVICES(OPERATION)

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
536	MAINTENANCE CONTRACTS												
	2,416		3,167		3,500		3,500	3,500		3,500		3,500	
551	RENTS AND LEASES												
	3,902		4,110		3,710		3,737	3,710		3,710		3,710	
TOTAL CLASS: 10 MATERIALS & SERVICES													
	278,145		277,645		357,596		318,464	319,093		306,163			
CLASS: 15 CAPITAL OUTLAY													
681	IMPROVEMENTS												
			275,964		20,940								
TOTAL CLASS: 15 CAPITAL OUTLAY													
			275,964		20,940								
CLASS: 25 TRANSFERS													
803	TRSFER TO GENERAL FD-LANDSCAPE												
	69,355		80,215		83,669		83,669	88,269		88,269		88,269	
816	TRSFERS TO REPROGRAPHICS FUND												
	22,358		24,219		25,506		25,506	26,820		25,322		25,322	
818	TRSFERS TO ISD-ALLOCATED												
	43,730		54,110		62,980		62,980	65,751		63,664		63,664	
TOTAL CLASS: 25 TRANSFERS													
	135,443		158,544		172,155		172,155	180,840		177,255		177,255	
CLASS: 30 FUND BAL/CONTINGENCY/RESERVES													
991	CONTINGENCY - UNRESERVED												
					14,632			50,588		48,902		48,902	
TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES													
					14,632			50,588		48,902		48,902	
TOTAL PROGRAM: 0681 MANAGEMENT SERVICES(OPERATION)													
	1,105,093	6.00	1,427,315	6.00	1,316,226	6.00	1,166,050	1,315,281	5.00	1,340,801	6.00	1,340,801	6.00
TOTAL DEPARTMENT: 85 PUBLIC WORKS - OPERATIONS													
	1,105,093	6.00	1,427,315	6.00	1,316,226	6.00	1,166,050	1,315,281	5.00	1,340,801	6.00	1,340,801	6.00
TOTAL FUND: 605 PUBLIC WORKS ADMIN FUND													
	1,105,093	6.00	1,427,315	6.00	1,316,226	6.00	1,166,050	1,315,281	5.00	1,340,801	6.00	1,340,801	6.00

**BP WORKSHEET & JUSTIFICATION**

FUND: 605 PUBLIC WORKS ADMIN FUND  
 DEPT: 85 PUBLIC WORKS - OPERATIONS  
 PROGRAM: 0681 MANAGEMENT SERVICES(OPERATION)

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

536 MAINTENANCE CONTRACTS  
 PEST CONTROL  
 ANNUAL FIRE SPRINKLER TESTING  
 ANNUAL FIRE ALARM TESTING  
 GENERATOR MAINTENANCE  
 FIRE ALARM MONITORING  
 ANTIFREEZE CHARGING \$3,500

551 RENTS AND LEASES  
 STORAGE SPACE LEASE AT HARVEST COURT \$3,710

681 IMPROVEMENTS  
 FY 2017-18 RELLECTS REPLACEMENT AND UPGRADE OF THE HEAVY DUTY EQUIPMENT HOIST THAT WAS DAMAGED LAST FISCAL YEAR. THE COST IS PARTLY OFFSET BY INSURANCE PROCEEDS OF \$102,583 SHOWN IN REVENUE ACCOUNT 399

803 TRSFER TO GENERAL FD-LANDSCAPE  
 ALLOCATION OF LANDSCAPE MAINTENANCE SERVICES PROVIDED BY THE GENERAL FUND \$88,269

816 TRSFERS TO REPROGRAPHICS FUND  
 ALLOCATION OF COPIER, GRAPHICS, PRINTING, MAILING, & POSTAGE CHARGES THROUGH REPROGRAPHICS \$25,322

818 TRSFERS TO ISD-ALLOCATED  
 ALLOCATION OF SERVICES PROVIDED BY THE INFORMATION SYSTEMS FUND \$63,664

991 CONTINGENCY - UNRESERVED

**ESTIMATE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
605-85	PUBLIC WORKS - OPERATIONS											
605-85-0681-05-061	PUBLIC WORKS DIRECTOR	1.00	2,080			157,727				157,727	69,205	226,932
605-85-0681-05-076	OFFICE SUPERVISOR	1.00	2,112			72,485				72,485	50,071	122,556
605-85-0681-05-085	PROJECT MANAGER 1	1.00	1,296			50,331				50,331	31,201	81,532
605-85-0681-05-095	MANAGEMENT ANALYST	1.00	2,077			78,950				78,950	29,322	108,272
605-85-0681-05-221	SUPPORT SPECIALIST 2	1.00	2,081			51,314			3,600	54,914	17,436	72,350
605-85-0681-05-239	SUPPORT SPECIALIST 1	1.00	2,080			43,888				43,888	19,901	63,789
	MANAGEMENT SERVICES	6.00	11,726			454,695			3,600	458,295	217,136	675,431
	**** DEPARTMENT TOTAL ****	6.00	11,726			454,695			3,600	458,295	217,136	675,431

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**PROPOSE - PAYROLL EXPENSE BY DEPARTMENT**

Thursday, April 18, 2019 4:17 PM

ACCOUNT	TITLE	FTE	REG HRS	OT HRS	HIL HRS	REG PAY	OT PAY	HIL PAY	ADD PAY	SALARY	FBAMT	TOT AMT
605-85	PUBLIC WORKS - OPERATIONS											
605-85-0681-05-015	ASSISTANT PUBLIC WORKS	1.00	1,736			94,092				94,092	55,073	149,165
605-85-0681-05-061	PUBLIC WORKS DIRECTOR	1.00	2,136			166,086				166,086	82,592	248,678
605-85-0681-05-076	OFFICE SUPERVISOR	1.00	2,176			78,917			20	78,937	58,072	137,009
605-85-0681-05-095	MANANGEMENT ANALYST	1.00	2,096			81,696				81,696	34,778	116,474
605-85-0681-05-221	SUPPORT SPECIALIST 2	1.00	2,096	20		56,156	778		3,760	60,694	20,975	81,669
605-85-0681-05-239	SUPPORT SPECIALIST 1	1.00	2,096	20		48,080	689			48,769	26,717	75,486
	MANAGEMENT SERVICES	6.00	12,336	40		525,027	1,467		3,780	530,274	278,207	808,481
	**** DEPARTMENT TOTAL ****	6.00	12,336	40		525,027	1,467		3,780	530,274	278,207	808,481

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**CITY OF BEAVERTON**

**BUDGET TREND ANALYSIS - FY 2016-17 TO FY 2019-20**

With Explanations on Significant Changes between Budgeted 2018-19 and Recommended 2019-20

Fund:		<b>Capital Projects</b>					% Change
CLASS	Actual FY 2016-17	Actual FY 2017-18	Budget FY 2018-19	Estimated FY 2018-19	Recommended FY 2019-20	Budgeted Vs. Recommended	
Capital Outlay	\$1,074,883	\$2,721,243	\$4,900,139	\$3,921,896	\$4,010,000	-18.17%	
SUB-TOTAL	\$1,074,883	\$2,721,243	\$4,900,139	\$3,994,531	\$4,010,000		
Contingency			95,351		25,516		
Reserves			497,847		507,547		
TOTAL	\$1,074,883	\$2,721,243	\$5,493,337	\$3,994,531	\$4,543,063		
FTE's	-	-	-	-	-		

**Explanation of item(s) that are significant (10% and greater than \$10,000):**

**Capital outlay:**

FY 2019-20 reflects a net decrease of \$900K attributable to the completion of the Menlo sidewalk project in FY 2018-19 offset by the Westgate Dr/Cedar Hills realignment project entering construction phase.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 310 CAPITAL PROJECTS	<b>DEPARTMENT:</b> PUBLIC WORKS - ENGINEERING
<b>PROGRAM:</b> TRANSPORTATION & CIVIC PROJECTS	<b>DEPARTMENT HEAD:</b> DAVID DONALDSON

**MISSION STATEMENT:**

The Capital Projects Fund manages the expenditures for improvements to the city's street infrastructure system in support of traffic and congestion management. The City's Capital Improvement Program (CIP) includes projects for a five-year period but forecasts two years of funding for projects. Most projects require multiple years to complete and typically involve design, permitting, right of way acquisition, and construction. The major sources of revenue are transfers from other funds, grants, and intergovernmental payments/reimbursements.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION					
CAPITAL OUTLAY	\$1,074,883	\$2,721,243	\$4,900,139	\$4,010,000	\$0
TRANSFERS					
CONTINGENCY	0	0	593,198	533,063	0
<b>TOTAL</b>	<b>\$1,074,883</b>	<b>\$2,721,243</b>	<b>\$5,493,337</b>	<b>\$4,543,063</b>	<b>\$0</b>

Funding Sources:	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2019-20
Beginning Working Capital	\$798,713	\$1,208,233	\$1,339,116	\$620,563	\$0
Transfers from:					
General Fund	552,582	395,366	623,621	536,000	0
Street Fund	121,478	111,183	1,440,112	575,000	0
Transportation Dev. Tax / TIF Fund	282,552	1,821,663	1,928,488	2,569,000	0
Grants	336,698	0	0	0	0
Other Intergovernmental Revenue	146,746	514,255	150,000	230,000	0
Miscellaneous Revenue	44,346	9,660	12,000	12,500	0

**Progress on the FY 2018-19 Action Plan**

- Construction of the Menlo Dr. (Allen Blvd to Fairmount Dr.) sidewalk project (CIP 3106A) is underway and is expected to be complete on 5-31-2019.
- Consultant selection for the design of the Allen Blvd/92<sup>nd</sup> Ave Shared Use Path (CIP 3106B) began in Feb 2019.
- Construction of the Crescent Connection Multi-Use Path project (CIP 3407) was completed in December 2018.
- City staff completed design changes on the 10-foot wide Denney Rd Multi-Use Path project (CIP 3410) and construction is expected to begin in the spring of 2019. The project limits have been extended east to the Denney Frontage Rd in coordination with ODOT.
- The redesign of the Westgate Dr./Cedar Hills Blvd/Dawson Way Intersection Realignment project (CIP 3321) was completed in Oct 2018 and the acquisition of right of way is underway.
- The design of the Library Fountain Improvements (CIP 3522) is expected to be 90% complete.
- The design of the Canyon Rd (Hocken Ave - Short St) Improvements (CIP 3519A) is 60% complete and the driveway impact process is nearing completion. The design of the Hocken Ave roadway improvements through the railroad crossing (CIP 3408) is coordinated with the design of CIP 3519A.
- Construction began on ADA Ramp Replacement, Phase 3 (CIP 5106C) in Nov 2018 and is expected to be complete in May 2019.
- Construction of the bridge pile replacement for the Cedar Hills Blvd Bridge (BB005) (CIP 3411) was completed in August 2018.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 310 CAPITAL PROJECTS	<b>DEPARTMENT:</b> PUBLIC WORKS - ENGINEERING
<b>PROGRAM:</b> TRANSPORTATION & CIVIC PROJECTS	<b>DEPARTMENT HEAD:</b> DAVID DONALDSON

- The City of Beaverton/ODOT IGA for the Washington Square adaptive Signal System (CIP 3201) is expected to be complete in May 2019 with design starting immediately thereafter.
- Design for the Western Ave (5<sup>th</sup> Street – Allen Blvd) Improvement (CIP 3328) is 60% complete.
- Data collection for the Murray Blvd/Allen Blvd Intersection Improvement (CIP 3329) was completed in January 2018. A traffic analysis was completed and a proposed number of lanes required to address volume issues was determined.
- The Hall Blvd (Canyon Rd – Cedar Hills Blvd) Fiber Connection Improvements (CIP 3412) was completed in September 2018.

**FY 2019-20 Action Plan:**

<b>CIP #</b>	<b>PROJECT NAME</b>	<b>Council Priority</b>
3106A	Menlo Drive (Allen Blvd to Fairmount Dr.) Sidewalk – Complete construction	X
3106B	Allen Blvd/92nd Ave Shared Use Path – Complete design and ROW acquisition	X
3106C	Laurelwood Ave (Scholls Ferry Rd – Apple Way) Sidewalks – Select consultant and begin design	X
3201	Washington Square Adaptive Signal System – Complete design	
3321	Westgate Dr. / Cedar Hills Blvd / Dawson Way Intersection Realignment - Complete construction	
3328	Western Ave (5 <sup>th</sup> St-Allen Blvd) Improvement – Complete design and right of way acquisition	X
3329	Murray Blvd/Allen Blvd Intersection Improvement – Develop public involvement plan and complete project scoping and planning level cost	
3408	Hocken Ave (RR-TV Hwy) Widening – Complete design in coordination with CIP 3519A	
3410	Denney Rd Shared Use Path – Complete construction	X
3519A	Canyon Rd (Hocken Ave – Short St) Improvements (MTIP) – Complete 90% plans and complete ROW acquisition	
3522	Library Fountain Improvements – Complete design and cost estimate	
5106D	ADA Ramp Replacement, Phase 4 – Complete construction	
3412	BH Hwy Fiber Connection – Complete construction	
3415	Barrows/Murray fiber Connection – Complete design and construction	
3416	Hall Blvd (Ridgecrest – Hwy 217) Overlay – Complete design	
5110	Wilson Dr Traffic Calming – Complete construction	
5112	Sexton Mountain Dr (Murray Blvd -155 <sup>th</sup> Ave) Traffic Calming – Complete design	
5113	Denney Rd East of 111 <sup>th</sup> Ave Crossing Improvement – Complete design and construction in coordination with THPRD	X
5114	105 <sup>th</sup> Ave Pedestrian and Bike Improvements – Complete design in coordination with ODOT and THPRD	X
5115	Pedestrian Crossing Improvements at 173 <sup>rd</sup> Ave and Autumn Ridge Park – Complete design and construction	X
5116	Pedestrian Crossing Improvements at Barrows Rd and Barrows Park – Complete design	X
5117	Neighborhood Bikeway Project 66 – Complete design and construction	X

**City of Beaverton  
CIP Financial Plan  
FY 2018-19 Estimated**

CIP #	Proj #	Project Name	Funding Source								Funding Total	
			Anticipated TOTAL Project Cost	General Fund	Street Fund	Beg Wrk Cap or Other Funds	TLT	TDT	TIF	BURA		Grants, IGA
<b>Transportation Capital Improvement Projects: Fund 310</b>												
3106	3106A	Menlo Dr (Allen Blvd to Fairmount Dr) Sidewalk	2,244,508	268,488	921,265	657,918					1,847,671	
3112	3112	Allen Blvd Shared Use Path	1,457,000		170,000						170,000	
3189	3189	Annual Traffic Calming Project	40,000		-						-	
3223	3223	Traffic Enhancement Projects									-	
3321	3321	Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment	2,519,000				580,000				580,000	
3328	3328	Western Ave (5th St-Allen Blvd) Improvement	4,485,000	88,000			87,000		100,000	175,000	450,000	
3407	3407	Beaverton Creek Shared-Use Path (Cedar Hills Blvd-Lombard Ave)	3,323,789	64,000			84,000				148,000	
3408	3408	Hocken Ave (RR-TV Hwy) Widening	2,062,000					55,225			55,225	
3410	3410	Shared Use Path along Denney Rd (King Blvd-Fanno Creek Trailhead)	982,000	267,000	267,000						534,000	
3411	3411	Cedar Hills Blvd Bridge Pile Repair	139,000		137,000						137,000	
3413	3413	Citywide Fiber Connections	80,000		100,000						100,000	
<b>TOTALS</b>				687,488	1,595,265	657,918	-	751,000	55,225	100,000	175,000	4,021,896
<b>Facility, Civic, Cultural Capital t Projects: Fund 301</b>												
3509	3509	Public Safety Center	35,000,000			33,975,323					33,975,323	
3513	3513	Property Acquisition		100,000		64,073					164,073	
3518	3518	Canyon Rd Alt Bike Network		1,250	1,250						2,500	
3519	3519A	Canyon Rd Intersection Improvements (MTIP)	5,035,000	10,000	10,000						20,000	
3521	3521	Beaverton Center for the Arts	46,500,000			1,808,925	378,085		-		2,187,010	
3522	3522	Library Fountain Improvements	1,800,000	96,325		142,821					239,146	
3523	3523	PACWEST Gas Station		890,000						35,000	925,000	
<b>TOTALS</b>				1,097,575	11,250	35,991,142	378,085	-	-	-	35,000	37,513,052
<b>BURA Capital Improvement Projects:</b>												
6502		Crescent Street Improvements					-			-	-	
	3523	Downtown Wayfinding Phase 2								-	-	
6501	5099	Parking Garage Lot 2 at The Round							397,000		397,000	
6505	5102	Parking Garage in Old Town								-	-	
6503		BURA Land Acquisition								-	-	
		Creekside Streetscape Improvements								-	-	
<b>TOTALS</b>				-	-	-	-	-	-	397,000	-	397,000
<b>Totals =&gt;</b>				1,785,063	1,606,515	36,649,060	378,085	751,000	55,225	497,000	210,000	41,931,948

**City of Beaverton  
CIP Financial Plan  
FY 2019-20 Recommended**

CIP #	Proj #	Project Name	Anticipated TOTAL Project Cost	General Fund	Street Fund	Beg Wrk Cap or Other Funds	TLT	TDT	TIF	BURA	Grants, IGA	Funding Total
3106	3106A	Menlo Dr (Allen Blvd to Fairmount Dr) Sidewalk	2,244,508		64,000							64,000
3112	3112	Allen Blvd Shared Use Path	1,457,000	170,000							80,000	250,000
3113	3113	Laurelwood Ave Sidewalk	1,187,000	172,500	172,500							345,000
3143	3143	Denney Rd East of 111th Ave Crossing Improvement	50,000		70,000							70,000
3189	3189	Annual Traffic Calming Project	40,000		20,000							20,000
3223	5110	Wilson Dr (Allen Blvd - Hart Rd) Traffic Calming	40,000			40,000						40,000
3223	5112	Sexton Mountain Dr (Murray Blvd - 155th Ave) Traffic Calming	60,000			60,000						60,000
3226	3226	Miscellaneous Transportation Projects										-
3307	3307	Utility Undergrounding/1st & Lombard										-
3321	3321	Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment	2,519,000					1,715,000				1,715,000
3328	3328	Western Ave (5th St-Allen Blvd) Improvement	4,485,000	40,000	-			120,000		-	100,000	260,000
3329	3329	Murray Blvd/Allen Blvd Intersection Improvement						70,000				70,000
3408	3408	Hocken Ave (RR-TV Hwy) Widening	2,062,000						664,000			664,000
3410	3410	Shared Use Path along Denney Rd (King Blvd-Fanno Creek Trailhead)	982,000	153,500	153,500						50,000	357,000
3413	3413	Citywide Fiber Connections			95,000							95,000
			15,126,508	536,000	575,000	100,000	-	1,905,000	664,000	-	230,000	4,010,000

**STREET FUND EXPENSES**

3416	3416	Hall Blvd (Ridgecrest Dr - Hwy 217) Overlay	1,400,000		-							-
		Annual Paving of local streets	1,200,000		1,200,000							1,200,000
		Annual Savings for Paving Arterial & Collector	1,800,000		1,800,000							1,800,000
5106D	5106D	ADA Ramp Replacement, Phase 4	1,000,000		1,000,000							1,000,000

			TOTALS	-	4,000,000	-	-	-	-	-	-	4,000,000
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<b>Facility, Civic, Cultural Capital t Projects:</b>												
3509	3509	Public Safety Center	35,000,000			12,386,223					934,589	13,320,812
3513	3513	Property Acquisition		66,721		183,279						250,000
3519	3519A	Canyon Rd Intersection Improvements (MTIP)	5,035,000	106,000	106,000							212,000
3521	3521	Patricia Reser Center for the Arts	46,500,000			21,000,683	100,000				6,000,000	27,100,683
3522	3522	Library Fountain Improvements	2,000,000	-		63,000						63,000
3523	3523	PACWEST Gas Station					140,000					140,000
				172,721	106,000	33,633,185	240,000	-	-	-	6,934,589	40,946,495

<b>BURA</b>												
3520	3520	Downtown Wayfinding Phase 2	500,000							75,000		75,000
6501	5099	Parking Garage Lot 2 at The Round	24,193,000							18,500,000		18,500,000
		Hall Watson Loop Improvements	10,000,000							150,000		150,000
6505	5102	Parking Garage in Old Town	25,000,000									
		Parking Pay Station	450,000									
		TOTALS	-	-	-	-	-	-	-	18,725,000	-	18,725,000

		Totals =>		172,721	4,106,000	33,633,185	240,000	-	-	18,725,000	6,934,589	63,671,495
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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 310 CAPITAL PROJECTS FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 BEGINNING WORKING CAPITAL

301 BEGINNING WORKING CAPITAL

	-798,713		-1,208,233		-1,339,116		-1,339,115	-1,339,116	-693,198		-620,563			
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TOTAL CLASS: 05 BEGINNING WORKING CAPITAL

	-798,713		-1,208,233		-1,339,116		-1,339,115	-1,339,116	-693,198		-620,563			
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CLASS: 15 INTERGOVERNMENTAL REVENUE

327 GRANTS - FEDERAL

	-336,698													
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329 OTHER INTERGOVERNMENTAL REV

	-146,746		-514,255		-150,000		-175,000	-175,000	-100,000		-230,000			
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378 TOTAL CLASS: 15 INTERGOVERNMENTAL REVENUE

	-483,444		-514,255		-150,000		-175,000	-175,000	-100,000		-230,000			
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CLASS: 35 MISCELLANEOUS REVENUES

384 INVESTMENT INTEREST EARNINGS

	-6,677		-9,660		-12,000		-9,030	-12,000	-13,900		-12,500			
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389 MISCELLANEOUS REVENUES

	-37,669													
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TOTAL CLASS: 35 MISCELLANEOUS REVENUES

	-44,346		-9,660		-12,000		-9,030	-12,000	-13,900		-12,500			
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CLASS: 40 INTERFUND TRANSFERS/LOANS

411 TRSFERS FROM GENERAL FUND

	-552,582		-395,366		-623,621		-261,600	-687,488	-193,500		-536,000			
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412 TRSFERS FROM STREET FUND

	-121,478		-111,183		-1,440,112		-330,221	-1,595,265	-1,062,500		-575,000			
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443 TSFR FR TRANSP DEV TAX FUND

			-1,799,908		-1,824,488		-88,556	-751,000	-1,855,000		-1,905,000			
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449 TSFR FR TRANS DEVL TAX/TIF FD

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 310 CAPITAL PROJECTS FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	-282,552		-21,755		-104,000		-11,549	-55,225	-664,000		-664,000			
TOTAL CLASS: 40 INTERFUND TRANSFERS/LOANS														
	-956,612		-2,328,212		-3,992,221		-691,926	-3,088,978	-3,775,000		-3,680,000			
TOTAL DEPARTMENT: 03 REVENUE														
	-2,283,115		-4,060,360		-5,493,337		-2,215,071	-4,615,094	-4,582,098		-4,543,063			

**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 310 CAPITAL PROJECTS FUND

DEPT: 75 INFRASTRUCTURE PROJECTS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 15 CAPITAL OUTLAY

651	PROPERTY ACQUISTION(LAND/BLDG)													
	377,259													
652	RIGHT-OF-WAY AND EASEMENT COST													
	49,537		101,662		343,000		81,185	578,355	176,000		226,000			
682	CONSTRUCTION													
	160,216		1,946,819		4,124,139		1,612,400	2,582,316	3,048,000		3,108,000			
683	CONST DESIGN & ENGR INSPECTION													
	487,871		672,762		433,000		698,131	761,225	751,000		676,000			
TOTAL CLASS: 15 CAPITAL OUTLAY														
	1,074,883		2,721,243		4,900,139		2,391,716	3,921,896	3,975,000		4,010,000			

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CLASS: 25 TRANSFERS

810	TRSFERS TO STREET FUND													
								72,635						
TOTAL CLASS: 25 TRANSFERS														
								72,635						

CLASS: 30 FUND BAL/CONTINGENCY/RESERVES

983	RESERVE - UTIL UNDERGROUNDING													
					497,847				507,547		507,547			
991	CONTINGENCY - UNRESERVED													
					95,351				99,551		25,516			
TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES														
					593,198				607,098		533,063			

TOTAL DEPARTMENT: 75 INFRASTRUCTURE PROJECTS

	1,074,883		2,721,243		5,493,337		2,391,716	3,994,531	4,582,098		4,543,063			
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**CAPITAL PROJECTS - WATER OPERATING FUND PROJECTS**

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 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**

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 86,000 of the total 98,050 residents within Beaverton city-limits. A total of 16,000 Beaverton residents were added to the City's service area after being withdrawn from Tualatin Valley Water District (TVWD) on July 1, 2018. The pending withdrawal on July 1, 2019 will add an additional 230 water meters to the City's service area. An additional, 8,000 new residents are expected in the South Cooper Mountain (SCM) area will be served by the City of Beaverton. An additional 9000 additional residents are predicted to be served by the City of Beaverton in next 10 years in the 1200-acre Urban Reserve 6B upon annexation to the City.

**Progress on FY 2018-19 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 2018-19:

<u>CIP No.</u>	<u>CIP Project Name</u>
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
4017A	Water System Master Plan (adopted November 2018)
4078C	Sexton Mt. Pump Station Upgrade and Emergency Generator, Phase 3, design
4107	Annual Water Line Maintenance and Replacement Projects
4111	Hyland Way
4118A	Settler Way Waterline Replacement (1,400 LF of 6"&8") Phase 1 (includes Greenway Ridge)
4118B	Settler Way Waterline Replacement (2,000 LF of 6"&8") Phase 2
4120	Taralynn Ave (Allen Blvd - EOP) Waterline Replacement
4123	Barlow Ct (1500LF of 6")
4128	TVWD Cooperative Water Projects, service area analysis
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)
6095	Sellwood Subdivision (1,150 LF 6" DIP)

**Water Master Plan Update (CIP 4017A)**

The City's updated Water Master Plan (WMP) was completed and adopted in November 2018. The WMP's estimates of the total water demand accounts for the rapid growth from development in SCM area, participation in the Willamette Water Supply Program (WWSP), and withdrawal of some existing TVWD service areas. The WMP lists major capital improvements needed to support this predicted future demand and includes expansion, over approximately the next 40 years, of the following water system components: water supply sources, transmission lines, water reservoir storage, City water mains, non-potable system,

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

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

pumping stations, pressure relief valves (PRVs), and groundwater wells. The summary of the estimated costs for these projects are as follows:

- Projects needed by Year 2023 are approximately \$89 million
- Projects needed during Years 2024-2028 are an additional \$55 million, and
- Projects needed during Years 2029-2058 are an additional \$101 million.

The overall grand total of the projects listed in the 2018 WMP is approximately \$224.6 million over 40 years. Updated System Development Charges (SDC) and a 50 year seismic mitigation plan will follow.

**Aquifer Storage and Recover (ASR)**

During the winter and spring, when streamflow in the Tualatin River is plentiful, the City injects treated drinking water originating from the Joint Water Commission (JWC) water treatment plant into deep natural underground basalt formations (aquifers), mixing with and displacing native groundwater. During the summer months, when natural streamflow in the Tualatin River is low, treated water is recovered (pumped out) from ASR wells to supplement JWC surface water and help meet Beaverton’s overall peak season demands which have reached as high as 17 million gallons per day (mgd). Drinking water from ASR wells represents up to 30 percent of daily water consumed in the summer period, and 4.4 percent by volume of all water consumed in 2018 by Beaverton water customers.

Since 1999, the City has used ASR as an alternative means to increase summer time drinking water supply and currently provides up to 5 mgd through two operational wells: ASR Well No 2 (2 mgd) and ASR Well No. 4 (3 mgd), with an overall underground storage capacity volume of about 947 MG, which can be pumped out under the City’s ASR limited licenses and groundwater registrations issued by the Oregon Water Resources Department. ASR Well No. 3a will be drilled in FY 19-20 for use as a non-potable pumping well as supply for the City’s purple pipe system. During FY 19-20, final design engineering and land use approval for a new ASR Well No. 5 (2 mgd), ASR Well No. 7 (1 mgd), and ASR Well No. 7a (1.3 mgd) will also occur in FY 19-20. This will expand the capacity by 4.3 mgd and increase the reliability and capacity of supply both for the City of Beaverton and indirectly for our JWC partners.

In 2018, the average daily drinking water demand was 7.5 mgd, with the highest demand day of 13.2 mgd occurring in July for the City’s water service area. Due to higher than normal levels of Iron and Manganese in source water from the JWC, injection/storage of potable water into the ASRs did not occur in FY 18-19. In calendar year 2018, a total of 121.5 million gallons (MG) of stored water and native groundwater were recovered (pumped from ASR wells into the water system) from the ASR wells to help meet summer customer drinking water consumption.

**Joint Water Commission Supply**

The Joint Water Commission (JWC) water treatment plant has a nominal capacity of 75 million gallons per day (mgd) of treated drinking water. The City currently owns a 25 percent share of JWC’s water plant capacity, equivalent to 18.75 mgd of water to supply drinking water to city water customers. Our respective share of capacity in the transmission lines is as follows:

- 14 mgd-capacity in the 13-mile long South Transmission Line
- 2.1 mgd capacity in the 14-mile long Northside Transmission Line
- Proposed JWC lease of an additional 2.1 mgd capacity in the Northside Transmission Line

In FY 19-20, a combined total transmission capacity of 18.2 mgd will serve businesses and 86,000 residents in the City’s service area.

The City’s budget included \$1.7 million in FY 2018-19, Beaverton’s proportional share of the total cost based on ownership share, for various JWC projects. The projects replace and upgrade selected parts of the Water Treatment Plant, added backup power generation, and other projects related to operation and maintenance of overall JWC assets.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 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 2019-20 Action Plan:**

Significant water system improvement and replacement projects budgeted for FY 2019-20:

<u>CIP No.</u>	<u>CIP Project Name</u>
3611	JWC Upgrade Projects
4060	Water System Security Upgrades
4078C	Sexton Mt. Pump Station Upgrade and Emergency Generator
4107	Annual Water Line Maintenance and Replacement Projects
4111	Hyland Way
4120	Taralynn Ave. Allen Blvd. to end
4134	Pressure Reducing Valves – Davies/Brockman; Weir/158 <sup>th</sup> Ave. upgrades
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
4169B	Nimbus North - Hall to Denney Commerce Center (System Upgrade) – Phase 2
4169C	Nimbus North - Hall to Denney Commerce Center (System Upgrade) – Phase 3
6095	Sellwood Subdivision (11th Street - Lee to Alger)

**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) annually. Beaverton has two current contracts with Reclamation dating as far back as 1971. Completion of the Scoggins Dam construction occurred in 1975. During the summer, when drinking water demand is high and Tualatin River streamflow is low, Beaverton requests release of water from Hagg Lake (Scoggins Reservoir) and Barney Reservoir (formed behind a dam on the Trask River in the Coast Range) to compensate for the amount of water removed for Beaverton’s summer use. Scoggins Dam is situated on Scoggins Creek creating Hagg Lake. Scoggins Dam/Hagg Lake is currently Beaverton’s and Washington County’s primary source of water in the summer and a central component to the region’s water supply. Hagg Lake supports nearly 250,000 jobs, provides drinking water for more than 400,000 residents, irrigates 17,000 acres of cropland, provides important flood control and recreation opportunities, and sustains water quality in the Tualatin River to protect fish and wildlife habitat.

In 2001, Reclamation in partnership with the City of Beaverton joined Clean Water Services, the Tualatin Valley Water District, and City of Hillsboro as water supply partners to form the Tualatin Basin Water Supply Project Partnership (TBWSP). The purpose of the project was to increase the storage capacity behind Scoggins Dam to about 100,000 acre-feet to meet long-term water supply needs. The TBWSP consisted of raising the height of Scoggins Dam (which creates Hagg Lake); construction of a large pipeline from the dam to the JWC water treatment plant; and a large pumping station to pump water from the Tualatin River into Hagg Lake during the winter.

A potentially catastrophic problem was identified with Scoggins Dam in 2007 by Reclamation staff, 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, owned and operated by Reclamation. Evaluation of risks associated with seismic-induced overtopping and spillway wall failure causing potential catastrophic dam failure provided justification to initiate expedited action to reduce risks based on Reclamation guidelines. Risks associated with earthquake-induced internal erosion were found to be within the range of justification to take action to reduce risk. Based on the findings of these risk analyses, a decision was made in 2010 to move into a Corrective Action Study (CAS).

Scoggins Dam has been classified as one of the most seismically at-risk dams that Reclamation manages. This classification means that failure of the dam due to a large earthquake could result in significant property damage and loss of life to communities if it is not upgraded. Through local leadership from Clean Water Services and the JWC partners - Beaverton, Hillsboro, Forest Grove and the TVWD - continue to support the work to secure Scoggins Dam at the State and Federal level to reduce the risk of failure in a major earthquake in order to protect public safety, secure our region’s water supply, and help meet future needs.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

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

During FY 19-20, the Principal Engineer in the Public Works Department will continue to work in collaboratively with Clean Water Services and with Reclamation staff from the Boise and Denver federal offices on the Reclamation designated Project Management Team (PMT). The Principal Engineer is a member of the PMT, representing the JWC member agencies who have repayment contracts with Reclamation.

On March 23, 2017, a neighborhood project meeting was held near the current dam site. The concept recommended by CWS is a new downstream roller-compacted concrete dam as a replacement of the existing Scoggins Dam. The downstream dam alternative would inundate the area currently occupied by Stimson Mill and a number of nearby homes and properties. Reclamation and CWS are coordinating with Stimson Lumber. Reclamation and CWS are working closely on this new concept with the other Tualatin Repayment Contractors—Tualatin Valley Irrigation District, and the Cities of Hillsboro, Beaverton and Forest Grove.

The image below is one of the several alternatives currently under consideration including other options which would strengthen and raise the existing dam in its current location. During FY 19-20, the feasibility-level design for the downstream roller-compacted concrete replacement dam will be completed and, if selected, this alternative could be under construction within three years.



**City of Beaverton  
CIP Financial Plan - Water  
FY 2018-19 Estimated**

Fund #	Proj #	CIP #	Project Name	SDC	Surcharge	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Developer Reimb	Funding Total
<b>Water Capital Improvement Projects:</b>										
501	3611	3611	<b>JWC Projects</b>					<b>1,701,125</b>		<b>1,701,125</b>
501	3611	?	<b>Barney Reservoir</b>					<b>56,435</b>		<b>56,435</b>
501	3700	4017	Water System Hydraulic Modeling & Mapping					-		-
501	3700	4031Q	Annual Waterline Maintenance & Replacement Projects (3700)					-		-
501	3700	4166	ASR storage & recovery operations related to Potential Fe/Mn impacts					-		-
			<b>Totals - 3700</b>	-	-	-	-	-		-
501	3701	3410	Shared Use Path along Denney Rd (King Blvd-Fanno Creek Trailhead)					12,000		12,000
501	3701	3519A	Canyon Rd Intersection Improvements (MSTIP)					17,000		17,000
501	3701	4060	Water System Security Upgrades (Shake Alert)					8,000		8,000
501	3701	4111	Hyland Way					815,000		815,000
501	3701	4152	Chestnut Pl (6" water line)					90,000		90,000
501	3701	4135	Griffith Dr Water Line Rep (3100 LF, 8")					100,000		100,000
501	3701	4144	Spirea and Cherry Hill Dr (400LF 6" and 1400 8")					30,000		30,000
501	3701	4123	Barlow Ct (1500LF of 6")					30,000		30,000
501	3701	4120	Taralynn Avenue - Allen Blvd. to end (1,000 LF of 6")					10,000		10,000
501	3701	4134	Davies/Brockman; Weir Rd/158th Ave PRV Upgrades					30,000		30,000
501	3701	4133	Backup Emergency Generator (Sexton Mt)					-		-
501	3701	6095	Sellwood Subdivision (1,150 LF 6" DIP) -					60,000		60,000
501	3701	3106A	Menlo Dr (Allen Blvd to Fairmount Dr) Sidewalk Water Meter Service Relocation					63,000		63,000
501	3701	4017A	Water System Master Plan					111,000		111,000
501	3701	4078C	Sexton Mt. Pump Station Upgrade and Emergency Generator, Phase 3, design					15,000		15,000
501	3701	4118B	Settler Way Waterline Replacement (2,000 LF of 6"&8") Phase 2					420,000		420,000
501	3701	3407	Beaverton Creek Shared-Use Path (Cedar Hills Blvd-Lombard Ave)					6,000		6,000
501	3701	4169A	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - 12", 8" and 6" - Total 6000 LF - NEW - Phase 1 of 3					50,000		50,000
501	3701	4170	Nimbus South - Hall to Scholls (System Upgrade) - NEW -					-		-
501	3701	3321	Westgate Dr/Cedar Hills Blvd.Dawson Wy Intersection Realignment					-		-
501	3701	4134A	2017 Water System PRVs Project - SW 153rd Ave&Beaverton CreekTC/Division&Village Place					5,000		5,000
		4118A								
			<b>Totals - 3701</b>	-	-	-	-	<b>1,872,000</b>		<b>1,872,000</b>
505	3620	3328	Western Ave (5th st - Allen Blvd) Improvement	50,000						50,000
505	3620	4046	Lloyd Water Line (TVH to Henry) - Upsize to 8", 500 LF - NEW	20,000						20,000
505	3620	4168	Electric Water Line (Tualaway to 139th) - New 8" - NEW	10,000						10,000
505	3620	4150	Denney Road Commerce Center (Opportunity Project) Replacement of 2,000 LF with 12" Waterline Upsizing. Joint project with redevelopment - complete	630,000						630,000
505	3620	4161	Denney Road Crossing at HW 217th - Replacement of 400 LF with 12" Waterline Upsizing. NEW	-						-
505	3620	4154	Urban Reserve Infrastructure Analysis (6B area)	30,000						30,000
505	3620	4006	Water System Telemetry (annual upgrade project)	100,000						100,000

**City of Beaverton  
CIP Financial Plan - Water  
FY 2018-19 Estimated**

Fund #	Proj #	CIP #	Project Name	SDC	Surcharge	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Developer Reimb	Funding Total
505	3620	4018	Wellhead Protection	5,000						5,000
505	3620	4133	Backup Well Emergency Generator	5,000						5,000
505	3620	4021F	ASR Well No. 6, (Fence 2 lots, well maintenance/testing)	-						-
505	3620	4021H	ASR Well No. 7, Bierly, Lolich (well maintenance/testing)	-						-
505	3620	4024Q	Water Extra-Capacity Projects	-						-
505	3620	4118A	Settler Way Waterline Replacement (1,400 LF of 6"&8") Phase 1 (includes Greenway Ridge)	10,000						10,000
505	3620	4118B	Settler Way Waterline Replacement (2,000 LF of 6"&8") Phase 2	500,000						500,000
505	3620	3408	Hocken Ave (RR-TV highway)	15,000						15,000
			<b>Totals - 3620</b>	<b>1,375,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,375,000</b>
505	3621	4021D	ASR Well No. 5 (includes combined facility w/Sorrento PS seismic upgrades)				357,000			357,000
505	3622	4058A	Cooper Mountain (5.5 MG) Reservoir No. 2 (Bond)			3,640,000				3,640,000
505	3622	4058B	Cooper Mountain Reservoir No. 3 (Bond?)			79,000				79,000
505	3622	5092C	SW 175th/Weir Road Water Transmission Line Project (Bond)			17,000				17,000
505	3622	5092B	175th/Kemmer Intersection (upgrade existing and new 24" waterline) (Bond)			1,050,000				1,050,000
505	3622	4151	Kemmer Rd (176th Ave - 182nd Ave) 24-Inch Waterline Extension (Bond)			54,000				54,000
			<b>Totals - 3622 (North Cooper Mtn. Reservoir #2 and Transmission Lines) (Bond)</b>	<b>-</b>	<b>-</b>	<b>4,840,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,840,000</b>
505	3623	4021G	South Cooper Mt. - Non-potable (purple pipe) Water System	950,000						950,000
505	3625	4140	SCM 24" Waterline Extension - High School to west (1,100 LF) (may be paid by SDC credits)	-						-
505	3627	5090	Jenkins Waterline Extension - 153rd Ave to Merlo (opportunity project) (Bond)			165,000				165,000
505	3627	4128C	158th at Merlo Connection to Jenkins (Bond)			17,500				17,500
505	3627	4128A	Cedar Hills Blvd/Jenkins Rd/Walker Rd Water System Improvements (Bond)			1,400				1,400
		4128D								
505	3627	4149	Baseline (158th - 163rd) - 1600 LF of 16" (Bond)			26,500				26,500
505	3627	5105	Waterhouse South Area 4 Withdrawal Area (Bond) (Walker Ph 3)			100,000				100,000
505	3627	5188B	Waterhouse South Area 4 Withdrawal Area (Bond) (Walker Ph 2)			100,000				100,000
505	3627	4159	TVWD Program Manager			820,000				820,000
505	3627	4171	Master meter - Schendel/Walker			60,000				60,000
505	3627	4128E	Urban Renewal Area 2 Withdrawal Area (Bond)			-				-
505	3627	4128F	Southwest Beaverton Area 3 Withdrawal Area (Bond)			-				-
505	3627	4128G	SW 170th/Arbor Creek TVWD Withdrawal Area 5 (Bond)			-				-
505	3627	4128H	Denney-Whitford, TVWD Withdrawal Area 6 (Bond)			-				-
			<b>Totals - 3627 (Withdrawal of Areas from TVWD) (Bond)</b>	<b>-</b>	<b>-</b>	<b>1,290,400</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,290,400</b>
505	3631	4107	Meridian Pump Station Replacement (Bond)			850,000				850,000
505	3636	4051	Scoggins Dam Raise (TBWSP)	4,000						4,000
505	3643	4155	Willamette Intake Facility (WIF)	10,000						10,000

**City of Beaverton  
CIP Financial Plan - Water  
FY 2018-19 Estimated**

Fund #	Proj #	CIP #	Project Name	SDC	Surcharge	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Developer Reimb	Funding Total
505	3643	4155	Willamette Intake Facility (WIF) - Capital	145,000						145,000
			<b>Totals - 3643 Willamette Water Supply WIF (Bond)</b>	<b>155,000</b>	-	-	-	-	-	<b>155,000</b>
505	3645	4126	WWSP - Tile flat turn out - does not include Main WWSP capital obligation			-				-
			<b>Totals - 3645 Willamette Water Supply WIF (Bond)</b>	-	-	-	-	-	-	-
505	3645	4141	WWSP Supply Intertie (opportunity project) @ Cornelius Pass Road/TV Hwy. (Bond)			1,120,000				1,120,000
505	3645	4143	NTL Intertie (Possible Grant Funding) - Phase 1 - CornPass to Walker and 185th			300,000				300,000
			<b>Totals - 3645 Willamette Water Supply Interties (Bond)</b>	-	-	<b>1,420,000</b>	-	-	-	<b>1,420,000</b>
505	3644	4122	Alvord Lane Waterline, 2,600 LF of 16" (Bond)			1,460,000			158,000	1,618,000
505	3644	5092A	SW 175th - Scholls to Alvord (extend 24" waterline 1,200 LF & connections to other waterlines) (Opportunity)			125,000				125,000
505	3644	4128	South Cooper Mountain LID			-				-
			<b>Totals - 3644 (South Cooper Mtn. Extra Capacity Projects) (Bond)</b>	-	-	<b>1,585,000</b>	-	-	<b>158,000</b>	<b>1,743,000</b>
			<b>Totals =&gt;</b>	<b>2,484,000</b>	-	<b>9,985,400</b>	<b>357,000</b>	<b>3,629,560</b>	<b>158,000</b>	<b>16,613,960</b>

**City of Beaverton  
CIP Financial Plan - Water  
FY 2019-20 Recommended**

Fund #	Proj #	CIP #	Project Name	Funding Source					
				Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Funding Total
<b>Water Capital Improvement Projects:</b>									
501	3611	3611	JWC Projects					1,460,000	1,460,000
501	3611	?	Barney Reservoir					50,000	50,000
<b>Totals - 3611 Joint Water Commission Projects</b>				-	-	-	-	<b>1,510,000</b>	<b>1,510,000</b>
501	3700	4017	Water System Hydraulic Modeling & Mapping					-	-
501	3700	4166	ASR storage & recovery operations related to Potential Fe/Mn impacts					-	-
<b>Totals - 3700 Maintenance &amp; Replacement Program</b>				-	-	-	-	-	-
501	3701	3410	Shared Use Path along Denney Rd (King Blvd-Fanno Creek Trailhead)					-	-
501	3701	3321	Westgate Dr/Cedar Hills Blvd.Dawson Wy Intersection Realignment - JIM					50,000	50,000
501	3701	3519A	Canyon Rd Intersection Improvements (MSTIP)					10,000	10,000
501	3701	4060	Water System Security Upgrades					50,000	50,000
501	3701	4111	Hyland Way					22,500	22,500
501	3701	4120	Taralynn Avenue - Allen Blvd. to end (1,000 LF of 6")					210,000	210,000
501	3701	4134	Davies/Brockman; Weir Rd/158th Ave PRV Upgrades					265,000	265,000
501	3701	4144	Spirea and CherryHill Dr (400LF 6" and 1400 8") - 1*					-	-
501	3701	4152	Chestnut Pl (6" water line) - 1*					-	-
501	3701	4170	Nimbus South - Hall to Scholls (System Upgrade) - NEW ?					-	-
501	3701	6095	Sellwood Subdivision 11th Street - Lee to Alger - (1,150 LF 6" DIP) ?					280,000	280,000
501	3701	4078C	Sexton Mt. Pump Station Upgrade and Emergency Generator, Phase 3, design					130,000	130,000
501	3701	4135 (1*)	Griffith Drive Waterline Replacement, 3,100 LF of 8" (1*)					-	-

**City of Beaverton  
CIP Financial Plan - Water  
FY 2019-20 Recommended**

Fund #	Proj #	CIP #	Project Name	Funding Source					
				Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Funding Total
501	3701	4158	AMI/Fixed Based Automated Meter Reading Infrastructure - (antenna(s) tower & communication network, meters for SCM)					50,000	50,000
501	3701	4169A (3*)	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 1 of 3 - 1*					640,000	640,000
501	3701	4169B (3*)	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 2 of 3 1*					30,000	30,000
501	3701	4169C (3*)	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 3 of 3 ---- 1*					-	-
<b>Totals - 3701 Water System Improvements</b>				-	-	-	-	<b>1,737,500</b>	<b>1,737,500</b>

505	3620	3328	Western Ave (5th st - Allen Blvd) Improvement		20,000				20,000
505	3620	3408	Hocken Ave (RR-TV highway)		18,000				18,000
505	3620	4006	Water System Telemetry (annual upgrade project)		110,000				110,000
505	3620	4018	Wellhead Protection		5,000				5,000
505	3620	4021H	ASR Well No. 7 (Cooper Mt. ASR, well maintenance/testing)		10,000				10,000
505	3620	4021F	ASR Well No. 6 (well maintenance/testing)		10,000				10,000
505	<b>3620</b>	4046	Lloyd Water Line (TVH to Henry) - Upsize to 8", 500 LF - NE		10,000				10,000
505	3620	4078B	Sexton Mt. Pump Station Upgrade and Emergency Generator, Phases 3, 4, 5 (also in 3701)		-				-
505	3620	4154	Urban Reserve Infrastructure Analysis (6B)		100,000				100,000

**City of Beaverton  
CIP Financial Plan - Water  
FY 2019-20 Recommended**

Fund #	Proj #	CIP #	Project Name	Funding Source					
				Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Funding Total
505	3620	4161	Denney Road Crossing at HW 217th - Replacement of 400 LF with 12" Waterline Upsizing. NEW.		10,000				10,000
505	3620	4168	Electric Water Line (Tualaway to 139th) - New 8" - NEW ?		110,000				110,000
<b>Totals - 3620 Extra Capacity Projects</b>				-	<b>403,000</b>	-	-	-	<b>403,000</b>
505	3621	4021D	ASR Well No. 5 (includes combined facility w/Sorrento PS seismic upgrades)				1,272,000		1,272,000
<b>Totals - 3621 ASR Well No. 5</b>				-	-	-	<b>1,272,000</b>	-	<b>1,272,000</b>
505	3622	4058A	Cooper Mountain (5.5 MG) Reservoir No. 2 (Bond)			4,500,000			4,500,000
505	3622	4058B	Cooper Mountain (5.5 MG) Reservoir No. 3 (Siting and Land Purchase)(Bond)			1,020,000			1,020,000
505	3622	4151A	175th Transmission Main, 24" (Winkleman Park to Alvord Lane, 4800lf)(Bond)			3,750,000			3,750,000
505	3622	4151B	Weir Road 16" Transmission Line - SW 173rd to SW 165th Avenue/city limits (2,000 LF)(Bond)			1,250,000			1,250,000
<b>Totals - 3622 Cooper Mountain Reservoir #2 &amp; Water Lines (Bond)</b>				-	-	<b>10,520,000</b>	-	-	<b>10,520,000</b>
505	3623	4021G	South Cooper Mt. - Non-potable (purple pipe) Water System		2,585,000				2,585,000
<b>Totals - 3623 Non-Potable Purple Pipe Projects</b>				-	<b>2,585,000</b>	-	-	-	<b>2,585,000</b>
505	3625	6083	South Cooper Mt. Infrastructure (Potable)		10,000				10,000
<b>Totals - 3625 (South Cooper Mtn. Water SDC Projects)</b>				-	<b>10,000</b>	-	-	-	<b>10,000</b>
505	3627	4128i	Area 3 - COB Transmission Line Intertie - 106th Ave - Division to Davis Road w/ PRV (5,400 LF of 16") (Bond)						-

**City of Beaverton  
CIP Financial Plan - Water  
FY 2019-20 Recommended**

Fund #	Proj #	CIP #	Project Name	Funding Source					
				Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Funding Total
505	3627	4149	West Baseline (158th - 163rd) - 1600 LF of 16" (Bond)			-			-
505	3627	4159	TVWD Program Manager			880,000			880,000
505	3627	4171	Master Meter (Schendel/Walker)			150,000			150,000
505	3627	5090	Jenkins Waterline Extension - 153rd Ave to Merlo (opportunity project) (Bond)			450,000			450,000
505	3627	5105	Waterhouse South Area 4 Withdrawal Area (Bond) (Walker Ph 3) - 4800 LF of 24" + PRV			750,000			750,000
505	3627	?	Five Oaks School, 173rd to NW 167th, 12" water line, 1500 LF			490,000			490,000
505	3627	5088B	Waterhouse/Elmonica Area, Withdrawal Area 4 (Bond) (Walker Ph 2)			20,000			20,000
<b>Totals - 3627 (Withdrawal of Areas from TVWD) (Bond)</b>				-	-	<b>2,740,000</b>	-	-	<b>2,740,000</b>
505	3628	4172	TVWD opportunity projects - Metzger East Pipeline - Scholls Ferry Rd, Nimbus Ave to Allen Blvd			100,000			100,000
505	3628	4173	TVWD opportunity projects - WWSP - SW Allen Blvd			75,000			75,000
505	3628	4174	TVWD opportunity projects - WWSP - SW Western Ave			75,000			75,000
<b>Totals - 3628 - TVWD Opportunity Projects</b>					-	<b>250,000</b>	-	-	<b>250,000</b>
505	3631	4107	Meridian Pump Station Replacement (Bond)			3,560,000			3,560,000
<b>Totals - 3631 Meridian Pump Station (Bond)</b>					-	<b>3,560,000</b>	-	-	<b>3,560,000</b>
505	3635	3635	JWC Capacity Projects - WTP upgrade and expansion ?		TRUE				-
<b>Totals - 3635 JWC Capacity Projects</b>					-	-	-	-	-

**City of Beaverton  
CIP Financial Plan - Water  
FY 2019-20 Recommended**

Fund #	Proj #	CIP #	Project Name	Funding Source					
				Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Funding Total
505	3636	4051	Scoggins Dam Replacement - Modification (TBWSP)		3,000				3,000
<b>Totals - 3636 Scoggins Dam Raise</b>					<b>3,000</b>	-	-	-	<b>3,000</b>
505	3646	4126	Willamette Water Supply Program (WWSP) [WIF Buy-in Cost from TVWD]			11,720,000			11,720,000
<b>Totals - 3643 Willamette Water Supply WIF (Bond)</b>					-	<b>11,720,000</b>	-	-	<b>11,720,000</b>
505	3645	4142	Tile Flat (WWSP - COB Intertie) Fluoridation and Pump Station			750,000			750,000
505	3645	4141	WWSP Supply Intertie (opportunity project) @ Cornelius Pass Road/TV Hwy. (Bond)			3,100,000			3,100,000
505	3645	4143	NTL / STL Intertie and Transmission Line - Phase 1 (170th from SW Shaw to Baseline) - 7200 LF of 24"			500,000			500,000
505	3645	4143	NTL / STL Intertie and Transmission Line (Corn Pass/Hwy 26 to Evergreen/Cornell) - Phase 2 (Century Blvd NTL at Gordon Faber Rec Complex to Evergreen Pkwy) - 900 LF of 24"			-			-
505	3645	4143	NTL / STL Intertie and Transmission Line (Corn Pass/Hwy 26 to Evergreen/Cornell) - Phase 3 (173rd - Baseline to Cornell) - 9000 LF of 24"			-			-
505	3645	4143	NTL / STL Intertie and Transmission Line (Corn Pass/Hwy 26 to Evergreen/Cornell) - Phase 4 (Cornell - Evergreen Pkwy - 173rd to Century) - 16,500 LF of 24"			-			-
505	3645	4143	NTL Intertie (possible grant funding)			-			-
<b>Totals - 3645 Willamette Water Supply Interties (Bond)</b>					-	<b>4,350,000</b>	-	-	<b>4,350,000</b>

**City of Beaverton  
CIP Financial Plan - Water  
FY 2019-20 Recommended**

Fund #	Proj #	CIP #	Project Name	Funding Source					
				Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	Operating: Maint & Replacement	Funding Total
505	3643	4155	Willamette Intake Facility (WIF) - Operational/Managing Agency			9,000			9,000
505	3643	4155	Willamette Intake Facility (WIF) - Capital			35,000			35,000
<b>Total - 3645 Willamette Intake Facility (WIF)</b>				-	-	44,000	-	-	44,000
<b>Totals =&gt;</b>				-	3,001,000	33,184,000	1,272,000	3,247,500	40,704,500

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 501 WATER FUND

DEPT: 75 INFRASTRUCTURE PROJECTS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 15 CAPITAL OUTLAY

682 CONSTRUCTION

	707,517		2,113,398		3,151,030		1,706,154	1,276,000	3,542,500		1,537,500			
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683 CONST DESIGN & ENGR INSPECTION

	651,923		571,917		476,384		404,775	646,000	440,000		200,000			
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685 JWC CAPITAL EXPENSE

	871,201		1,047,618		2,345,250		649,843	1,750,000	1,535,000		1,510,000			
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TOTAL CLASS: 15 CAPITAL OUTLAY

	2,230,641		3,732,933		5,972,664		2,760,772	3,672,000	5,517,500		3,247,500			
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TOTAL DEPARTMENT: 75 INFRASTRUCTURE PROJECTS

	2,230,641		3,732,933		5,972,664		2,760,772	3,672,000	5,517,500		3,247,500			
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**CAPITAL PROJECTS - WATER CONSTRUCTION FUND**

**CITY OF BEAVERTON**

**BUDGET TREND ANALYSIS - FY 2016-17 TO FY 2019-20**

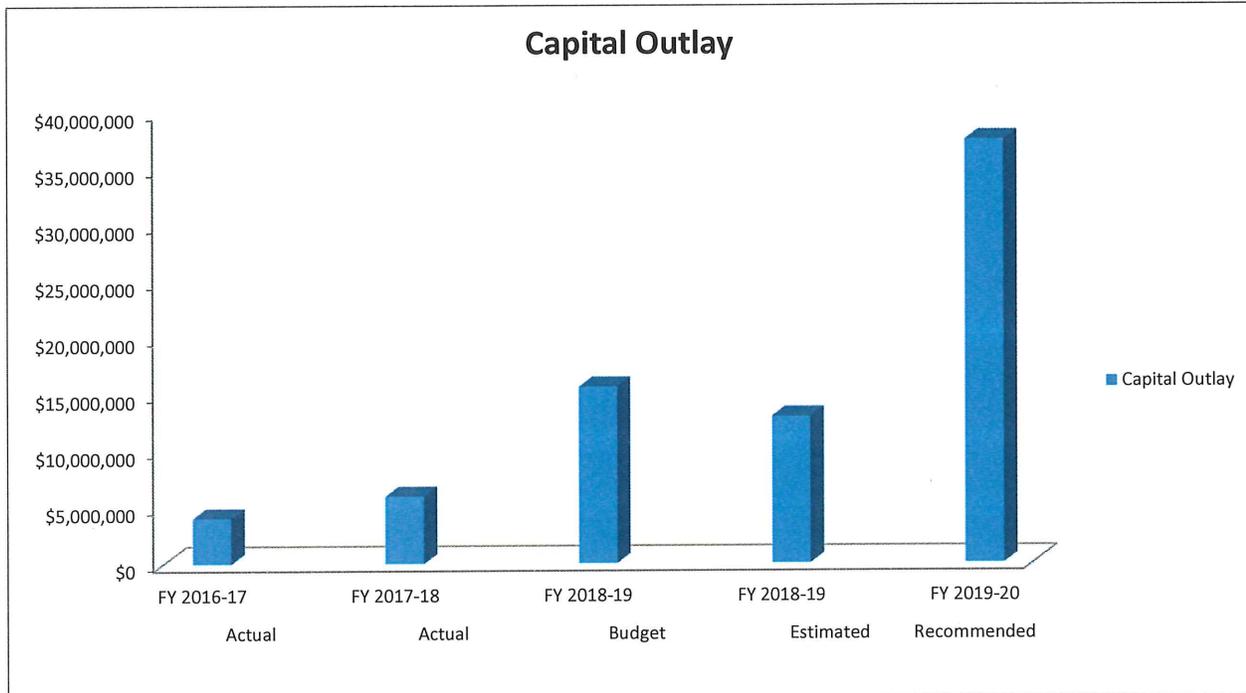
With Explanations on Significant Changes between Budgeted 2018-19 and Recommended 2019-20

Fund:	Water Construction					% Change
CLASS	Actual FY 2016-17	Actual FY 2017-18	Budget FY 2018-19	Estimated FY 2018-19	Recommended FY 2019-20	Budgeted Vs. Recommended
Capital Outlay	\$4,038,523	\$5,966,154	\$15,621,271	\$12,984,400	\$37,467,000	139.85%
SUB-TOTAL	\$4,038,523	\$5,966,154	\$15,621,271	\$12,984,400	\$37,467,000	
Contingency			-		-	
Contingency - Dedicated Reserve			1,378,019		1,668,308	
Reserve			5,676,332		4,399,214	
Reserve			-		-	
<b>TOTAL</b>	<b>\$4,038,523</b>	<b>\$5,966,154</b>	<b>\$22,675,622</b>	<b>\$12,984,400</b>	<b>\$43,534,522</b>	

**Explanation of item(s) that are significant (10% and greater than \$10,000):**

**Capital outlay:**

FY 2019-20 includes: \$11.6 million increase in investments in joint ventures due to the buy in costs for the Willamette Water Supply Project; \$6.4 million increase in construction in the Cooper Mountain Area, and \$1.6 million addition of land aquisition in Cooper Mountain and Tile Flat.



CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 505 WATER CONSTRUCTION	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>DEPARTMENT HEAD:</b> DAVID DONALDSON	

**Program Trends:**

The City's water utility operation is accounted for in the Water Fund. For financial reporting purposes, the Water Fund is a consolidation of the Water Operating Fund, Water Construction Fund and Water Debt Service Fund. For budgetary and financial control purposes, a separate budget is presented for each of these operations. The budget presented in this program is for the Water Construction Fund. This fund accounts for expenditures for improvements to the system with the three sources of revenue: System Development Charges (SDCs), transfers from operating revenue and an occasional revenue bond. Due to an increase in real estate development, SDCs have rebounded somewhat from previous recessionary years. Contributions of operating funds for the replacement portion of capital projects continues to be a challenge as metered consumption has flattened and operating revenue is limited. The sale of revenue bonds funds for major facility construction projects is expected over the next five years.

REQUIREMENTS	FY 2016-17 ACTUAL	FY 2017-18 ACTUAL	FY 2018-19 BUDGETED	FY 2019-20 PROPOSED	FY 2019-20 ADOPTED
POSITION					
CAPITAL OUTLAY	\$4,038,523	\$5,966,154	\$15,621,271	\$37,467,000	\$0
TRANSFERS					
CONTINGENCY	0	0	7,054,351	6,067,522	0
<b>TOTAL</b>	<b>\$4,038,523</b>	<b>\$5,966,154</b>	<b>\$22,675,622</b>	<b>\$43,534,522</b>	<b>\$0</b>

**Funding Sources:**

	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2019-20
Beginning Working Capital	\$1,879,643	\$992,721	\$18,937,622	\$8,915,922	\$0
Intergovernmental Revenue	750,000	0	0	0	0
System Development Fees	176,990	1,517,101	1,200,000	1,000,000	0
Miscellaneous Revenue	100,966	11,043	438,000	346,600	0
Loan Proceeds	347,645	21,152,912	1,100,000	31,272,000	0
Transfers from:					
Water Fund	1,776,000	1,230,000	1,000,000	2,000,000	0

**Funding of Projects:**

3620 Water Extra Capacity Supply System	889,917	622,379	1,471,285	413,000	0
3621 ASR No. 5 Project	1,096,318	37,470	1,100,000	1,272,000	0
3622 Cooper Mtn Rsvr #2 and Water Lines	202,535	895,535	5,674,457	10,520,000	0
3623 Non Potable Purple Pipe Projects	69,128	283,897	1,289,105	2,585,000	0
3625 So. Cooper Mtn Water Capacity Proj	69	0	0	10,000	0
3627 Withdrawal of Areas from TVWD	1,681,277	2,788,481	1,683,000	2,740,000	0
3628 TVWD Opportunity Projects	0	0	0	250,000	0
3631 Meridian Pump Station Repl.	29,048	66,993	1,650,000	3,560,000	0
3636 Scoggins Dam Raise Project	0	0	4,000	3,000	0
3643 Willamette Water Supply System	42,895	314,432	337,983	44,000	0
3644 So. Cooper Mtn. Extra Capacity	27,336	956,967	1,761,441	0	0
3645 Willamette Water System Intertie	0	0	650,000	4,350,000	0
3646 Willamette Water Supply Project - Treatment, Storage & Transmission	0	0	0	11,720,000	0

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 505 WATER CONSTRUCTION	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> INCREASED CAPACITY CAPITAL PROJECTS	<b>DEPARTMENT HEAD:</b> DAVID DONALDSON

**Progress on FY 2018-19 Action Plan:**

Significant water capacity projects budgeted, designed and/or constructed in FY 2018-19 include the following projects. Projects appear in the budget under the various funds and programs. Each project has its own identifier and may have allocations for various object codes such as Construction (#682) or Right of Way/Easement Costs (#652).

During FY 2018-19, the list of projects continued to grow as development opportunities occurred in the Cooper Mountain area and the city began a schedule of transferring water service responsibilities from the Tualatin Valley Water District (TVWD) for properties already within the city limits (allowed by the 40-year IGA the City and TVWD entered into in 2018). Additionally in FY 2018-19, the City signed an IGA with TVWD and City of Hillsboro to become a financial partner in the Willamette Water Supply Project (WWSP) providing the City with 5 mgd of new water supply by 2026. Both of these agreements require extensive construction of new capital assets, requiring additional borrowing and inherent rate increases to meet obligations of those bonds.

**Program: Water Extra Capacity- 3620**

<b><u>CIP Project No.</u></b>	<b><u>CIP Project Name</u></b>
3302	Farmington Road Utility Improvements (148th Ave to Hocken Rd), complete
4133	Backup Generator
4024P	Water Extra-Capacity Projects
4118B	Settler Way Waterline Replacement (2,000 LF of 6"&8") Phase 2

**Program: ASR 5 Project – IFA Loan – 3621**

4021D	ASR Well No. 5 – Award final engineering for well and Sorrento Pump Station
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**Program: Cooper Mountain Reservoir #2 and Transmission Mains (bonded) – 3622**

5092B	175th/Kemmer Intersection (upgrade existing and new 24" waterline)
5092C	SW 175th/Weir Road Water Transmission Line
4058A	Cooper Mt. Reservoir No. 2, preliminary design only

**Program: Non-Potable “Purple Pipe” Mains – 3623**

4021G	ASR No. 3a well drilling in South Cooper Mt. (SCM) - Non-potable purple-pipe water system and award contract for the Non-Potable System Program Manager in South Cooper Mountain
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**Program: S. Cooper Mtn. SDC Projects – 3625**

6083	South Cooper Mt. Infrastructure – Potable
5092A	SW 175th - Scholls to Alvord (extend 24" waterline 1,200 LF & connections to other waterlines)

**Program: Withdrawal of Areas from TVWD – 3627**

5090	Jenkins Bridge Crossing, complete final design, begin construction
4128C	158 <sup>th</sup> @ Merlo Connection to Jenkins Road completed
4128A	Cedar Hills Blvd/Jenkins/Walker Road system improvements completed

**Program: Meridian Pump Station – 3631**

4107	Meridian Pump Station Replacement and Upgrade, preliminary and final design, begin roadway piping
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**Program: Willamette River Water Supply – 3643 (bonded)**

4126	Willamette Water Supply Program – Negotiation and executing IGA to become a financial partner in the Program and joined the Willamette Water Intake Facility Commission (WIF)
4141	WWSP Supply Intertie @ Cornelius Pass Road and TV Highway – Final design and bidding of project

**Program: S. Cooper Mtn. Extra Capacity Projects (bonded) – 3644**

4122	Completion of Alvord Lane Waterline, 2,500 LF of 16"
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CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 505 WATER CONSTRUCTION	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> INCREASED CAPACITY CAPITAL PROJECTS	<b>DEPARTMENT HEAD:</b> DAVID DONALDSON

**FY 2019-20 Action Plan:**

During FY 2019-20, the list of projects shows continued progress on development opportunities occurring in the Cooper Mountain area and TVWD transferring water service responsibilities to the City for approximately 16,000 city residents. Significant other extra-capacity water system improvements consists of:

**Program: Water Extra Capacity- 3620**

<u>CIP Project No.</u>	<u>CIP Project Name</u>
3328	Western Ave (5th ST - Allen Blvd)
3408	Hocken Ave (Railroad-TV highway)
4006	Water System Telemetry (annual upgrade project)
4046	Lloyd Water Line (Tualatin Valley Highway to Henry) - Upsize to 8", 500 LF
4078B	Sexton Mt. Pump Station Upgrade and Emergency Generator
4154	Urban Reserve Infrastructure Analysis (6B)
4161	Denney Road Crossing at HWY 217th - Replacement of 400 LF with 12" Waterline Upsizing
4168	Electric ST Water Line (Tualaway to 139th) - New 8"

**Program: ASR 5 Project – IFA Loan – 3621**

4021D	ASR Well No. 5 & Sorrento Pump Station Seismic Upgrade
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**Program: Cooper Mountain Reservoir #2 and Transmission Mains (bonded) – 3622**

4058A	Cooper Mt. Reservoir No. 2, preliminary design only
4058B	Cooper Mountain (5.5 MG) Reservoir No. 3 (Siting and Land Purchase)
4151A	175th Transmission Main, 24" (Winkleman Park to Alvord Lane, 4800lf
4151B	Weir Road 16" Transmission Line - SW 173rd to SW 165th Avenue/city limits (2,000 LF)

**Program: Non-Potable “Purple Pipe” Mains – 3623**

4021G	ASR No. 3a in South Cooper Mt. (SCM) – Supply source to Non-potable purple-pipe water system
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**Program: S. Cooper Mtn. SDC Projects – 3625**

4158	AMI/Fixed Based Automated Meter Reading Infrastructure
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**Program: Withdrawal of Areas from TVWD – 3627 (bonded)**

4128i	Area 3 - COB Transmission Line Intertie - 106th Ave - Division to Davis Road w/ PRV (5,400 LF of 16")
4149	West Baseline (158th - 163rd) - 1600 LF of 16"
4159	TVWD Water Service Transfer Program Manager
4171	Area 4 – Master Meter (Schendel/Walker)
5088B	Area 4 - Waterhouse/Elmonica (Walker Ph. 2)
5090	Jenkins Road & Bridge Crossing – SW 153 <sup>rd</sup> to SW 158 <sup>th</sup> Avenue
5105	Waterhouse South Area 4 Withdrawal Area (Walker Ph. 3) - 4800 LF of 24" + PRV
??	Five Oaks School, 173rd to NW 167th, 12" water line, 1500 LF

**Program: TVWD Opportunity Projects – 3628**

4172	Metzger East Pipeline - Scholls Ferry Rd, Nimbus Ave to Allen Blvd (design)
4173	WWSP - SW Allen Blvd (design)
4174	WWSP - SW Western Ave (design)

**Program: Meridian Pump Station – 3631**

4107	Meridian Pump Station Replacement and Upgrade, complete final design, begin construction
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**Program: JWC Capacity Projects – 3635**

3635	JWC Capacity Projects – Water Treatment Plant (WTP) upgrade and expansion
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CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 505 WATER CONSTRUCTION	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> INCREASED CAPACITY CAPITAL PROJECTS	<b>DEPARTMENT HEAD:</b> DAVID DONALDSON

**Program: Willamette River Water Supply – 3643 (bonded)**

4126 Willamette Water Supply Program – intake facility upgrade (WIF)  
4141 WWSS Supply Intertie @ Cornelius Pass Road and TV Highway

**Aquifer Storage and Recover (ASR) – ASR No. 5**

During FY 19-20, final design engineering and land use approval will occur. The new ASR No. 5 (providing 2 MGD) will replace ASR No. 1 (out of service). The City’s future total peak pumping capacity from ASR wells will be 7 MGD consisting of ASR Well No. 2 (2 MGD), ASR Well No. 4 (3 MGD) and ASR Well No. 5 (2 MGD). The project is partially financed by a \$5 million loan and loan-forgiveness funds from the State of Oregon Infrastructure Finance Agency (IFA) and the US EPA with additional funding from the Water Construction Fund. ASR Well No. 5 is located at the existing Sorrento Reservoir and Pump Station site owned by the City of Beaverton in central Beaverton. ASR Well No. 5 was drilled to a depth of 945 feet and accesses a productive deposit of groundwater below 500 feet.

An increase in 2 MGD during average peak season water demand from ASR No. 5 will provide for an equivalent supply of potable water to approximately 18,700 residents (or 9,700 population per 1 million gallons per day), using current average-day per capita water use. The ASR capacity also provides for Beaverton residents in case of an emergency when water supply from the JWC is interrupted. Similar ASR benefits are expected in the future for undeveloped ASR Nos. 6 and 7 and 7a. This investment reserves the location and well for future needs when justified by growth in City water customer use by residents and businesses and for City-wide fire protection. This increases the reliability and capacity of supply both for the City of Beaverton and indirectly for the Joint Water Commission (JWC) partners.

The use of ASR by Beaverton is an important bridge during the next decade to conserve stored water in the event of: a drought period, imposed Scoggins reservoir fill restriction(s), water quality problems, seismic events up to the intensity of the Cascadia Subduction Zone earthquake, or other water-limiting events in the future. ASR 5 and other ASR facilities are believed to be more resilient during a large earthquake due to being located on top and penetrating into deep rock formations of more stable Columbia River Basalt. With the significant seismic risks now known concerning Scoggins Dam, the schedule is uncertain to strengthen and raise the existing, or replace the dam at a downstream location by the US Bureau of Reclamation.

**South Cooper Mountain (SCM) Annexation Area and Urban Reserve Area 6B – Potable and Non-Potable Water Infrastructure**

City’s engineering staff will continue to working with developers and other governmental agencies to ensure construction of regional and local potable water facilities within South Cooper Mountain. Construction was completed in FY 18-19 on 2,000 linear feet of 16” and 24” waterline in SW 175<sup>th</sup> Ave as part of the Washington County project to widen the roadway. City and SCM developers also constructed 4,800 linear feet of 24” waterline on SW 175<sup>th</sup> Avenue from Kemmer Road to Alvord Road and 16” waterline on Weir Road from SW 175<sup>th</sup> Avenue to SW 163<sup>rd</sup> Avenue to provide potable water from Kemmer to the South Cooper Mountain development area and existing upper elevation water service areas of the City.

The Metro Council made a decision in late 2018 to modify the current urban growth boundary to include Urban Reserve Area 6B. The South Cooper Mountain (SCM) (540 acres) area of Beaverton, annexed to the City in 2014; and the Metro Urban Reserve Area 6B (1,200 acres), when annexed to the City of Beaverton; is intended by Beaverton for future higher density urban development over the next 20 years. These areas are planned for eventual drinking (potable) water service by the City of Beaverton. A potable water infrastructure study is underway to prepare a concept plan to provide water, once annexed to the City, for the Urban Reserve Area 6B

The Beaverton Water Master Plan (completed November 2018) includes the South Cooper Mountain development area and recommends 5.5 million-gallon Cooper Mt. Reservoir No. 2. and associated Pumping Station, as well as development of ASR well Nos. 7 and 7a, now in preliminary design (CIP 4058A). The project also includes 24” waterline on SW 175<sup>th</sup> Avenue (Kemmer to Alvord) and 16” on Weir Road (175<sup>h</sup> Ave. to SW 163<sup>rd</sup> Avenue.

The Non-Potable (Purple Pipe) Water System for South Cooper Mountain and Area 6B is to partially mitigate the increase in potable water demand related to non-potable water uses (e.g., landscaping irrigation, decorative fountains and ponds, outdoor use, toilet flushing). Benefits of a non-potable water supply include demonstrating progress with the city’s sustainability efforts

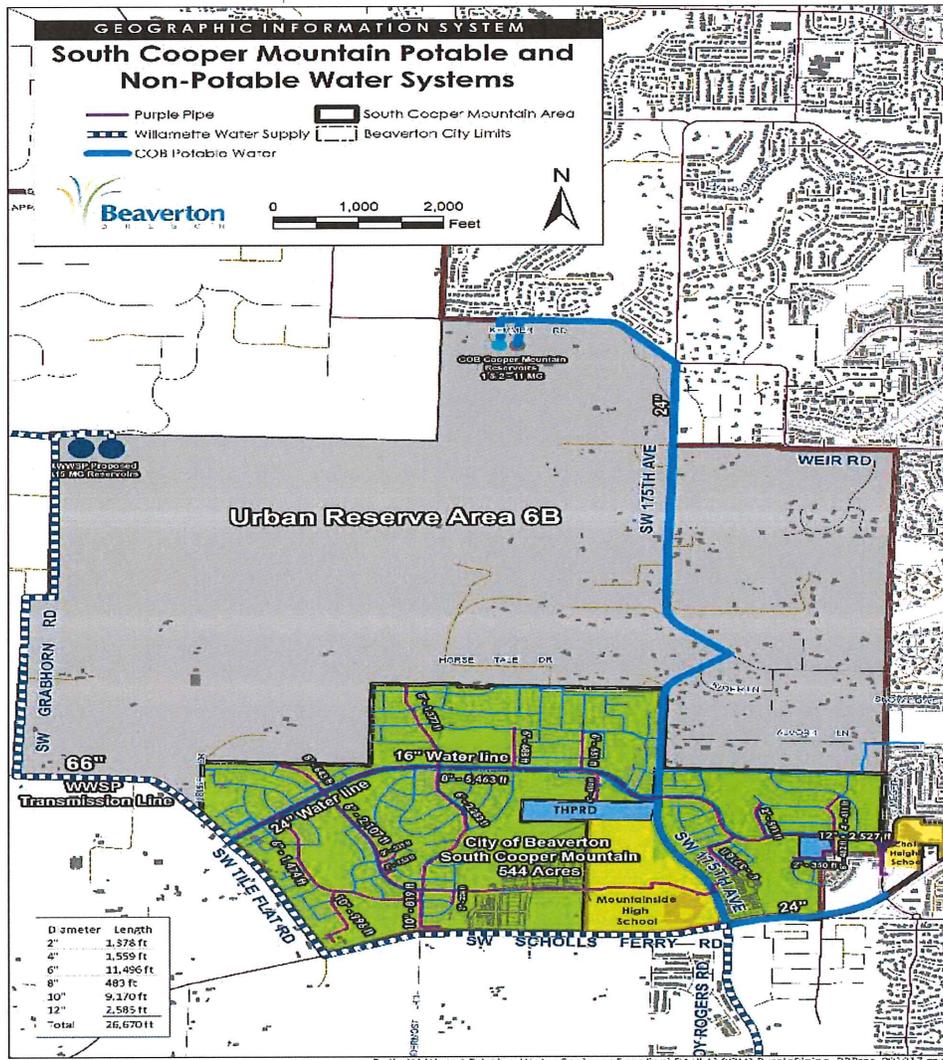
CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 505 WATER CONSTRUCTION	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> INCREASED CAPACITY CAPITAL PROJECTS	<b>DEPARTMENT HEAD:</b> DAVID DONALDSON

- as it offsets potable water used for drinking, fire protection and increasing summer peak demands. It also would reduce and potentially postpone costly increases in our treated-water capacity. Summer potable water demand is about 60% higher than winter demand due mainly to irrigation and outdoor use.

A sophisticated potable-to-non-potable interconnect system was completed in summer 2018, which supplies water from the City's potable system to the purple pipe distribution system and using telemetry remotely monitors the downstream pressure and measures the non-potable water demand so that flow capacity is maintained for continuous summer irrigation as the purple pipe system is progressively extended with development. The interconnection system is monitored and operated by Water Operations staff using the City's water system SCADA/telemetry system. The purple pipe system is partially operational at this time with potable water until non-potable water is available. To date, about 2 miles of purple pipe distribution system has been installed in developing areas of SCM.

With the approval of Metro's Urban Reserve Area 6B to be added to the growth boundary, and with mandatory annexation to the City for high density development, the non-potable system/purple pipe system is expected to eventually cover the 1,200-acre area in the upper elevations of the south side of Cooper Mountain. Metro estimates UR Area 6B could yield 3,760 new homes and about 9,000 population once fully developed.



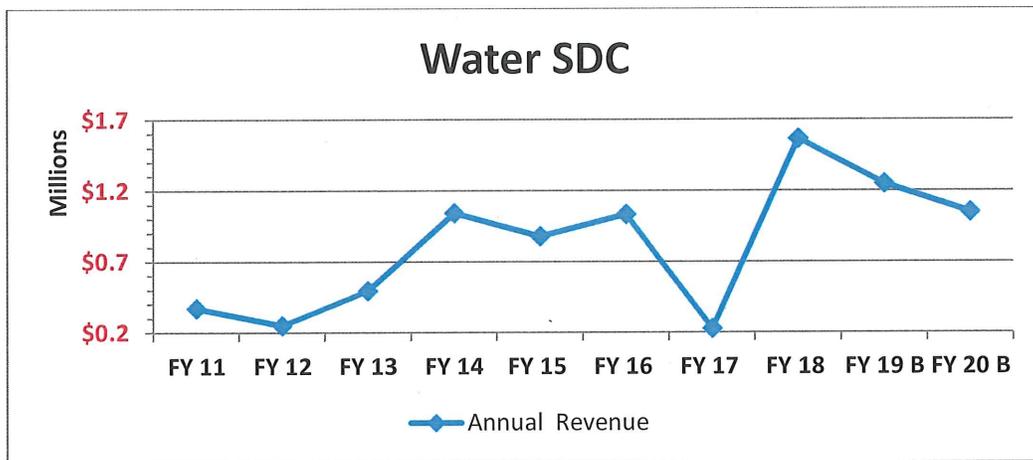
CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 505 WATER CONSTRUCTION	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> INCREASED CAPACITY CAPITAL PROJECTS	<b>DEPARTMENT HEAD:</b> DAVID DONALDSON

**System Development Charges**

The 2018 Water Master Plan was adopted by Council in November 2018. The City’s water system development charges will be adjusted to help fund some of the improvements listed in the master plan. The current SDC for a typical water meter serving a single-family home is \$6,255.

This graph illustrates the trend line of this important revenue source for water system capital investments. In cases where a developer is required by the City to oversize water mains, SDC credits are provided, for qualified public improvements, to the development as a provision of State law.



**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 505 WATER CONSTRUCTION FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 BEGINNING WORKING CAPITAL

301 BEGINNING WORKING CAPITAL

	-1,879,643		-992,721		-18,937,622		-18,937,622	-18,937,622	-8,804,155		-8,915,922			
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TOTAL CLASS: 05 BEGINNING WORKING CAPITAL

	-1,879,643		-992,721		-18,937,622		-18,937,622	-18,937,622	-8,804,155		-8,915,922			
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CLASS: 15 INTERGOVERNMENTAL REVENUE

329 OTHER INTERGOVERNMENTAL REV

	-750,000													
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TOTAL CLASS: 15 INTERGOVERNMENTAL REVENUE

	-750,000													
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CLASS: 20 PERMITS & FEES

346 WATER SDC REIMBURSEMENT FEES

	-23,066		-224,596		-200,000		-116,059	-100,000	-100,000		-100,000			
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353 WATER SDC IMPROVEMENT FEES

	-153,924		-1,292,505		-1,000,000		-767,865	-900,000	-900,000		-900,000			
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TOTAL CLASS: 20 PERMITS & FEES

	-176,990		-1,517,101		-1,200,000		-883,924	-1,000,000	-1,000,000		-1,000,000			
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CLASS: 35 MISCELLANEOUS REVENUES

384 INVESTMENT INTEREST EARNINGS

	-11,557		-11,043		-280,000		-235,470	-335,700	-346,600		-346,600			
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389 MISCELLANEOUS REVENUES

	-89,409				-158,000		-1,442	-270,000						
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TOTAL CLASS: 35 MISCELLANEOUS REVENUES

	-100,966		-11,043		-438,000		-236,912	-605,700	-346,600		-346,600			
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CLASS: 40 INTERFUND TRANSFERS/LOANS

419 TRSFERS FROM WATER FUND

**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 505 WATER CONSTRUCTION FUND

DEPT: 03 REVENUE

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
	-1,776,000		-1,230,000		-1,000,000			-1,000,000	-2,000,000		-2,000,000			
TOTAL CLASS: 40 INTERFUND TRANSFERS/LOANS														
	-1,776,000		-1,230,000		-1,000,000			-1,000,000	-2,000,000		-2,000,000			
CLASS: 45 NON-REVENUE RECEIPTS														
450 PROCEEDS-LOANS														
	-347,645				-1,100,000			-357,000	-1,272,000		-1,272,000			
451 BOND SALE PROCEEDS														
			-21,152,912						-30,000,000		-30,000,000			
TOTAL CLASS: 45 NON-REVENUE RECEIPTS														
	-347,645		-21,152,912		-1,100,000			-357,000	-31,272,000		-31,272,000			
TOTAL DEPARTMENT: 03 REVENUE														
	-5,031,244		-24,903,777		-22,675,622		-20,058,458	-21,900,322	-43,422,755		-43,534,522			

403

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 505 WATER CONSTRUCTION FUND

DEPT: 75 INFRASTRUCTURE PROJECTS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 15 CAPITAL OUTLAY

651	PROPERTY ACQUISTION(LAND/BLDG)												1,600,000	
652	RIGHT-OF-WAY AND EASEMENT COST		29,950				27,566	28,000	1,600,000					
682	CONSTRUCTION													
	3,162,592		4,501,489		10,989,147		3,844,731	7,935,000	21,165,000				18,885,000	
683	CONST DESIGN & ENGR INSPECTION													
	875,931		1,184,635		4,532,124		4,000,491	4,876,400	5,468,000				5,218,000	
687	INVESTMENT IN JOINT VENTURES EXP													
			250,080		100,000			145,000	11,144,000				11,764,000	

404 TOTAL CLASS: 15 CAPITAL OUTLAY

	4,038,523		5,966,154		15,621,271		7,872,788	12,984,400	39,377,000				37,467,000	
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CLASS: 30 FUND BAL/CONTINGENCY/RESERVES

993	RESERVE - BOND PROCEEDS													
					5,676,332				2,225,698				4,399,214	
994	RESERVE - SDC													
					1,378,019				1,820,057				1,668,308	

TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES

					7,054,351				4,045,755				6,067,522	
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TOTAL DEPARTMENT: 75 INFRASTRUCTURE PROJECTS

	4,038,523		5,966,154		22,675,622		7,872,788	12,984,400	43,422,755				43,534,522	
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**CAPITAL PROJECTS - SEWER FUND**

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 502 SEWER	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 3XXX SEWER PROJECTS	<b>PROGRAM MANAGER:</b> DAVID WINSHIP

**SANITARY SEWER PROGRAM**

**Increased-Capacity Projects**

Recommendations made in the city’s January 2004 Sanitary Sewer Collection System Master Plan, the 2009 Clean Water Services Master Plan and the 2019 Sanitary Master Plan are used by city staff to determine which projects are necessary to increase the capacity of the sewer system to serve new development and redevelopment and/or underdeveloped land.

**Replacement and Rehabilitation Projects**

The city’s sewer system is comprised of approximately 277 miles of piping ranging in size from 6 to 21 inches and more than 7,827 manholes. A significant portion of the sewer lines in older sections of the city and some newly annexed areas are nearing or exceeding 65 years of service, which is considered as the average useful life span of sanitary sewers. City staff evaluate all the older sewer lines with TV inspection and rate all older pipes and designate a systematic time line for replacement of each pipe in the CityWorks asset management program.

Sanitary Sewer projects budgeted for FY 2018-19 and FY 2019-20 are as follows:

**Progress on FY 2018-19 Action Plan:**

**CIP Projects**

- 4118B Settler Way Phase 2 – completed
- 5092A 175<sup>th</sup> Ave (Alvord Ln – Scholls Ferry) Roadway Improvements – completed
- 6000 Sanitary Sewer Master Plan - complete MP and South Cooper Mt update - completed
- 6000A System Development Charge Rate Study – study underway
- 6006 Erickson Trunk Upsizing (6<sup>th</sup> to SW Allen) CWS R110 – CWS IGA signed and design begun
- 6083 South Cooper Mt. Infrastructure Engineering – continued design
- 6095 Sellwood Subdivision Utility Improvements – continued design
- 6099 South Cooper Mountain (West) Additional Capacity Improvement (12”-24”) – being constructed by developers
- 8098A & 8089B Utility Improvements at Dover Ln Near Oleson Rd – continued design
- 3519A Canyon Rd Intersection Improvements (MSTIP) – continued design

**FY 2019-20 Action Plan:**

**CIP Projects**

- 4154 Urban Reserve 6B Analysis – begin design
- 6000A System Development Charge Rate Study - complete study
- 6006 Erickson Trunk Upsizing (6<sup>th</sup> to SW Allen) CWS R110 – complete design and begin construction
- 6095 Sellwood Subdivision Utility Improvements – complete construction
- 6096 McKay Subdivision Utility Improvements Phase 1 – begin design
- 8098A & 8089B Utility Improvements at Dover Ln Near Oleson Rd – complete design and begin construction
- 3410 Shared Use Path along Denny Rd – complete construction
- 3519A Canyon Rd Intersection Improvements (MSTIP) - design

**City of Beaverton  
CIP Financial Plan - SEWER  
FY 2018-19 Estimated**

Fund #	Acct #	CIP #	Project Name	Anticipated ENTIRE Project Total	Funding Source				Funding Total	
					SDC	Surcharge	Operating: Maint & Replacement	Grants, IGA		
<b>Sewer Capital Improvement Projects:</b>										
502	3811	6000	Sanitary Sewer Master Plan	250,000	150,000				150,000	
502	3811	6006	Erickson Trunk Upsizing (6th St - 10th St) CWS R110	2,067,000				50,000	50,000	
	3811	6083	S Cooper Mt Infrastructure Study	xxxx	5,000				5,000	
502	3811		Rate Study - City of Beaverton Sewer SDC	60,000	-				-	
<b>Total-3811 Sewer Collection System</b>						155,000	-	-	50,000	205,000

502	3812	5092A	175th Ave (Alvord Ln - Scholls Ferry) Roadway Improvements, MSTIP	480,000	137,500				137,500	
502	3812	6099	South Cooper Mtn (West) Additional Capacity Improvement (12"-24")	794,500	-			-	-	
<b>Total - 3812 South Cooper Mtn Project</b>						137,500	-	-	-	137,500

502	3850	3410	Shared Use Path along Denney (King Blvd- Fanno Creek Trailhead			8,000			8,000	
502	3850	3519A	Canyon Rd Intersection Improvements (MSTIP)			-			-	
502	3850	4118B	Settler Way Waterline Replacement, PH 2			275,000			275,000	
502	3850	6095	Sellwood Subdivision Utility Improvement Master Plan L	1,320,000		15,000			15,000	
502	3850	8098B	Utility Improvements at Dover Ln Near Oleson Rd (Dover North)	285,000		-			-	
502	3850	8098A	Utility Improvements at Dover Ln Near Oleson Rd (Dover South)	285,000		30,000			255,000	
<b>Total-3850 Maintenance &amp; Replacement</b>						-	328,000	-	-	553,000

<b>Totals =&gt;</b>					-	328,000	-	50,000	895,500
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**City of Beaverton  
CIP Financial Plan - SEWER  
FY 2019-20 Recommended**

Fund #	Acct #	CIP #	Project Name	Anticipated ENTIRE Project Total	Funding Source				Funding Total
					SDC	Surcharge	Operating: Maint & Replacement	Grants, IGA	
<b>Sewer Capital Improvement Projects:</b>									
502	3811	6006	Erickson Trunk Upsizing (6th St - 10th St) CWS R110	2,067,000				2,211,000	2,211,000
<b>Total-3811 Sewer Collection System</b>					-	-	-	2,211,000	2,211,000
502	3813	4154	Urban Reserve 6B Infrastructure Analysis	150,000	100,000				100,000
<b>Total - 3813 Cooper Mtn Project</b>					100,000	-	-	-	100,000
502	3850	3410	Shared Use Path along Denney (King Blvd- Fanno Creek Trailhead			8,000			8,000
502	3850	3519A	Canyon Rd Intersection Improvements (MSTIP)			10,000			10,000
502	3850	6095	Sellwood Subdivision Utility Improvement Master Plan L	1,320,000		85,000			85,000
502	3850	8098B	Utility Improvements at Dover Ln Near Oleson Rd (Dover North)	285,000		30,000			30,000
502	3850	8098A	Utility Improvements at Dover Ln Near Oleson Rd (Dover South)	285,000		255,000			255,000
502	3850	6096	McKay Subdivision Utility Improvement Phase 1	980,000		100,000			100,000
<b>Total-3850 Maintenance &amp; Replacement</b>					-	488,000	-	-	488,000
<b>Totals =&gt;</b>					100,000	488,000	-	2,211,000	2,799,000

### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 502 SEWER FUND

DEPT: 75 INFRASTRUCTURE PROJECTS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 15 CAPITAL OUTLAY

682 CONSTRUCTION

	252,018		685,176		1,965,352		375,774	400,500	2,205,000		2,399,000			
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683 CONST DESIGN & ENGR INSPECTION

	170,854		190,798		681,194		143,388	270,000	400,000		400,000			
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TOTAL CLASS: 15 CAPITAL OUTLAY

	422,872		875,974		2,646,546		519,162	670,500	2,605,000		2,799,000			
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TOTAL DEPARTMENT: 75 INFRASTRUCTURE PROJECTS

	422,872		875,974		2,646,546		519,162	670,500	2,605,000		2,799,000			
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**CAPITAL PROJECTS - STORM DRAIN FUND**

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2019-20 BUDGET

<b>FUND:</b> 513 STORM DRAIN	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 3XXX STORM DRAIN PROJECTS	<b>PROGRAM MANAGER:</b> DAVID WINSHIP

Listed below is the Storm Drainage (city directly funded construction projects) Program for FY 2018-19 and FY 2019-20 with action plan notes. Program is based upon some of the goals and objectives outlined on page XXX.

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

**CIP Projects**

- 3106 Menlo Drive Sidewalk Project → Construction completed
- 4118B Settler Way Utility Replacement Phase 2 → Completed
- 8098 Dover Area (South) Utility Rehabilitation and Replacement → Continue design
- 8101 Storm Drainage Master Plan → Work begun
- 8119 141th Ave (Millikan Way to Vernier Driveway) Storm Conveyance Pipe and stormwater outfall to Beaverton Creek Retrofit → Design completed, start construction
- 8122 Major CIPP Storm Pipe Rehabilitation/Replacement Project → Continue design and construction for this ongoing multi-year program
- 8130 144th Ave Flood Remediation and Habitat Restoration Project → Completed, two year plant establishment period started
- 8132 Small Works (includes activities such as debris screen replacements, roadway seepage mitigating, storm drain mural project, etc.) → Storm Drain Mural project was a success, roadway seepage at the Sorrento traffic circle fixed, storm drain service lateral to the Sorrento Water well site rehab complete
- 8135A/B 11750 SW BH Hwy Stormwater Outfall and 4140 SW Watson Ave Stormwater Outfall to Beaverton Creek Retrofit → Design started – Outsourced

**FY 2019-20 Action Plan:**

**CIP Projects**

- 3106 Menlo Drive Sidewalk Project → Two year plant establishment in roadside raingardens started
- 4150 Urban Reserve 6B Analysis - Storm → Begin Design
- 6006 Minor system enhancements in conjunction with Erickson SS trunk upsizing → Complete design, begin construction
- 6095 Sellwood Subdivision utility repairs prior to AC overlay → Complete design, complete construction
- 8098 Dover Area (South) Utility Rehabilitation and Replacement → Complete design, start construction
- 8101 Storm Drainage Conveyance Master Plan → Complete plan
- 8119 141th Ave (Millikan Way to Vernier Driveway) Storm Conveyance Pipe and stormwater outfall to Beaverton Creek Retrofit → Complete construction
- 8122 Major CIPP Storm Pipe Rehabilitation/Replacement Project → Continue design and construction for this ongoing multi-year program
- 8123 Existing Stormwater Pond Capacity Expansion. One pond expansion is anticipated → Work with PW Operations to complete
- 8132 Small Works (includes activities such as debris screen replacements, minor storm drain repairs such as roadway seepage mitigating, funding for general fund staff to work on storm projects, etc.) → Continue design and construction
- 8135A/B 11750 SW Beaverton-Hillsdale (BH) Hwy Stormwater Outfall and 4140 SW Watson Ave Stormwater Outfall to Beaverton Creek Retrofit → Design finished. start construction

**City of Beaverton**  
**CIP Financial Plan - STORM DRAIN**  
**FY 2018-19 Estimated**

Fund #	Proj #	CIP #	Project Name	Anticipated TOTAL Project Cost	Funding Source					Funding Total	
					SDC						
					Conveyance/ Extra Capacity	Stormwater Quantity	Stormwater Quality	Surcharge	Grants, IGA		
<b>Storm Capital Improvement Projects:</b>											
513	3915	8119	141st Ave (Millikan to Vernier) Conveyance Pipe and WQ Retrofit	770,000	25,000					25,000	
513	3915	8125	South Cooper Mtn Storm Conveyance		5,000					5,000	
513	3915	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges ( <i>annual recurring work item</i> )		-					-	
513	3915	8101	Stormwater Master Planning-Via City staff and resources, mostly	400,000				100,000		100,000	
<b>Total - 3915 Misc Conveyance/Extra Cap</b>						<b>30,000</b>	<b>-</b>	<b>-</b>	<b>100,000</b>	<b>-</b>	<b>130,000</b>
513	3916	8123	Existing Stormwater Pond capacity expansion at TBD ( <i>annual recurring work item</i> )	~30,000/yr			-			-	
513	3916	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges ( <i>annual recurring work item</i> )				-			-	
<b>Total - 3916 Storm Quantity Projects</b>						<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
513	3917	8023	Attempt to get ROW for Primary Treatment Vaults, WQ Retrofits, Four locations	120,000				-		-	
513	3917	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges ( <i>annual recurring work item</i> )					-		-	
<b>Total - 3917 Storm Quality Projects</b>						<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
513	3950	3410	Shared Use Path along Denney Rd (King Blvd Fanno Creek Trailhead) - associated Storm conduit R&R work					45,000		45,000	
513	3950	5089	Walker Rd and Murray Bv Intersection MSTIP - potential upgrade opportunity	MSTIP				-		-	

513	3950	5180	130th Ave (Hart Rd to Allen Bv) Street Side Rain Garden in the shape of Traffic Calming.					-		-
513	3950	8098A	Dover Area (South) Utility Rehabilitation and Replacement	500,000				31,500		31,500
513	3950	8098B	Dover Area (North) Utility Rehabilitation and Replacement	500,000				-		-
513	3950	8122	Major CIPP storm pipe rehab project (annual recurring work item)	15,000,000				10,000		10,000
513	3950	8130	144th Ave Flood Remediation & Habitat Restoration	155,000				29,500		29,500
513	3950	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges (annual recurring work item)					45,000		45,000
513	3950	3106A	Menlo Dr (Allen Blvd to Fairmount Dr)					786,000		786,000
513	3950	8135A	11750 SW Bvtn Hillsdale Hwy Stormwater Outfall to Beaverton Creek Retrofit	800,000				140,000		140,000
513	3950	8135B	4140 SW Watson Ave Stormwater Outfall to Beaverton Ck Retrofit	900,000				140,000		140,000
513	3950	4118B & 8136 & extra	Settler Wy Utility Replacements, Phase 2. & Rawhide Ct and Tennessee Ln storm pipe replacement & Sorrento Water Well Storm Service repair & misc point repairs	525,000				520,000		520,000
513	3950	6095	Sellwood Subdivision	225,000				35,000		35,000
<b>Total - 3950 Maintenance &amp; Replacement</b>								<b>1,782,000</b>		<b>1,782,000</b>

<b>Totals =&gt;</b>				<b>30,000</b>	-	-	<b>1,882,000</b>	-	<b>1,912,000</b>
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**City of Beaverton**  
**CIP Financial Plan - STORM DRAIN**  
**FY 2019-20 Recommended**

Fund #	Proj #	CIP #	Project Name	Anticipated TOTAL Project Cost	Funding Source					Funding Total	
					SDC						
					Conveyance/ Extra Capacity	Stormwater Quantity	Stormwater Quality	Surcharge	Grants, IGA		
<b>Storm Capital Improvement Projects:</b>											
513	3915	8119	141st Ave (Millikan to Vernier) Conveyance Pipe and WQ Retrofit	770,000	780,000					780,000	
513	3915	4154	South Cooper Mtn Storm Conveyance/ Master Planning share of UGB Expansion Area 6B		20,000					20,000	
513	3915	8101	Stormwater Master Planning-Via City staff and resources, mostly	400,000				300,000		300,000	
513	3915	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges ( <i>annual recurring work item</i> )		-					-	
<b>Total - 3915 Misc Conveyance/Extra Cap</b>						<b>800,000</b>	<b>-</b>	<b>-</b>	<b>300,000</b>	<b>-</b>	<b>1,100,000</b>
513	3916	8123	Existing Stormwater Pond capacity expansion at TBD ( <i>annual recurring work item</i> )	~30,000/yr		30,000				30,000	
513	3916	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges ( <i>annual recurring work item</i> )			35,000				35,000	
<b>Total - 3916 Storm Quantity Projects</b>						<b>-</b>	<b>65,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>65,000</b>
513	3917	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges ( <i>annual recurring work item</i> )				35,000			35,000	
513	3950	8135B	4140 SW Watson Ave Stormwater Outfall to Beaverton Ck Retrofit	2,500,000				200,000		200,000	
<b>Total - 3917 Storm Quality Projects</b>						<b>-</b>	<b>-</b>	<b>35,000</b>	<b>-</b>	<b>-</b>	<b>35,000</b>
513	3950	3410	Shared Use Path along Denney Rd (King Blvd Fanno Creek Trailhead) - associated Storm conduit R&R work					81,000		81,000	
513	3950	6006	Minor System Enhancements in conjunction with Erickson SS Trunk upsizing	2,067,000				50,000		50,000	

513	3950	8098A	Dover Area (South) Utility Rehabilitation and Replacement	500,000				220,000		220,000
513	3950	8098B	Dover Area (North) Utility Rehabilitation and Replacement	500,000				30,000		30,000
513	3950	8122	Major CIPP storm pipe rehab project (annual recurring work item)	15,000,000				620,000		620,000
513	3950	8132	Small Works Projects, Eng. Svcs., and In-house OH Charges (annual recurring work item)					190,000		190,000
513	3950	8135A	11750 SW Bvtn Hillsdale Hwy Stormwater Outfall to Beaverton Creek Retrofit	1,500,000				115,000		115,000
513	3950	8135B	4140 SW Watson Ave Stormwater Outfall to Beaverton Ck Retrofit	2,500,000				1,915,000		1,915,000
513	3950	6095	Sellwood Subdivision Storm Drain Utility Repairs prior to AC Overlay					420,000		420,000
513	3950	6096	McKay Subdivision Utility Impr, Ph 1					20,000		20,000
<b>Total - 3950 Maintenance &amp; Replacement</b>								<b>3,661,000</b>		<b>3,661,000</b>

<b>Totals =&gt;</b>					<b>800,000</b>	<b>65,000</b>	<b>35,000</b>	<b>3,961,000</b>	<b>-</b>	<b>4,861,000</b>
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### BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 513 STORM DRAIN FUND

DEPT: 75 INFRASTRUCTURE PROJECTS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 YTD	2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 15 CAPITAL OUTLAY

652 RIGHT-OF-WAY AND EASEMENT COST

			33,350		75,000				10,000		10,000			
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682 CONSTRUCTION

	318,700		274,837		2,598,000		1,628,851	1,350,500	5,090,000		4,305,000			
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683 CONST DESIGN & ENGR INSPECTION

	123,589		131,557		817,000		454,164	561,500	746,000		746,000			
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TOTAL CLASS: 15 CAPITAL OUTLAY

	442,289		439,744		3,490,000		2,083,015	1,912,000	5,846,000		5,061,000			
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TOTAL DEPARTMENT: 75 INFRASTRUCTURE PROJECTS

	442,289		439,744		3,490,000		2,083,015	1,912,000	5,846,000		5,061,000			
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414

**CAPITAL DEVELOPMENT FUND**

- **City Park Fountain Improvements Project**

City of Beaverton - Finance  
 Budget Preparation - 2020

**BP WORKSHEET & JUSTIFICATION**

FUND: 301 CAPITAL DEVELOPMENT FUND  
 DEPT: 03 REVENUE  
 PROGRAM: 3522 CITY PARK FOUNTAIN IMPROVEMENTS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 05 BEGINNING WORKING CAPITAL

301	BEGINNING WORKING CAPITAL				142,821		142,821	63,000		63,000			
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TOTAL CLASS: 05 BEGINNING WORKING CAPITAL

					142,821		142,821	63,000		63,000			
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CLASS: 40 INTERFUND TRANSFERS/LOANS

411	TRSFERS FROM GENERAL FUND				96,325		96,325	1,923,000					
		20,494		190,000									

TOTAL CLASS: 40 INTERFUND TRANSFERS/LOANS

		20,494		190,000		96,325		96,325	1,923,000				
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TOTAL PROGRAM: 3522 CITY PARK FOUNTAIN IMPROVEMENTS

		20,494		190,000		239,146		239,146	1,986,000			63,000	
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### BP WORKSHEET & JUSTIFICATION

FUND: 301 CAPITAL DEVELOPMENT FUND  
DEPT: 03 REVENUE  
PROGRAM: 3522 CITY PARK FOUNTAIN IMPROVEMENTS

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

301 BEGINNING WORKING CAPITAL

411 TRSFERS FROM GENERAL FUND  
SEE RESERVE IN GENERAL FUND #001.03.0003.974 \$600,000

**BP WORKSHEET & JUSTIFICATION**

FUND: 301 CAPITAL DEVELOPMENT FUND  
 DEPT: 70 COMMUNITY DEVELOPMENT DEPT  
 PROGRAM: 3522 CITY PARK FOUNTAIN IMPROVEMENTS

OBJ	2017 - ACTUAL		2018 - ACTUAL		2019 BUDGETED		2019 EST AMT	2020 - PROPOSED		2020 - RECOMD		2020 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE		AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE

CLASS: 15 CAPITAL OUTLAY

683 CONST DESIGN & ENGR INSPECTION

20,494 47,179 239,146 176,146 1,923,000 63,000

TOTAL CLASS: 15 CAPITAL OUTLAY

20,494 47,179 239,146 176,146 1,923,000 63,000

CLASS: 30 FUND BAL/CONTINGENCY/RESERVES

991 CONTINGENCY - UNRESERVED

63,000

TOTAL CLASS: 30 FUND BAL/CONTINGENCY/RESERVES

63,000

TOTAL PROGRAM: 3522 CITY PARK FOUNTAIN IMPROVEMENTS

20,494 47,179 239,146 176,146 1,986,000 63,000

### BP WORKSHEET & JUSTIFICATION

FUND: 301 CAPITAL DEVELOPMENT FUND

DEPT: 70 COMMUNITY DEVELOPMENT DEPT

PROGRAM: 3522 CITY PARK FOUNTAIN IMPROVEMENTS

OBJ	OBJECT DESCRIPTION
	JUSTIFICATIONS

683 CONST DESIGN & ENGR INSPECTION  
DESIGN FOR SAFETY AND OPERATIONAL IMPROVEMENTS \$63,000

991 CONTINGENCY - UNRESERVED