City of Mt. Angel
Infrastructure Task Force Report **March 2016**

Overview

The Mt. Angel City Council identified a goal for FY 15-16 to create a citizen task force to analyze costs and revenue sources for maintaining city, and possibly county infrastructure, inside city limits. The Council appointed the following individuals to the Infrastructure Task Force:

- Al Fiedler
- Don Fleck
- David Hoffer
- Jim Kosel
- Don Robison
- Dale Walker
- Pete Wall

The Task Force selected Al Fiedler as its chairman. Midway through the process, Don Robison withdrew due to other obligations. The Task Force met five times between October 2015 and February 2016. City staff and Westech Engineering provided support.

The Task Force received the following information as background:

- The three-year financial projections for the Water, Sewer and Street Funds
- A comparison of utility rates in neighboring jurisdictions
- A list of the service enhancement packages for the Public Works Department
- Lists of infrastructure needs (water, wastewater, streets and stormwater) for the next 10 years
- A list of utilities within city limits under Marion County jurisdiction

The Task Force discussed each of the city's infrastructure systems: water, wastewater, streets and stormwater needs. The Task Force briefly discussed parks and city facilities (i.e. city hall) but is aware there are other processes in place to address these needs and issues. Therefore the Task Force did not make a recommendation regarding facilities and parks.

Operating Needs for Public Works

Staff briefed the Task Force on the operations, staffing levels, services and budget of the Public Works Department, including the service enhancement packages presented to the Budget Committee last year. Instead of the full packages presented to the Budget Committee last year (for Public Works, 3.5 FTE were proposed), staff presented more modest options to the Task Force:

Option 1:		
Full-time Wastewater Operator (New position)	$72,000/yr	(Wages and benefits)
PW Admin Support (extra 8 hours)	$ 7,750/yr	(Wages only)

A second wastewater operator would provide additional support and back-up in wastewater operations, including weekend coverage. Currently, the existing wastewater operator checks the system on weekends which is generating significant overtime or compensatory

time for that individual. This is not only a financial obligation for the city, but causes this employee to work seven days per week (the weekend work is only for the 3 hour mandatory minimum.) This cost is expensed in the Sewer Fund, as would be the new position. The current operator is the only person on site at the plant and works alone quite frequently, creating potential safety issues. The cost for the operator would be offset by reductions in compensatory or overtime earned by the current wastewater operator.

Option 2:		
Hire Fulltime Utility Worker I (New position)	$63,000/yr	(Wages and benefits)
PW Admin Support (extra 8 hours)	$ 7,750/yr	(Wages only)

A Utility Worker I position would provide additional support for all of the city's utilities, including helping to monitor (but not operate) the wastewater treatment plant. As envisioned, this position would be deployed fully or partially on weekends, providing some regular weekend coverage for public works operations. Therefore the cost would be split between the various utility funds (as would the administrative support position) using the following breakdown:

	Split	UT 1	Admin
Water Utility Fund	35%	$22,050	$2,700
Sewer Utility Fund	35%	$22,050	$2,700
Street Utility Fund	10%	$ 6,300	$ 400
General Fund (Parks/Admin)	20%	$12,600	$1,950

Source Capital Needs Identification and Summary

The task force spent most of its time discussing the capital needs of the city's infrastructure systems. These projects came from the following plans: Wastewater System Master Plan, 2013; Water System Master Plan, 2010; Transportation System Master Plan, 2003; Revised (1997 Adopted) and Stormwater System Master Plan, 2002.

The projects are shown in Attachment A to this report. In summary, the total system needs are, in current year financial estimates, broken down between SDC-eligible and non-SDC eligible (i.e. Reserve Fund) costs. The task force focused primarily on projects that are expected to be undertaken in the next 10 years:

	SDC Funds	**Reserves**	**Total**
Water System Projects	$2,284,775	$1,665,080	$3,949,855
Wastewater System Projects	$1,223,000	$5,625,000	$6,848,000
Street System Projects	$8,391,700	$3,335,000	$11,726,700
Stormwater System Projects	$1,883,080	$0	$1,883,080
Total (Years 1-10)	$13,782,555	$10,625,080	$24,407,635

Mt. Angel Utility Rates: History and Rate Comparisons

The City of Mt. Angel imposes user charges to pay for the operations and capital needs of its water and sewer systems. The City's current rate structure and rate history dating back to 1999/2000 are shown here:

Recent History of Water and Sewer Rate Changes - Residential

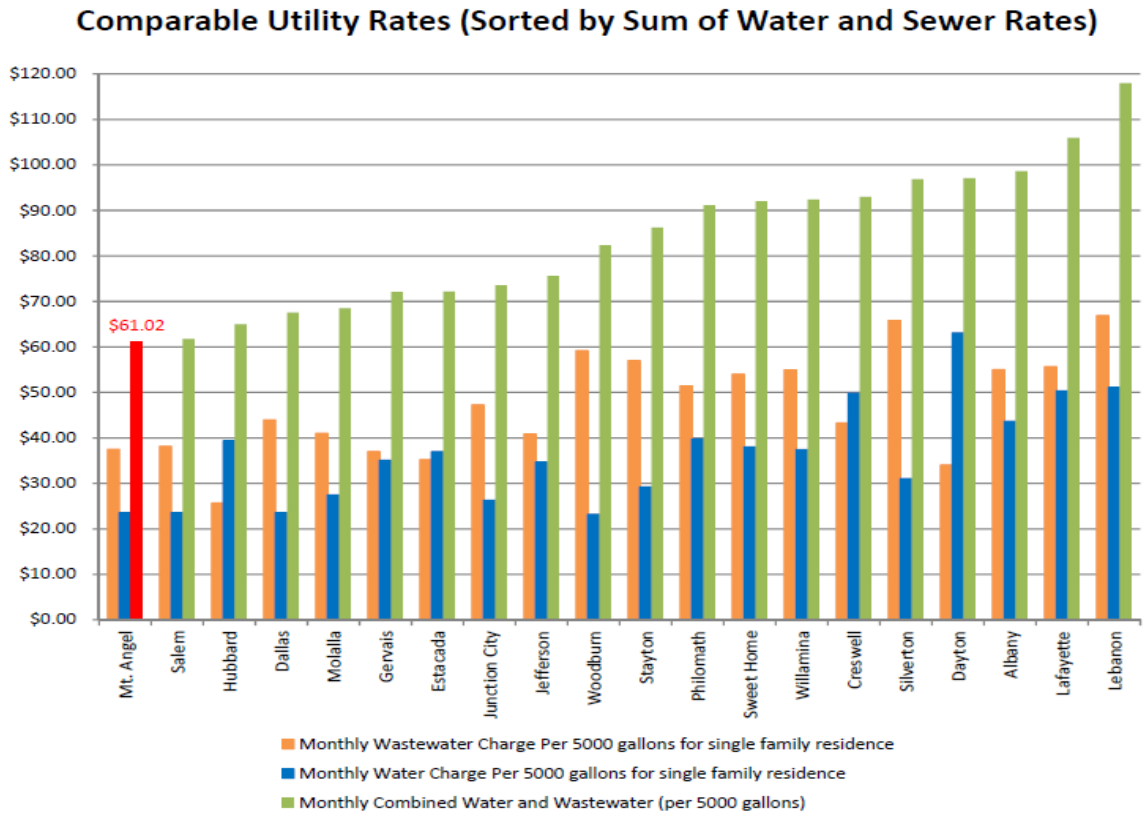
				% Change
1999/2000				
Sewer	Base Rate	1 EDU	$31.00	
Water	Base Rate	3/4 Meter	$7.50	
	Usage	1 Unit (100 cu ft)	$1.62	
2001				
Sewer	Base Rate	1 EDU	$34.00	9%
Water	Base Rate	3/4 Meter	$8.25	9%
	Usage	1 Unit (100 cu ft)	$1.67	3%
2005				
Sewer	Base Rate	1 EDU	$35.00	3%
Water	Base Rate	3/4 Meter	$10.50	21%
	Usage	1 Unit (100 cu ft)	$1.80	7%
2009				
Sewer	Base Rate	1 EDU	$37.50	7%
Water	Base Rate	3/4 Meter	$10.82	3%
	Usage	1 Unit (100 cu ft)	$1.90	5%

This chart suggests the City is overdue in looking at its utility rates. However, the Task Force is aware the City Council wanted to keep household expenses as low as possible due to the recession between 2008 and 2010. In fact, this was the case across many cities and many are working to catch up now.

The chart on the following page compares the City's utility rates with other jurisdictions in the region and around the state. To make this comparison, Westech added Mt. Angel's rate information into a database it keeps. To equalize the comparisons, the assumed monthly

water consumption rate is 5000 gallons of water. (The City of Mt. Angel bills on the basis of cubic feet.)

The chart shows that of the comparable cities, Mt. Angel's utility rates (water and sewer combined = $61.02) are the lowest. The highest combined rate is the city of Lebanon where the monthly utility bill is just under $120.00 per month. These are figures for a single family residence.



Financial Projections, Scenarios & Recommendations: Water and Sewer Funds

Next, the task force examined the three-year financial projections for the Water and Sewer funds, as shown in Attachment B. Staff presented the original projection (presented to the City Council in June, 2015) and several other scenarios designed to raise sufficient revenue to address the operations and capital needs *for at least the years of the projection*, and slightly beyond to the point where there is a growing fund balance to ensure the ability to make future contributions to reserves for projects beyond the projection period.

Five scenarios were presented for the Water Fund showing increases in revenues ranging from 7% to 20%, and based on the following assumptions about operating and capital needs (i.e. transfers to the utility reserve fund):

Scenario #1W:	$25,000	$25,000	$25,000	Utility Worker 1 + Admin
	$110,000	$0	$0	Transfer to Reserve
	7%	5%	5%	Increase in Revenue
Scenario #2W:	$25,000	$25,000	$25,000	Utility Worker 1 + Admin
	$110,000	$0	$0	Transfer to Reserve
	10%	5%	5%	Increase in Revenue
Scenario #3W:	$25,000	$25,000	$25,000	Utility Worker 1 + Admin
	$100,000	$100,000	$100,000	Transfer to Reserve
	20%	7.5%	7.5%	Increase in Revenue
Scenario #4W:	$25,000	$25,000	$25,000	Utility Worker 1 + Admin
	$110,000	$0	$0	Transfer to Reserve
	15%	5%	5%	Increase in Revenue
Scenario #5W:	$25,000	$25,000	$25,000	Utility Worker 1 + Admin
	$110,000	$100,000	$100,000	Transfer to Reserve
	20%	15%	10%	Increase in Revenue

Two scenarios were presented for the Sewer Fund (one showing the Wastewater Operator position, one showing the Utility Worker I position) both of which showed a revenue increase of 10%.

Scenario #1S:	$72,000	$72,000	$72,000	WW Operator + Admin
	$175,000	$175,000	$175,000	Transfer to Reserve
	10%	5%	5%	Increase in Revenue
Scenario #2S:	$25,000	$25,000	$25,000	Utility Worker 1 + Admin
	$175,000	$175,000	$175,000	Transfer to Reserve
	10%	5%	5%	Increase in Revenue

Recommendations: The task force recommends the City Council adopt Scenario #4W for the Water Fund and Scenario #2S for the Sewer Fund. Both scenarios indicate a preference for adding the Utility Worker I position (plus the admin support) over the Wastewater Treatment Plant Operator position. Further, Scenario #4W is similar to Scenario #2W but infuses more revenue into the fund earlier. This creates the opportunity for building up transfers to the Water Utility Reserve sooner versus later.

Effect of Recommendations on Mt. Angel Utility Customers

The task force also considered the impact of its recommendations on city utility customers. This analysis involved staff extracting data from the City's utility system database of various customer types in the system. Staff selected the following actual accounts to illustrate for demonstration purposes:

	Current	FY 16-17	FY 17-18	FY 18-19
Residential customer (3/4" meter) and typical (e.g. 6.5 units) water use, 1 ERU sewer:				
Water (Base + Use)	$23.15	$26.62	$27.95	$29.35
Sewer	$37.50	$41.25	$43.31	$45.48
Combined	$60.65	$67.87	$71.27	$74.83
Residential customer (3/4" meter) and higher (e.g. 38.8 units) water use, 1 ERU sewer:				
Water (Base + Use)	$ 84.52	$ 97.20	$102.06	$107.16
Sewer	$ 37.50	$ 41.25	$ 43.31	$ 45.48
Combined	$122.02	$138.45	$145.37	$152.64
Small commercial with 3/4" meter, water usage (e.g. 2.4 units) and 1 ERU sewer:				
Water (Base + Use)	$15.34	$17.64	$18.53	$19.45
Sewer	$37.50	$41.25	$43.31	$45.48
Combined	$52.84	$58.89	$61.84	$64.93
Large commercial with 2" meter, water usage (e.g. 96.3 units) and 3 ERUs sewer:				
Water (Base + Use)	$268.92	$309.26	$324.72	$340.96
Sewer	$112.50	$123.75	$129.94	$136.43
Combined	$381.42	$433.01	$454.66	$477.40
Industrial with 2" meter, water usage (e.g. 67.93 units) and 4 ERUs sewer:				
Water (Base + Use)	$215.08	$247.34	$259.71	$272.69
Sewer	$150.00	$172.50	$181.13	$190.18
Combined	$365.08	$419.84	$440.83	$462.87
Institutional with 4" meter, water usage (e.g. 141.6 units) and 10 ERUs sewer:				
Water (Base + Use)	$ 641.81	$ 738.08	$ 774.98	$ 813.73
Sewer	$ 375.00	$ 412.50	$ 433.13	$ 454.78
Combined	$1,016.81	$1,150.58	$1,208.10	$1,268.51

Comparison with Comparator Cities

In addition, staff compared the new rates with the comparator cities. Again, to make the comparison similar, the assumed water consumption is 5000 gallons per month. The task force recommendation would increase the combined rate for Mt. Angel from $61.02 to $77.37 by FY 18-19. This would put Mt. Angel's combined utility rate, *in three years*, in the middle of the list of current rates, somewhere between where the cities of Jefferson and Woodburn *are currently*. Again, many cities are also updating their utility rates. Therefore,

it's possible that by FY 18-19, the City of Mt. Angel could be on the low end of the scale once again.

Street and Stormwater Capital Needs & Recommendations

The task force reviewed the financial projection for the Street Fund (there is no projection for the new Stormwater Fund) but treated these two utilities differently. At a glance, the projection for the Street Fund would indicate the fund is healthy with a comfortable margin between Contingency and Fund Balance. However, there are *no contributions* to the Street Utility Reserve assumed in the projection. In other words, no transfers are made.

The task force reviewed the list of street projects presented by staff. The projects come from the 2003 Transportation System Plan, the 2015 Transportation SDC update, and an estimate of street overlay and reconstruction needs prepared by Public Works and Westech. The combined list includes:

	SDC Fund	Reserve	Total
Street Overlays & Reconstructs	$0	$2,795,000	$2,795,000
Reconstructions (SDC eligible)	$2,242,900	$0	$2,242,900
New Construction	$5,662,500	$540,000	$6,202,500
Bike and Ped Projects	$486,300	$0	$486,300
Total (Years 1-10)	$8,391,700	$3,335,000	$11,726,700

The task force also received a of list streets where crack sealing is recommended. Crack sealing is an operational expense and therefore budgeted in the Street Fund (versus the Street Reserve Fund.) Given the extent of the list, the Public Works Superintendent recommends increasing the appropriation for crack sealing by $5,000 in FY 16-17, for a total of $10,000. It is well documented that preventative maintenance, such as crack sealing, is a cost-effective means of extending street life. Mt. Angel has several streets that are relatively new (e.g. Maple, St. Mary's Circle, Lynden Ln., Willow Ct.) The useful life of these streets would benefit greatly from preventative maintenance applications such as crack sealing.

Regarding the city's stormwater needs, the list of projects is shorter and the total cost is less than the other infrastructure systems. Unfortunately, there has been very little investment made in stormwater projects in the past.

	SDC Fund	Reserve	Total
Stormwater Improvements	$1,883,080	$0	$1,883,080

The task force discussed the list of improvements and staff recommended that one project, a 48 inch pipe in the vicinity of Academy St. and Wilco Hwy, would most effectively address the city's stormwater needs in the short term. This project is estimated at $881,900 and is

100% SDC eligible. Unfortunately, the fund balance in the Stormwater SDC Fund is so low ($20,000) that it will take several years to amass the funds to pay for this project.

Recommendations: The City has extensive street and stormwater needs, with limited funding to pay for them. The primary revenue source in the Street Fund is the state highway gas tax. The fund also receives contributions from the Water and Sewer funds. Mt. Angel does not have a local funding source such as a local gas tax or street maintenance fee, as other Oregon communities have enacted or are considering. Likewise, the City has a Stormwater SDC which pays for new capital projects that increase the city's stormwater system capacity, but there is no dedicated revenue source to pay for maintenance. This is an additional burden on the Street Fund.

As a result, staff suggested the task force consider ways to 'lighten the load' on the Street Fund in order to: 1) increase the crack sealing budget, 2) off-load the stormwater maintenance program, and 3) improve the ability to make transfers to the Street Reserve Fund for future capital projects. To do this, the task force discussed the existing obligations of the Street Fund (e.g. street maintenance, stormwater maintenance, street lighting, street tree maintenance, sidewalk maintenance) and considered which program(s) might be conducive to a dedicated fee that would be understandable to the general public, perceived as equitable, and therefore potentially acceptable.

The task force recommends the following new fees be imposed:

Street Lighting Fee:	$3 flat fee, per utility account
Stormwater Maintenance Fee:	$2 per ERU

The street lighting fee would be used to offset what the City of Mt. Angel pays to PGE for street lights. A flat fee was recommended (rather than developing a methodology based on number of street poles) on the basis that there is equal enjoyment of a city that is lit at night. Alternatively, the task force recommended a stormwater maintenance fee based on equivalent residential units (ERUs) on the basis that those with more than one ERU likely have more impervious surface (and therefore more stormwater run-off.)

The amount of these fees was based on a survey of some of the comparator cities. The survey identified what types of stormwater or street fees are in place and methodologies might be in use. This summary is included as Attachment C. The task force opted for a simplified approach in introducing such new fees to the community.

Combined Effect of Recommendations on Mt. Angel Utility Customers

The task force was satisfied to conclude its meetings without looking at the combined effects of its recommendations on city utility customers. This is because the task force felt it would not change the nature of its recommendations. However, the task force is aware of this information now, having reviewed a preliminary draft of this report.

Again, the examples below represent actual utility accounts in the system:

	Current	FY 16-17
Residential customer (3/4" meter) and typical (e.g. 6.5 units) water use, 1 ERU sewer:		
Water (Base + Use)	$23.15	$26.62
Sewer	$37.50	$41.25
Street Light Fee		$3.00
Stormwater Fee		$2.00
Combined	$ 60.65	$ 72.87
Industrial with 2" meter, water usage (e.g. 67.93 units) and 4 ERUs sewer:		
Water (Base + Use)	$ 215.08	$ 247.34
Sewer	$ 150.00	$ 172.50
Street Light Fee		$3.00
Stormwater Fee		$8.00
Combined	$ 365.08	$ 430.84
Institutional with 4" meter, water usage (e.g. 141.6 units) and 10 ERUs sewer:		
Water (Base + Use)	$ 641.81	$ 738.08
Sewer	$ 375.00	$ 412.50
Street Light Fee		$3.00
Stormwater Fee		$20.00
Combined	$1,016.81	$1,173.58

County Infrastructure and Recommendation

Lastly, the task force considered the City Council's request to also look at infrastructure under the jurisdiction of Marion County but which is inside Mt. Angel's city limits. The purpose of this request was to attempt to reduce the amount of jurisdictional conflicts, especially in relation to the development process. This list is included in Attachment D.

The task force asked for staff's recommendation about the list and the PW Superintendent stated he would be comfortable taking on anything on E. Marquam, but not Academy St. or W. Marquam because these are incomplete or unimproved systems. East Marquam is 3,410 linear feet of paved street and hard line stormwater improvements with a total estimated value of $1,705,000. Therefore, staff would be amenable to opening discussions with Marion County about taking over maintenance responsibility for this stretch of Marquam St.

Attachments:
A – Capital Project Needs for Water, Sewer, Streets and Stormwater
B – Water and Sewer Projections and Scenarios
C – Stormwater and Street Fees Survey
D – County Infrastructure Inside City Limits

Water Distribution System Projects

ITF Report - Attachment A

Most are identified in the existing water master plan. A few have been modified or added by Public Works staff (* = Projects identified and added by Public Works). Prioritized as follows:

	Project Description	Length	Master Plan Estimate	Current Estimate (+30%)	Timeline	% SDC Eligible	SDC Fund	Reserve Fund
1	* New 8" line down Towers Lane North to the Kraemer property to allow for a tie in for the Grandview Estates Project. Could also loop through to connect with the 8" line on Brenden Lane.	1550'	$ 180,000	$ 234,000	Late 2016	80%	$ 187,200	$ 46,800
2	New 8" lines on John St. between N. Main St. and W. Marquam St. and also on Monroe St. From N. Main St. to W. Marquam St. and on W. Marquam St. from Monroe St. to N. Main St.	1,500'-1,600'	$ 280,000	$ 364,000	2017	50%	$ 182,000	$ 182,000
3	New 8" line on W. College / Cindy Lane & City R.O.W. connecting on Lincoln St. @ W. College and again on Lincoln St. at the existing R.O.W. (3 services currently connected to a 2" PVC line running down the R.O.W. from Cindy Lane would be reconnected to the existing 6" line on Lincoln St).	900'	$ 110,000	$ 143,000	2018	30%	$ 43,000	$ 100,000
4	New 8" line on E.College St. from Main St. to E. Church St. @ Oak St.	1130'	$ 141,250	$ 183,625	2019	60%	$ 110,175	$ 73,450
5	New 8" line on Sheridan St. between Taylor St. and E. College St.	520'	$ 65,000	$ 84,500	2019	50%	$ 42,250	$ 42,250
6	New 8" line on N. Garfield between Taylor St. and E. College St.	530'	$ 66,250	$ 86,125	2019	60%	$ 51,675	$ 34,450
7	New 8" line on St.Mary's Ave. between Taylor St. and E. College St.	960'	$ 79,500	$ 103,350	2020	30%	$ 31,005	$ 72,345
8	New 12" line on Academy St. from Humpert Lane to Leo St.	1690'	$ 312,650	$ 406,445	2021	45%	$ 182,900	$ 223,545
9	New 8" line on May St. from S. Main St. to Fir St. and the continuing west to the connection point of the proposed new transmission main extension into the Southwest UGB.	2,300'	$ 370,300	$ 481,390	2020	55%	$ 264,765	$ 216,625
10	New 12" line on E. Marquam St. between Elm St. and N. Sheridan St.	430'	$ 79,550	$ 103,415	2022	45%	$ 46,535	$ 56,880
11	New 8" line on Cherry St. between Taylor St. and E. College St.	980'	$ 122,500	$ 159,250	2022	60%	$ 95,550	$ 63,700
12	New 8" line on Birch St. between Taylor St. and E. Marquam St.	900'	$ 166,500	$ 216,450	2023	60%	$ 129,870	$ 86,580
13	New 12" line on John St. from W. Marquam St. going North to the industrial park.	1080'	$ 199,800	$ 259,740	2026	45%	$ 116,880	$ 142,860
14	New 12" line between wilco highway (S. Main) through the Benedictine Sisters Property to Highway 214 at Academy St.	1590'	$ 294,150	$ 382,395	2024	60%	$ 229,435	$ 152,960
15	New 12" line on E. Marquam St. between Elm St. and Birch St.	1,290'	$ 238,650	$ 310,245	2025	45%	$ 139,610	$ 170,635
16	New 8" line between S. Garfield St. & S. Cleveland St. Near Festhall.	290'	$ 36,250	$ 47,125	2023	100%	$ 47,125	$ -
17	New 12" line on the west and south boundaries of the industrial park, connecting to the John St. water line and to the line on N. Main.	1,680'	$ 296,000	$ 384,800	2027	100%	$ 384,800	$ -
	Total	**20,280'**	**$3,038,350**	**$3,949,855**	**12 Years**	**51%**	**$ 2,284,775**	**$ 1,665,080**

Wastewater System Projects

	Project Description	Length	Diameter	Master Plan Estimate	Timeline	% SDC Eligible	SDC Fund	Reserve Fund
1	Main Trunk Sewer – Manhole #5 to New Manhole #100	2,040	24	$ 612,000	2017	30%	$ 183,000	$ 429,000
2	North Trunk Sewer – Marquam St. MH #100 to Pershing St. MH #20	900	18	$ 340,000	2019	25%	$ 85,000	$ 255,000
3	North Trunk Sewer - Marquam Street MH #20 to Railroad MH #25	400	15	$ 142,000	2020	10%	$ 14,200	$ 127,800
4	North Trunk Sewer - Marquam Street MH #25 to Main St MH #60	830	12	$ 375,000	2021	40%	$ 150,000	$ 225,000
5	South Trunk Sewer - Segment 1 New MH #100 to May Street MH #130	1,950	18	$ 596,000	2022	100%	$ 596,000	$ -
6	South Trunk Sewer - MH #136 to MH #146	1,200	12	$ 357,000	2025	20%	$ 71,400	$ 285,600
7	Construct New Line from MH 115 to MH 109	80	10	$ 50,000	2026	10%	$ 5,000	$ 45,000
8	Treatment Plant Access Road Improvements			$ 85,000	2024	50%	$ 42,500	$ 42,500
9	Wetland Improvements, effluent boxes, influent valves			$ 69,000	2024	n/a	$ -	$ 69,000
10	Effluent Pump Station Confined Space Entry Improvements			$ 39,000	2024	n/a	$ -	$ 39,000
11	South Trunk Sewer - May Street MH #130 to MH #135	500	15	$ 171,000		n/a	$ -	$ 171,000
12	South Trunk Sewer – South. Pershing Street MH #135 to MH #136	325	15	$ 128,000		30%	$ 38,400	$ 89,600
13	Headworks Improvements			$ 528,000		n/a	$ -	$ 528,000
14	Lagoon Cell 1 Sludge Removal			$ 888,000		n/a	$ -	$ 888,000
15	Effluent Pump Station Electrical and Control System Modernization			$ 460,000		n/a	$ -	$ 460,000
16	Facilities Plan Update			$ 75,000		50%	$ 37,500	$ 37,500
17	Sewer Basin 1 Trunk Sewer	2,400	8	$ 493,000		n/a	$ -	$ 493,000
18	Sewer Basin 2 West Trunk Sewer	1,400	8	$ 300,000		n/a	$ -	$ 300,000
19	Sewer Basin 2 East Trunk Sewer	1,200	8	$ 252,000		n/a	$ -	$ 252,000
20	Sewer Basin 3 Trunk Sewer	1,600	8	$ 336,000		n/a	$ -	$ 336,000
21	Sewer Basin 7 Southwest Trunk Sewer	2,100	10	$ 552,000		n/a	$ -	$ 552,000
	Total:	**14,825**		**$6,848,000**		**17%**	**$ 1,223,000**	**$ 5,625,000**

Ongoing Maintenance		
Sewer Cleaning and Inspection Program (Program – 1)	$13,000	Per Year
Annual I/I Correction Program (Program – 2)	$100,000	Per Year
Total of Recurring Annual Programs:	**$113,000**	

Street Projects

ITF Report - Attachment A

	Project Location	Project Desciption	Length (ft)	Master Plan Estimate	Current Estimate	Timeline	% SDC Eligible	SDC Fund	Reserve Fund
1	W. Marquam St., R.R. Ave. to N. Main St.	Overlay	715		$ 80,000		0%	$ -	$ 80,000
2	E. Church St., Hwy 214 to Sheridan St.	Overlay	695		$ 80,000		0%	$ -	$ 80,000
3	E. College St., Cleveland St. to Oak St.	Overlay	516		$ 50,000		0%	$ -	$ 50,000
4	Alder from Taylor St. and E. Marquam St.	Overlay	870		$ 90,000		0%	$ -	$ 90,000
5	Cherry Street South End to E. College St.	Fine Grade & Overlay	220		$ 13,000		0%	$ -	$ 13,000
6	N. Cleveland Street, E. College to Taylor St.	Fine Grade & Overlay	445		$ 27,000		0%	$ -	$ 27,000
7	W. College St. , R.R. Ave. to Lincoln St.	Fine Grade & Overlay	415		$ 25,000		0%	$ -	$ 25,000
8	John St. , W.Marquam St. to Clement St.	Fine Grade & Overlay	405		$ 24,500		0%	$ -	$ 24,500
9	Franklin St. , Main St. to west end of St.	Fine Grade & Overlay	795		$ 47,500		0%	$ -	$ 47,500
10	Monroe St. , W. Marquam St. to Franklin St.	Fine Grade & Overlay	220		$ 13,000		0%	$ -	$ 13,000
11	N. Sheridan St., Taylor to E. Marquam St.	Grind, Fine Grade, Overlay	670		$ 57,000		0%	$ -	$ 57,000
12	N.Garfield St., Taylor St. to E. Marquam St.	Grind, Fine Grade, Overlay	410		$ 39,000		0%	$ -	$ 39,000
13	W. Charles St., R.R. Ave. to Lincoln St.	Reconstruction	470		$ 190,000		0%	$ -	$ 190,000
14	R.R. Ave., W. Church St. to W. Marquam St.	Reconstruction	1290		$ 550,000		0%	$ -	$ 550,000
15	N. Pershing, W. Marquam to N. City Limits	Reconstruction	1100		$ 430,000		0%	$ -	$ 430,000
16	Birch St. , Taylor St. to E. Marquam St.	Reconstruction	860		$ 385,000		0%	$ -	$ 385,000
	Alder St. , Taylor St. to E. College St.	Reconstruction	1390		$ 590,000		0%	$ -	$ 590,000
17	May St. , S. Main St. to Fir St.	Reconstruction	920		$ 390,000		0%	$ -	$ 390,000
		Total Non-SDC	**12,406**		**$ 3,081,000**		**0%**	**$ -**	**$ 3,081,000**
18	E. Church St - Cleveland to College	Reconstruction	Unk	$ 130,000	$ 193,000	1 to 10	100%	$ 193,000	$ -
19	E College St - Church to City Limits	Reconstruction	Unk	$ 560,000	$ 831,200	1 to 10	100%	$ 831,200	$ -
20	Realignment Hwy 214/Marquam Intersection	Reconstruction	Unk	Unk	$ 300,000	1 to 20	100%	$ 300,000	$ -
21	Marquam St.	Railroad Crossing Imp	Unk	$ 125,000	$ 185,500	1 to 10	100%	$ 185,500	$ -
22	Church/Main/Highway 214/Railroad Avenue	Intersection Imprvmts	Unk	$ 410,000	$ 608,600	1 to 10	100%	$ 608,600	$ -
23	Hwy 214@ Industrial Way	Left Turn Pocket	Unk	$ 84,000	$ 124,600	10 to 20	100%	$ 124,600	$ -
		Total SDC			**$ 2,242,900**			**$ 2,242,900**	

New Construction

	Project Location	Project Desciption	Length	Master Plan Estimate	Current Estimate	Timeline	% SDC Eligible	SDC Fund	Reserve Fund
24	Birch St., Taylor St. south to E. College St	New Construction	750	*	$ 320,000	ADC	0%	$ -	$ 320,000
25	Sherman St. , R.R. Ave. to Lincoln St.	New Construction	495	*	$ 220,000	ADC	0%	$ -	$ 220,000
26	E/W Street - Pershing to Marquam St	New Construction		$ 560,000	$ 831,200	ADC	100%	$ 831,200	$ -
27	N/S Street - W Church to Marquam	New Construction		$ 365,000	$ 541,800	ADC	100%	$ 541,800	$ -
28	N/S Street - Marquam to New N/S Conn	New Construction		$ 400,000	$ 593,700	ADC	100%	$ 593,700	$ -
29	E/W Street - Hwy 214 to City Limits	New Construction		$ 400,000	$ 593,700	ADC	100%	$ 593,700	$ -
30	Maple Street Extension	New Construction		$ 400,000	$ 593,700	ADC	100%	$ 593,700	$ -
31	N/S Street - Maple to W Church	New Construction		$ 400,000	$ 593,700	ADC	100%	$ 593,700	$ -
32	Spruce Street Extension	New Construction		$ 100,000	$ 148,400	ADC	100%	$ 148,400	$ -
33	Oak Street Extension	New Construction		$ 350,000	$ 519,500	ADC	100%	$ 519,500	$ -
34	May Street Extension	New Construction		$ 420,000	$ 623,400	ADC	100%	$ 623,400	$ -
35	Winchester St SW/Main St SE Connection	New Construction		$ 420,000	$ 623,400	ADC	100%	$ 623,400	$ -
		Total			**$ 6,202,500**			**$ 5,662,500**	**$ 540,000**

** Project #24 and #25 can be considered SDC eligible if added to the CIP list*

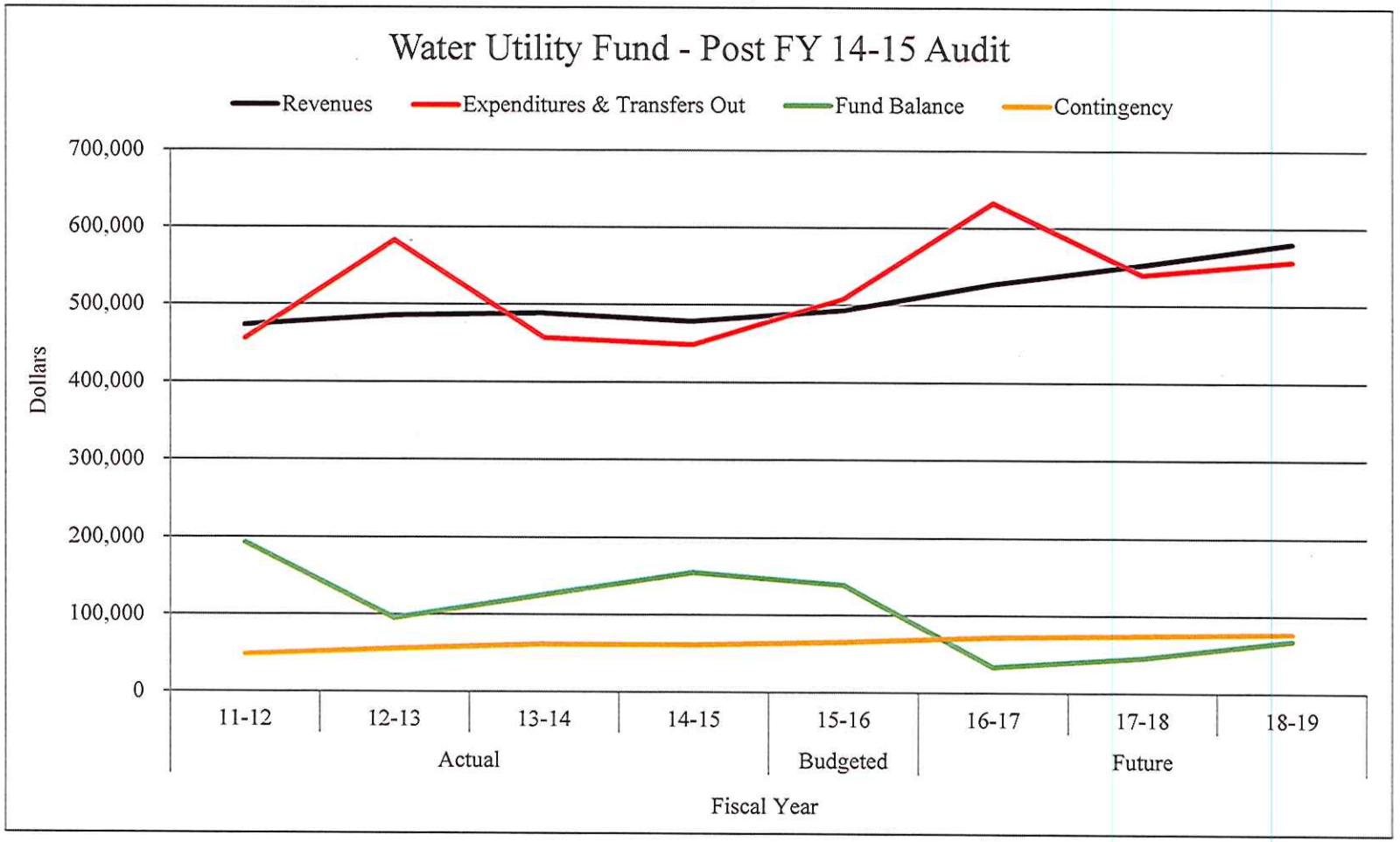
Bike and Pedestrian

	Project Location	Project Desciption	Length	Master Plan Estimate	Current Estimate	Timeline	% SDC Eligible	SDC Fund	Reserve Fund
36	Hwy 214 to Oak St	Multi-use Path		$ 16,850	$ 25,000	1 to 10	100%	$ 25,000	$ -
37	Birch to S Cleveland	Multi-use Path		$ 28,000	$ 41,500	1 to 10	100%	$ 41,500	$ -
38	Alder - College to Taylor	Multi-use Path		$ 5,600	$ 8,300	1 to 10	100%	$ 8,300	$ -
39	Alder - Taylor to Marquam	Bike & Ped		$ 63,000	$ 93,500	1 to 10	100%	$ 93,500	$ -
40	Taylor to Marquam	Bike & Ped		$ 51,000	$ 75,700	1 to 10	100%	$ 75,700	$ -
41	W Church - Fir to City Limit	Bike & Ped		$ 15,000	$ 22,200	1 to 10	100%	$ 22,200	$ -
42	S Main - Church to City L.	Bike & Ped		$ 27,000	$ 40,000	1 to 10	100%	$ 40,000	$ -
43	W Marquam - N. Main to R.R.	Bike & Ped		$ 30,000	$ 44,500	1 to 10	100%	$ 44,500	$ -
44	W Marquam - RR to West City Limit	Bike & Ped		$ 90,000	$ 135,600	1 to 10	100%	$ 135,600	$ -
		Total			**$ 486,300**			**$ 486,300**	

Stormwater System Projects

ITF Report - Attachment A

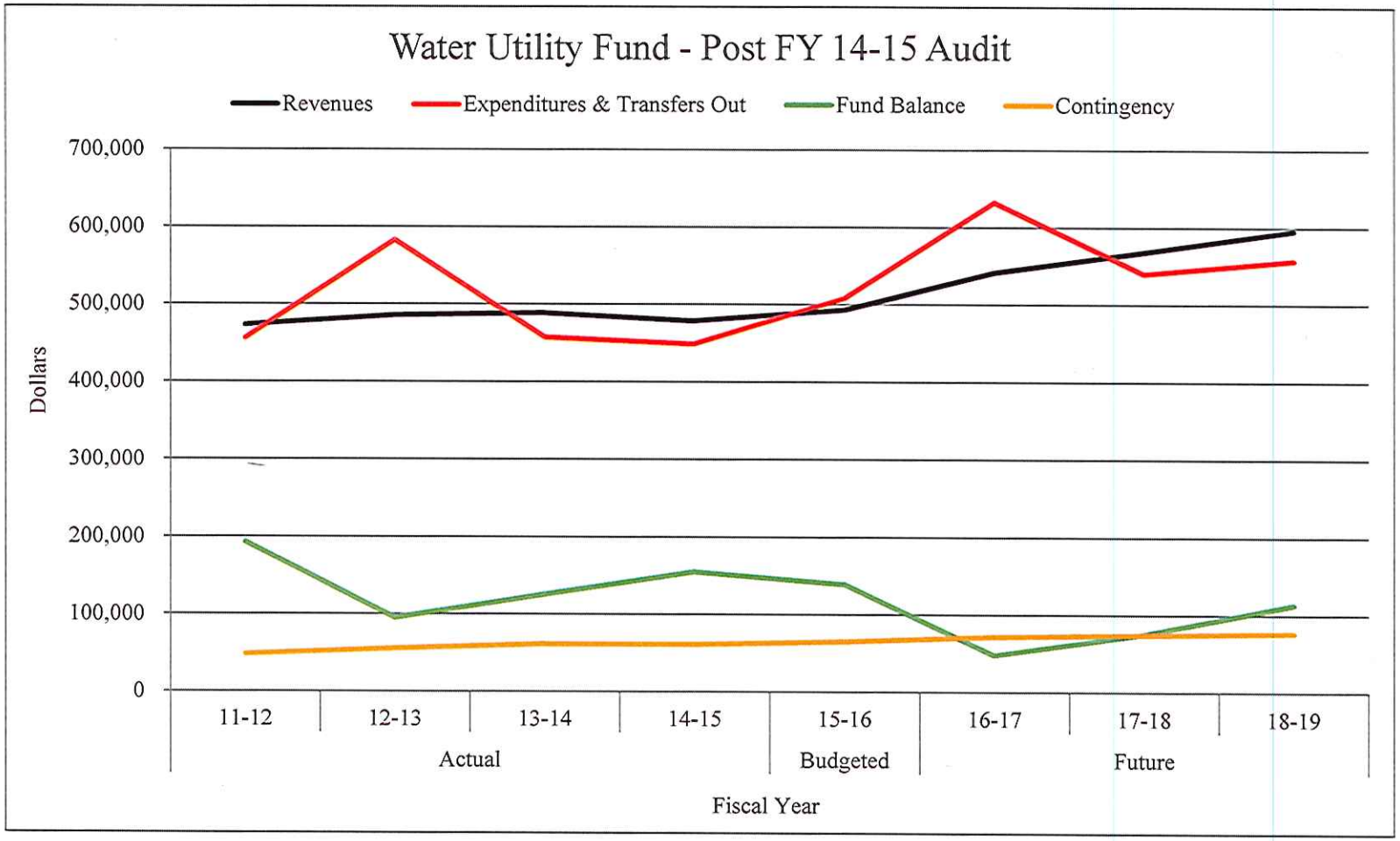
	Project Description	Length (ft)	Master Plan Estimate	Current Estimate (+52%)	Timeline (Years)	% SDC Eligible	SDC Fund	Reserve Fund
1	Marquam Street Culvert	60	$ 20,400	$ 31,100	11 to 20	100%	$ 31,100	$ -
2	36-inch Pipe by 48-inch pipe S. of Marquam St	850	$ 180,200	$ 274,950	11 to 20	100%	$ 274,950	$ -
3	36-inch Pipe by 48-inch pipe, Marquam St to RR	350	$ 74,800	$ 114,130	1 to 10	100%	$ 114,130	$ -
4	36-inch pipe, John St to Middle School	1,300	$ 380,800	$ 581,000	1 to 10	100%	$ 581,000	$ -
5	48-inch pipe, Academy St and Wilco Highway	2,100	$ 578,000	$ 881,900	1 to 10	100%	$ 881,900	$ -
	Total	**2,560**	**$1,234,200**	**$ 1,883,080**			**$ 1,883,080**	



	Actual				Budgeted	7%	5% Future	5%
	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19
Revenues	473,026	485,313	488,568	478,650	493,050	527,113	552,805	579,782
Expenditures & Transfers Out	456,309	583,513	458,011	449,296	508,610	632,816	540,540	557,700
Fund Balance	193,373	95,175	125,729	155,083	139,523	33,819	46,084	68,165
Contingency	48,645	55,832	61,899	61,553	65,583	72,169	74,573	77,217
						110k	0	0
						25k	25k	25k

Xfr to Reserve
UTI + Admin

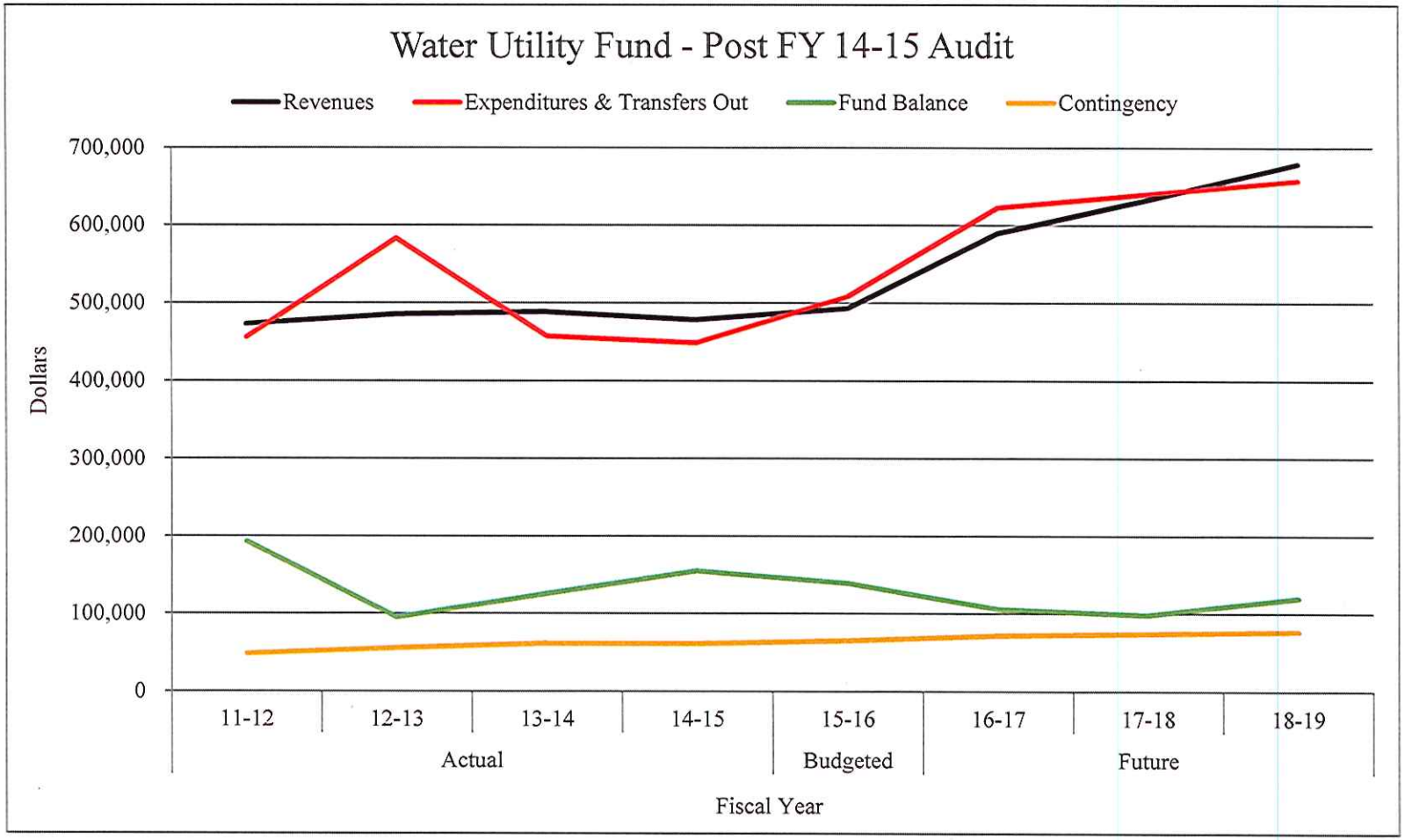
Scenario #1 W



	Actual				Budgeted	10% Future	5% Future	5% Future
	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19
Revenues	473,026	485,313	488,568	478,650	493,050	541,513	567,925	595,658
Expenditures & Transfers Out	456,309	583,513	458,011	449,296	508,610	632,816	540,540	557,700
Fund Balance	193,373	95,175	125,729	155,083	139,523	48,219	75,604	113,561
Contingency	48,645	55,832	61,899	61,553	65,583	72,169	74,573	77,217
						110k	0	0
						25k	25k	25k

Xfr to Reserve
UT I + Admin

Scenario #2W

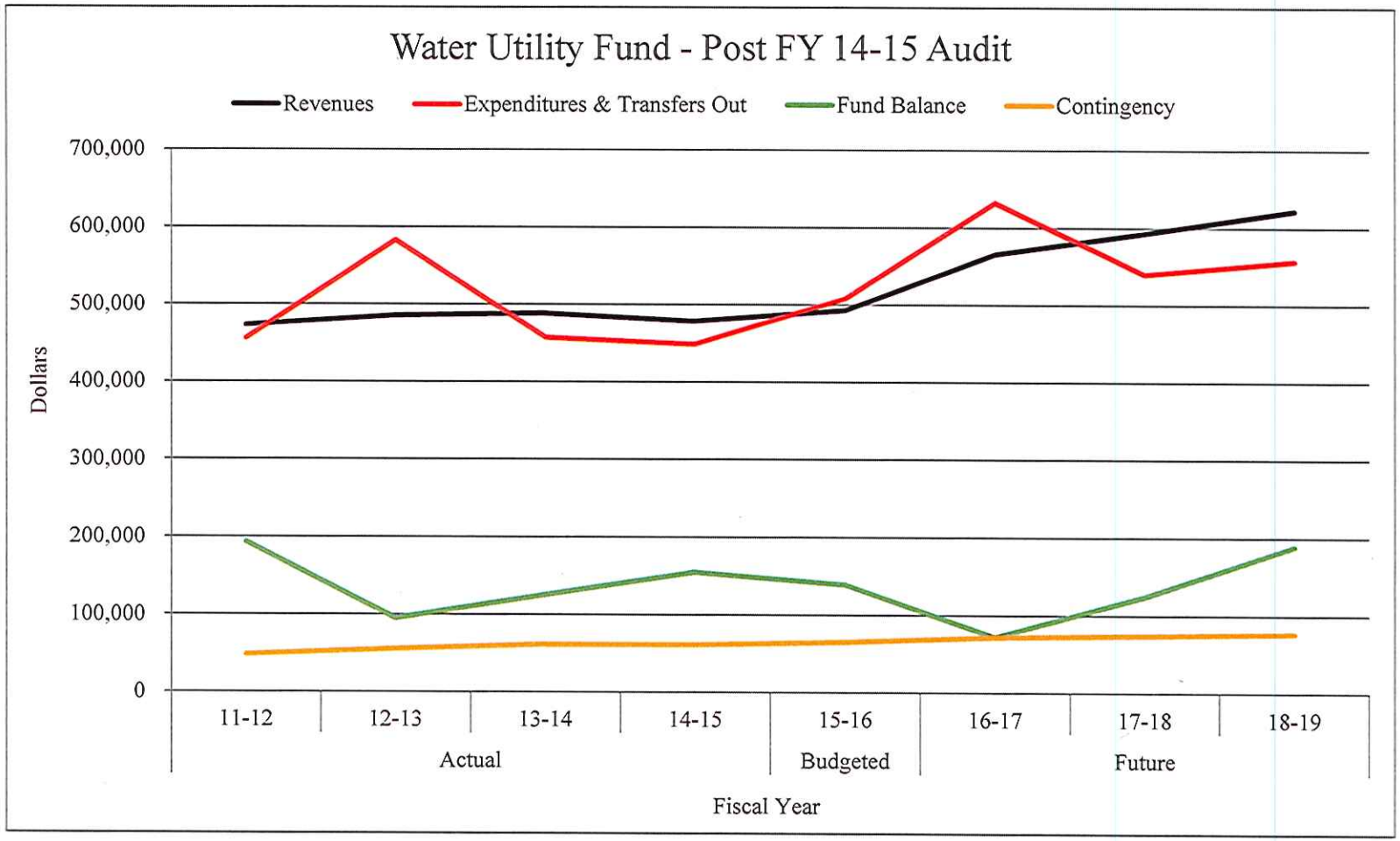


20% 7.5% 7.5%

	Actual				Budgeted	Future		
	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19
Revenues	473,026	485,313	488,568	478,650	493,050	589,513	632,725	679,178
Expenditures & Transfers Out	456,309	583,513	458,011	449,296	508,610	622,816	640,540	657,700
Fund Balance	193,373	95,175	125,729	155,083	139,523	106,219	98,404	119,881
Contingency	48,645	55,832	61,899	61,553	65,583	72,169	74,573	77,217

100K 100K 100K Xfr to Reserve
25K 25K 25K UTI + Admin

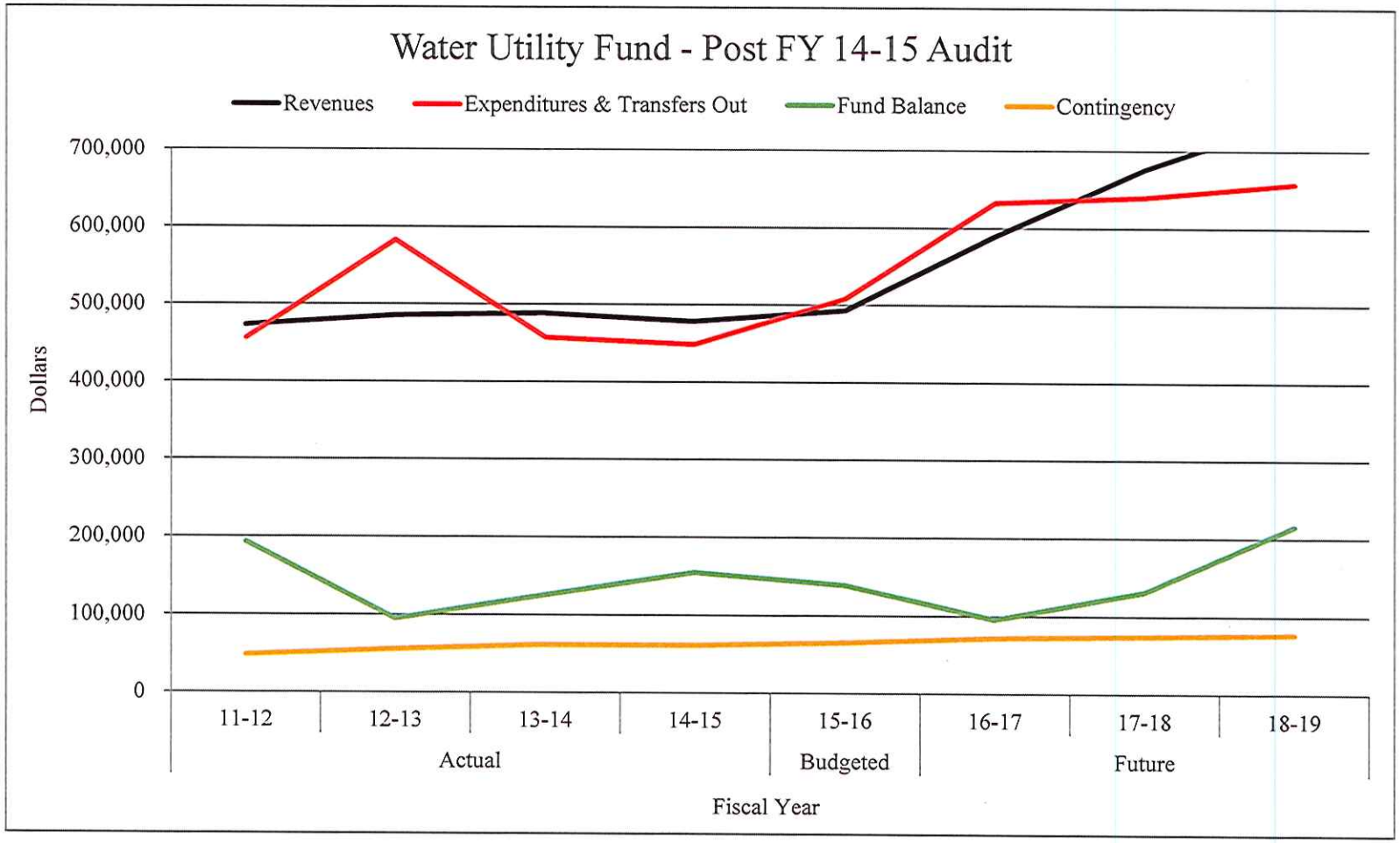
Scenario #3W



	Actual				Budgeted	15%	5% Future	5%
	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19
Revenues	473,026	485,313	488,568	478,650	493,050	565,513	593,125	622,118
Expenditures & Transfers Out	456,309	583,513	458,011	449,296	508,610	632,816	540,540	557,700
Fund Balance	193,373	95,175	125,729	155,083	139,523	72,219	124,804	189,221
Contingency	48,645	55,832	61,899	61,553	65,583	72,169	74,573	77,217

Scenario #4W

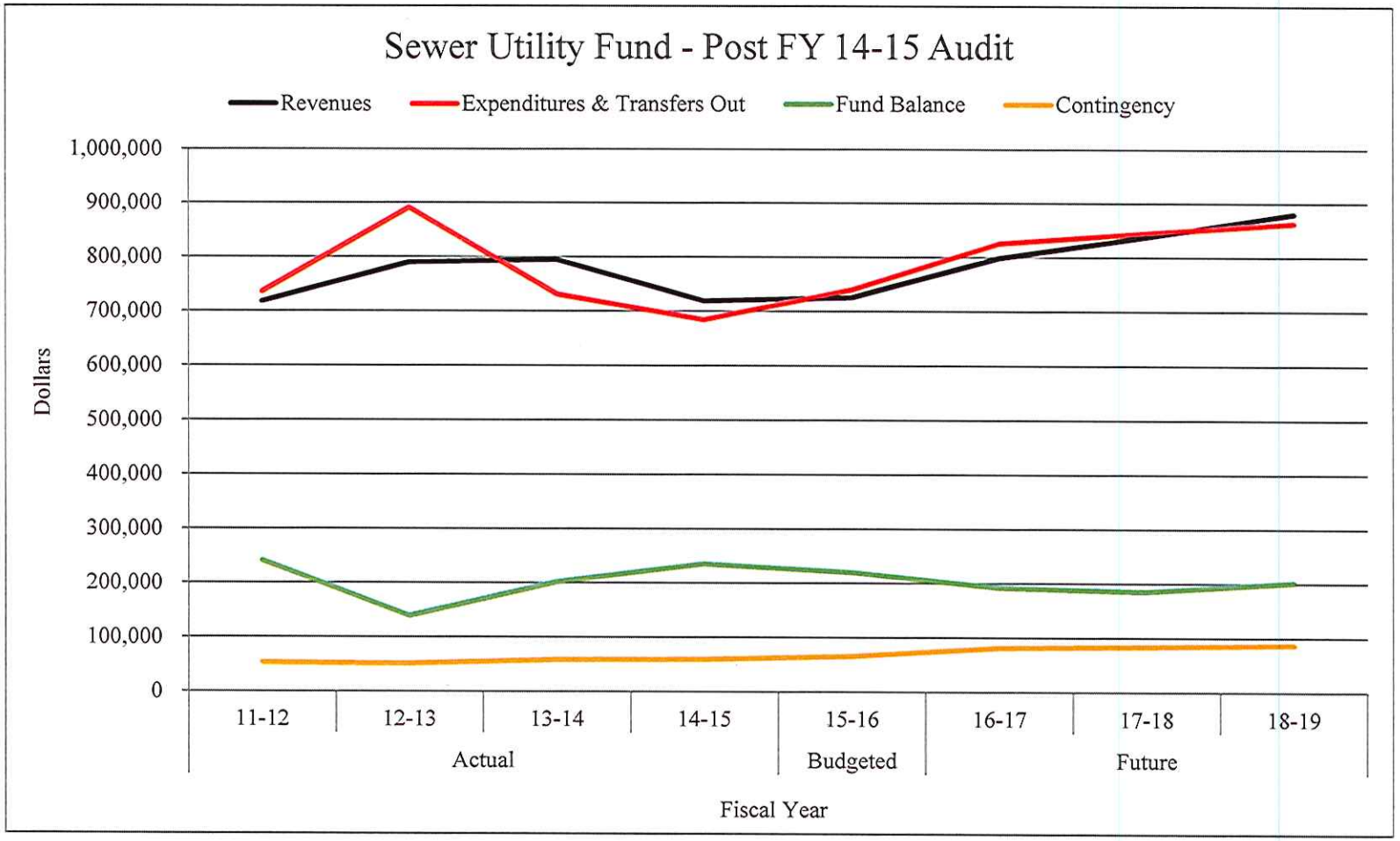
110K 0 0 Xfr to Reserve
25K 25K 25K UTI + Admin



	Actual				Budgeted	20% Future	15% Future	10% Future
	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19
Revenues	473,026	485,313	488,568	478,650	493,050	589,513	675,925	742,178
Expenditures & Transfers Out	456,309	583,513	458,011	449,296	508,610	632,816	640,540	657,700
Fund Balance	193,373	95,175	125,729	155,083	139,523	96,219	131,604	216,081
Contingency	48,645	55,832	61,899	61,553	65,583	72,169	74,573	77,217

Scenario #5W

110K 100K 100K Xfr to Rsv
25K 25K 25K OTI + Admin

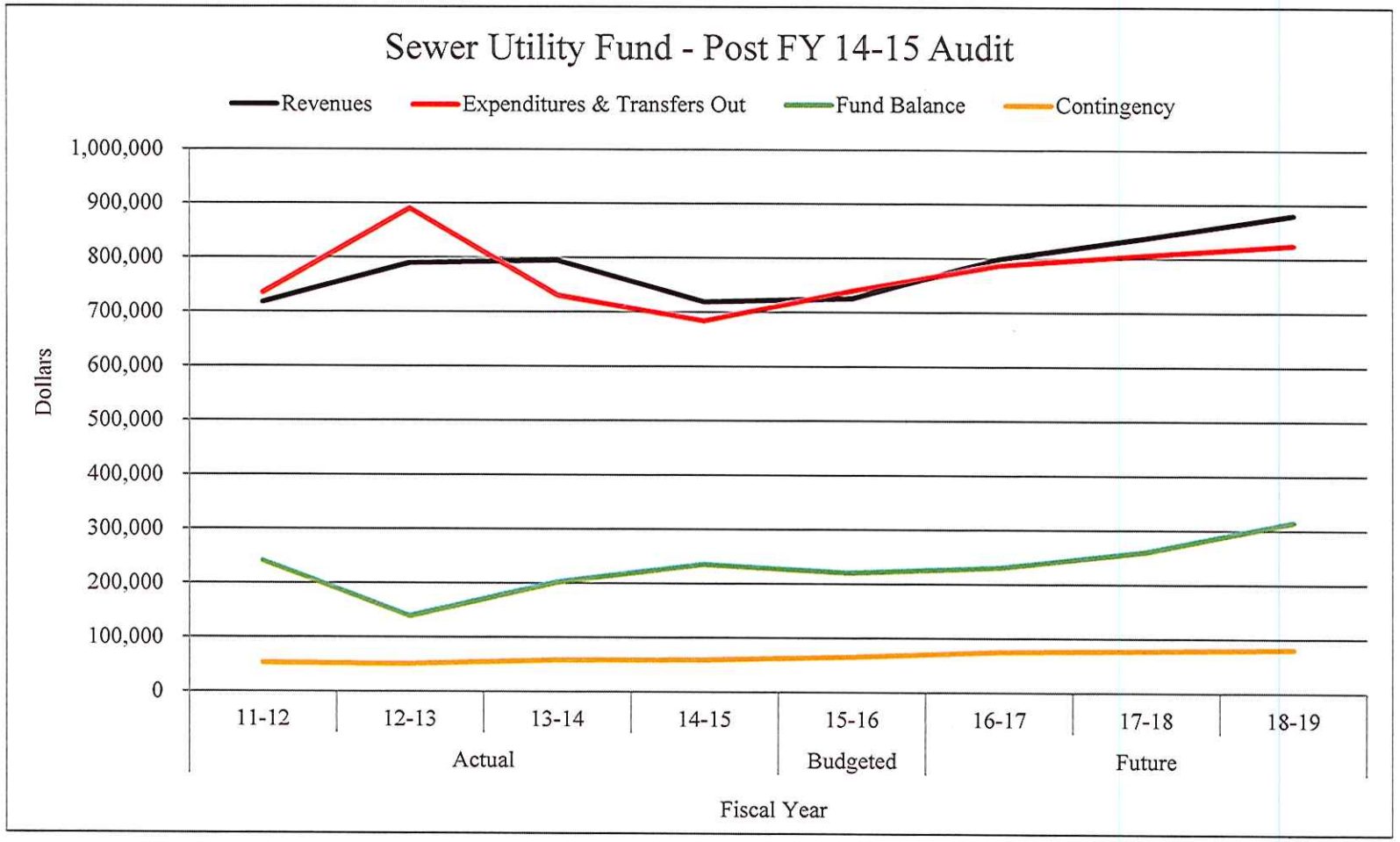


10% 5% 5%

	Actual				Budgeted	Future		
	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19
Revenues	717,904	789,716	794,866	719,089	726,000	798,500	838,375	880,244
Expenditures & Transfers Out	736,609	891,929	732,310	685,433	740,807	826,271	845,609	863,889
Fund Balance	241,946	139,734	202,292	235,947	220,878	193,106	185,873	202,228
Contingency	54,224	51,967	59,417	60,074	66,435	82,462	85,051	88,115

175K 175K 175K Xfr to Reserve
72K 72K 72K WW Op+Admin

Scenario #1S



	Actual				Budgeted	10%	5% Future	5%
	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19
Revenues	717,904	789,716	794,866	719,089	726,000	798,500	838,375	880,244
Expenditures & Transfers Out	736,609	891,929	732,310	685,433	740,807	788,521	807,859	826,139
Fund Balance	241,946	139,734	202,292	235,947	220,878	230,856	261,373	315,478
Contingency	54,224	51,967	59,417	60,074	66,435	76,170	78,760	81,823

Scenario #25

175K 175K 175K Xfr to Rsve
24K 24K 24K UTI + Admin

Stormwater and Street Fees

ITF Report - Attachment C

		Stormwater				Streets		
	City	Other	Single Family	Multi-Family	Commercial-Industrial	Single Family	Multi-Family	Commercial-Industrial
1	Salem	$10-$12 per account	Approximately $5-$6 per EDU (1 EDU = $3,000 sq. ft., based on Impervious Surface per Property)			Street Light $2.80/mo.	Street Light 1-4 Units $2.80/mo. 5-25 Units $10.40/mo. 26+ $18/mo.	Street Light Small $2.80/mo. Reg. $13.50/mo.
2	Molalla		$2.00/mo. Per Unit			N/A	N/A	N/A
3	Dallas	Motel 1.86/mo	$2.75/mo.	1.86/mo. Per Unit	4.5% of Sewer Charge	N/A	N/A	N/A
4	Lebanon	Eligible Senior and Disabled Citizens will be entitled to a 10% discount for residential service	$3.18/mo	1/4 Acre or less $11.53/mo. 1/4-1/2 Acre $28.83/mo. 1/2 Acre and Over $63.42/mo. Undeveloped 1/4 Acre or Less $3.46/mo. Undeveloped1/4-1/2 Acre $4.61/mo. Undeveloped 1/2 Acre and Over $5.76/mo.		N/A	N/A	N/A
5	Philomath		$1.50/Mo. Customer			$2.00 Per Account		
6	Sweet Home	Base Charge: Drain in Right of Way $0.80 per EDU Commodity Charge: impervious surface into public infrastructure $0.80 per EDU Outside City Limits 1.5 X	Unit = to 1 EDU	1 EDU = 3,200 sq. ft. of Impervious Surface Minimum allowed = 1 EDU EDU Calculated in Increments of 100		N/A	N/A	N/A
7	Stayton		$4.50/mo.	Per Unit: Mobile Home in Park $2.40 Assisted living $4.50 Apt. $2.70	Based on lot size	$2.00/mo.	Per Unit: Mobile Homes in Park $1.04 Assisted Living $0.50 Apt. $2.70	Based on lot size
8	Silverton		$3.00/mo	$3.00 per 2,400 sq. ft. of Imprevious Surface		$5.00/mo. Per Unit		
9	Estacada		$6.15/mo	$6.15 per 2,500 sq. ft. of Imprevious Surface		N/A	N/A	N/A
10	Newberg		$7.96 per Unit	$7.96 per EDU.		N/A	N/A	N/A
11	Canby	Combined with Sewer rates. Not separated out.				$5.00/mo.	$5.00/mo. Per Unit (Nursing Home per 2 beds)	
12	Oregon City		$12.26/mo.	$8.61/mo	$0.21 X Gross Floor Area	$9.35/mo.	$9.35/mo. Per Unit	Based on Property Sq. Ft. Engineer Calculates

County Systems in City Limits

	Project Description	Existing Stormwater Conveyance	Existing Street Surface Condition	Length (ft)	Current Estimate
1	N. Pershing St. North of 880 N. Pershing to North City Limits	None	Gravel	1,970	$ 985,000
2	W. Marquam St. from Western City Boundary to R.R. Ave.	Hard Line	Paved	4,400	$ 2,200,000
3	E. Marquam St. from N. Main St. HWY 214 to East City Limits	Hard Line	Paved	3,410	$ 1,705,000
4	Academy Street from S. Wilco Hwy 214 to Leo (Jurisdiction in Dispute)	Partial Ditch	Gravel	1,300	$ 650,000
5	Academy Street from Leo to Gilles	Ditch	Gravel	630	$ 315,000
6	Academy Street from Bucheit to Humpert Ln.	Hard Line	Paved	1,050	$ 525,000
			Total	**12,760**	**$ 6,380,000**