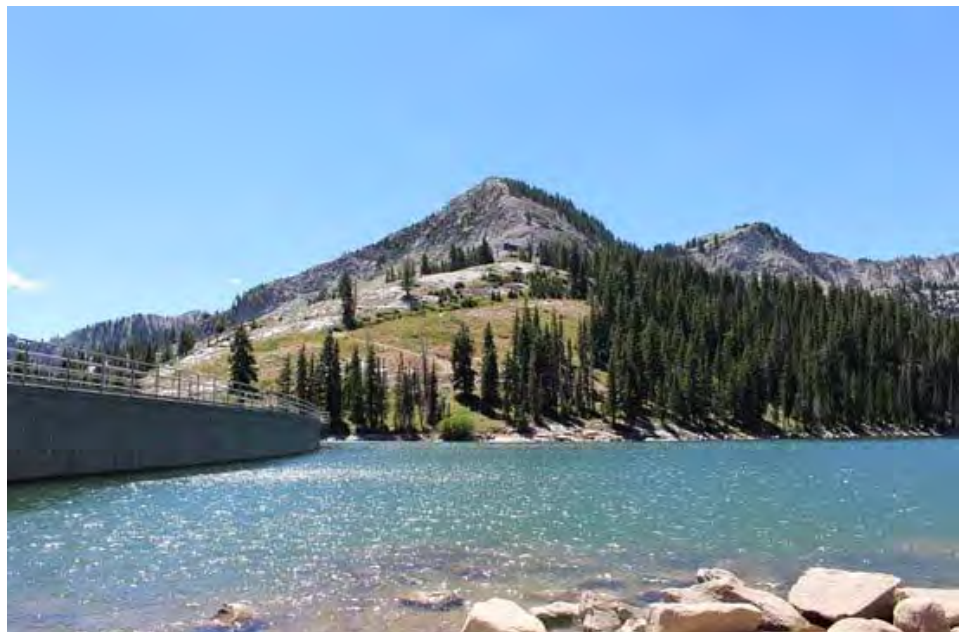


# PUBLIC UTILITIES ANNUAL 2019-20 FISCAL BUDGET PROPOSAL



Public  
Utilities



April 3,  
2019

**WATER. — SEWER — STORMWATER — STREET LIGHTING**  
**ENTERPRISE FUNDS**

*"SERVING OUR COMMUNITY, PROTECTING OUR ENVIRONMENT"*



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**SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES  
RECOMMENDED BUDGET FOR FISCAL YEAR 2020**

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**Salt Lake City Department of Public Utilities**

*I recommend for approval, rates, operations, personnel changes and the capital program as herein presented as the Salt Lake City Department of Public Utilities FY2020 Proposed Budget:*

**Laura Briefer, Director** \_\_\_\_\_

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**Public Utilities Advisory Committee (PUAC)**

*The PUAC concurs with and supports the Salt Lake City Department of Public Utilities FY2020 Proposed Budget presentation:*

**Ted Wilson, Chair** \_\_\_\_\_

A handwritten signature in blue ink, appearing to be "Ted Wilson", written over a horizontal line.

Dated March 28, 2019



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## **Executive Summary FY 2020**

Salt Lake City Department of Public Utilities (Department) is pleased to present its recommended budget for fiscal year 2019-2020 (FY2020). In addition to ongoing operations, the budget as presented includes funding for capital projects in the Water, Sewer, Stormwater, and Street Lighting Utilities to upgrade infrastructure, comply with regulations, and support growth.

As in previous years, a major focus of the Department’s budget is in the rehabilitation and replacement of aging infrastructure. The Department has implemented a rigorous capital asset program that assesses the condition and criticality of water infrastructure. This proactive approach mitigates the risk of future failures of water, sewer, and stormwater infrastructure. Infrastructure failure and degradation can lead to public health, water supply, and environmental impacts. The largest planned projects are components of the new Water Reclamation Facility (WRF) that will be completed by 2024, improvements to the Big Cottonwood Water Treatment Plant, construction of a new water transmission line to serve downtown Salt Lake City, conceptual design for a new Public Utilities campus, and Water, Sewer, and Stormwater Utility infrastructure work necessitated by street improvements projects pursuant to the City’s passage of a general obligation bond for that purpose.

Funding for capital projects in FY2020 will be generated through the issuance of revenue bonds and rate increases. Total bonding planned for FY2020 is \$105,084,000. Proposed rate increases are 5% in the Water Utility, 18% in the Sewer Utility, and 10% in the Stormwater Utility. Street Lighting rates will remain the same. For future years, the Department is investigating the use of a federal low interest loan program for utility infrastructure as an additional funding source.

**Summary of Utilities Fund Budgets**

<b>Utility Funds FY 2020</b>	<b>Operations</b>	<b>Capital</b>	<b>Debt</b>	<b>Fund Totals</b>
Water	66,275,770	61,764,547	1,781,000	129,821,317
Sewer	21,024,164	107,064,500	13,456,000	141,544,664
Storm	7,172,368	13,472,149	1,306,000	21,950,517
Street	2,963,277	1,725,000	103,000	4,791,277
<b>Total</b>	<b>\$ 97,435,579</b>	<b>\$ 184,026,196</b>	<b>\$ 16,646,000</b>	<b>\$ 298,107,775</b>

The proposed budget includes the implementation of the structural rate changes to water and sewer rates pursuant to the Department’s 2018 Comprehensive Water, Sewer and Stormwater Rate Study, and as presented to the Mayor and City Council. A proposed resolution adopting these structural changes is presented in Appendix A. As part of environmental regulatory requirements, the Utah Department of Environmental Quality is also requiring a City resolution approving the new WRF, which is also included in Appendix A.

The proposed budget includes the addition of 17 new full time equivalent (FTE) positions. These recommended positions are identified to assist the Department in meeting environmental requirements, implementing capital projects, and responding to economic and geographic growth within our service areas. The Department is also proposing two minor organizational structure changes to provide for succession planning and increased efficiency. Specific rationale is provided for these positions in Appendix B of this document.

As part of Mayor Biskupski’s energy and climate initiative, the Department was requested to identify projects within the FY2020 Budget that demonstrate reductions in energy use through efficiency and/or renewable energy projects. Appendix C of this document summarizes the Department’s Energy Management and Greenhouse Mitigation Projects and highlights several capital projects in each of the Department’s four utilities that demonstrate energy and greenhouse gas reductions.

## **Budget Summary**

The total proposed Department budget is \$298,107,775, a 2.00% increase from the FY2019 amended budget of \$292,268,301. The adopted budget was adjusted for FY2018 carryover encumbrances for open contracts and purchase orders. Those changes are reflected in the amended budget amount. The proposed operating budget of \$97,435,579 is \$2,054,167 or 2.15% higher than the current year. The increase includes the proposed new FTEs, a 3% cost of living adjustment (COLA) and a 7% increase in health insurance premiums. This also reflects a 3% rate increase for water purchased from the Metropolitan Water District of Salt Lake and Sandy (MWDSLs).

The proposed capital budget for FY2020 is \$184,026,196. Debt service is anticipated to be \$16,646,000, including the cost of issuing new debt during the year. Total debt service for FY2020 is increasing due to the cost of issuing new debt and the payment of the initial installment due on a state loan.

**Proposed Department of Public Utilities Expenditures for FY 2019-20**

<b>Major Expenditure Categories</b>	<b>Adopted Budget 2018-2019</b>	<b>Amended Budget 2018-2019</b>	<b>Proposed Budget 2019-2020</b>	<b>Difference</b>	<b>Percent Change</b>
Personal Services	35,516,006	35,516,006	38,021,063	2,505,057	7.05%
Materials and Supplies	6,346,750	6,362,247	6,733,060	370,813	5.83%
Charges for Services	49,321,529	53,503,159	52,681,456	(821,703)	-1.54%
Debt Service	8,317,000	8,317,000	16,646,000	8,329,000	100.14%
Capital Outlay	11,076,468	11,144,372	11,931,596	787,224	7.06%
Capital Improvements	123,721,000	177,425,517	172,094,600	(5,330,917)	-3.00%
<b>Total</b>	<b>\$ 234,298,753</b>	<b>\$ 292,268,301</b>	<b>\$ 298,107,775</b>	<b>\$ 5,839,474</b>	<b>2.00%</b>



The proposed budget includes projects rated as high priority in the Department’s Capital Asset Program (CAP). The major capital improvement projects categories in the FY2020 budget are included in each Utility’s budget description in the following sections. A detailed list of capital improvement projects is included in the cash flow summaries for each utility.

The Department’s total anticipated revenues for FY2020 are \$249,137,157, an increase of \$109,630,160. Proposed rate increases are expected to generate \$10,138,168 and the issuance of \$105,084,000 in bonds account for the remaining increase. The Department intends to balance the budget utilizing \$48,970,618 of reserves in all Utility funds. The reserves include the remaining balance of approximately \$30 million from the 2017 bond issue.

**Projected Department of Public Utilities Revenues for FY 2019-20**

Revenue	Adopted Budget 2018-2019	Amended Budget 2018-2019	Proposed Budget 2019-2020	Difference	Percent Change
Operating Sales	123,992,012	123,992,012	134,130,180	10,138,168	8.18%
Interest	1,512,000	1,512,000	883,820	(628,180)	-41.55%
Permits	70,000	70,000	70,000	-	0.00%
Interfund Charges	2,449,985	2,449,985	2,475,157	25,172	1.03%
Other Revenues	833,000	833,000	833,000	-	0.00%
Impact Fees	1,400,000	1,400,000	1,900,000	500,000	35.71%
Contributions	3,895,000	3,895,000	3,761,000	(134,000)	-3.44%
Bond Proceeds	5,355,000	5,355,000	105,084,000	99,729,000	1862.35%
From (To) Reserves	94,791,756	152,761,304	48,970,618	(103,790,686)	-67.94%
<b>Total</b>	<b>\$ 234,298,753</b>	<b>\$ 292,268,301</b>	<b>\$ 298,107,775</b>	<b>\$ 5,839,474</b>	<b>2.00%</b>

Department revenues are generally predictable for all funds except water which is based on changes in seasonal use due to weather during the summer. A cooler, wetter summer and spring will reduce water demand and sales. The Department’s water conservation rate structure and conservation education have and continue to be effective as customer’s sensitivity to water usage has been proactive. The current water availability and storage reservoirs will have adequate coverage FY 2020, therefore water revenues are forecast on a normal or average expected usage.

## Summary of Additional Proposed Positions

The Department currently has 422.50 FTEs and is proposing the following positions to meet identified needs. The Department is proposing adding 17 FTEs as shown in the following chart. A detailed description of these positions is provided in Appendix B.

### Proposed Personnel Adjustments FY 2019- 2020

<b>Administration</b>	<b>Water</b>	<b>Sewer</b>	<b>Stormwater</b>	<b>Street Lighting</b>	<b>Total</b>
Engineering Technician I	-	-	-	1.00	1.00
Records Technician	0.80	0.10	0.10	-	1.00
Engineer II	0.50	0.25	0.25	-	1.00
Community & Engagement Coordinator	0.50	0.40	0.10	-	1.00
Sustainability Program Manager	1.00	-	-	-	1.00
					<b>5.00</b>
<b>Water Reclamation Facility</b>					
Pretreatment Inspector/Permit Writer		1.00			1.00
Pretreatment Senior Sampler/Inspector		1.00			1.00
FOG/Sewer Rate Program Supervisor		1.00			1.00
Office Technician II		1.00			1.00
					<b>4.00</b>
<b>Maintenance</b>					
Senior Water System Maintenance Worker	1.00				1.00
					<b>1.00</b>
<b>GIS</b>					
GIS Leak Detector II	0.50	0.30	0.20		1.00
					<b>1.00</b>
<b>Engineering</b>					
Engineering Technician II	1.00	0.50	0.50		2.00
Engineering Technician III	0.50	0.25	0.25		1.00
Engineer III	1.00	0.50	0.50		2.00
					<b>5.00</b>
<b>Seasonal Positions</b>					
Watershed Worker (2)	1.00				1.00
					<b>1.00</b>
<b>Total New FTEs</b>	<b>7.80</b>	<b>6.30</b>	<b>1.90</b>	<b>1.00</b>	<b>17.00</b>

## **Water Utility Enterprise Fund**

### **Water Infrastructure Background**

The Salt Lake City water system is one of the oldest and largest systems west of the Mississippi River with over 1,125 miles of 12” or smaller distribution lines, and more than 180 miles of large transmission mains for a total asset inventory of 1,305 miles of pipe with over fifty pressure zones. The service area covers the Salt Lake City corporate boundaries as well as the east side of the Salt Lake Valley to the mouth of Little Cottonwood Canyon—a total of 134 square miles. This includes water supply to the newly incorporated Mill Creek City, as well as Cottonwood Heights, Holladay, and small portions of Murray, Midvale, and South Salt Lake Cities. The Department’s asset management program includes personnel and systems to assess the condition of the large water transmission mains, treatment and pumping plants, and other infrastructure to assure repair and replacement is completed with minimal impact to the public. Each of the Department’s three water treatment plants were originally constructed in the 1950’s and have undergone numerous upgrades. There is also a continual need to repair and replace pipe segments to maintain service and reduce emergency repair costs and impacts to the public.

## Water Utility Budget Highlights for FY2020

### Anticipated Revenues

A proposed 5% rate increase is anticipated to generate an additional \$2,442,107. Proposed rates for FY2020 are impacted by two elements: 1) implementation of a rate structure and cost of service study that was finalized in October 2018 and 2) the proposed rate increase. The additional revenue is required for the water utility to meet its capital and operations objectives.

The Department plans to issue bonds during FY2020 with \$35,196,000 designated for water. Additional bonding of \$112,627,000 is anticipated from FY 2021 to FY2024 meet water utility capital project objectives.

The revenue budget is proposed to increase by \$7,026,186 or 5.72% from the FY2019 budget. The proposed budget for FY2020 by major category is as follows:

**Projected Water Revenues for FY 2019-20**

Revenue	Adopted Budget 2018-2019	Amended Budget 2018-2019	Proposed Budget 2019-2020	Difference	Percent Change
Operating Sales	73,289,346	73,289,346	75,731,453	2,442,107	3.33%
Interest	375,000	375,000	229,000	(146,000)	-38.93%
Interfund Charges	2,449,985	2,449,985	2,475,157	25,172	1.03%
Other Revenues	638,000	638,000	638,000	-	0.00%
Impact Fees	500,000	500,000	1,000,000	500,000	100.00%
Contributions	1,205,000	1,205,000	1,205,000	-	0.00%
Bond Proceeds	-	-	35,196,000	35,196,000	
From (To) Reserves	25,735,446	44,337,800	13,346,707	(30,991,093)	-69.90%
<b>Total</b>	<b>\$ 104,192,777</b>	<b>\$ 122,795,131</b>	<b>\$ 129,821,317</b>	<b>\$ 7,026,186</b>	<b>5.72%</b>

Operating Sales: The implementation of the new rate structure combined with the 5% proposed rate increase is estimated to generate \$2,442,107 or 3.33% more than the FY2019 budgeted amount. The implementation of both has no impact on the monthly billing for residential usage of 21 CCF

Interest Income: Interest earnings are expected to decrease as reserve funds are invested in capital improvements.

Interfund Charges: The Water Utility is reimbursed by Sewer, Stormwater, Street Lighting, Refuse, and the Hive program for services related to billing. Related revenue is not expected to change significantly.

Impact Fees: Impact fees are budgeted to increase \$500,000 for new development. The FY2020 budget is a conservative estimate based on the historical average.

Bond Proceeds: A bond issue of \$35,196,000 million is anticipated.

Reserve Funds: The Department plans to use \$13,346,707 of reserve funds to balance the capital and operational needs. Budgeted use of reserve funds is <\$30,991,093> less than the FY2019 amended budget or a decrease of <69.90%>.

**Proposed Expenditures**

The Water Utility’s FY2020 budget includes a decrease of <\$1,182,293> in other professional and technical services which is off-set by a \$1,317,556 increase in personal services. The increase in personal services is attributed to the addition of 7.80 FTEs, a 3% COLA for employees, and a 7% increase in health insurance costs. The new FTEs requested will support the Department’s water quality, engineering, water operations, and administration service offerings to benefit residents of the Water Utility’s water service area.

The Department expects a \$479,845 or 3% increase in the price of water from Metropolitan District of Salt Lake and Sandy for FY2020.

The Department plans to invest \$59,255,100 in capital improvements for Water Utility infrastructure in FY2020. The capital improvement program includes a prioritized balance of needed improvements to treatment plants, water lines, meter replacements, pump stations, wells, and other infrastructure.

The schedule for some water main replacements has been accelerated to perform work in conjunction with the General Fund bonded street repair projects. The FY 2020 capital improvements budget includes \$9,650,000 for these replacements. Future years anticipate an additional \$17,890,000 in projects related to the proposed street related projects that are part of the 2018 general obligation bond for streets. The water main budget also includes the \$10,000,000 for the East West Conveyance Line.

The expenditure budget for the Water Utility is proposed to increase \$7,026,186 or 5.72% from the FY2019 budget. The proposed budget for FY2020 by major category is as follows:

**Proposed Water Expenditures for FY 2019-20**

Major Expenditure Categories	Adopted Budget 2018-2019	Amended Budget 2018-2019	Proposed Budget 2019-2020	Difference	Percent Change
Personal Services	22,069,746	22,069,746	23,387,302	1,317,556	5.97%
Materials and Supplies	4,218,280	4,233,777	4,415,380	181,603	4.29%
Charges for Services	36,600,851	39,051,011	38,473,088	(577,923)	-1.48%
Debt Service	1,117,000	1,117,000	1,781,000	664,000	59.44%
Capital Outlay	4,614,400	4,682,304	2,509,447	(2,172,857)	-46.41%
Capital Improvements	35,572,500	51,641,293	59,255,100	7,613,807	14.74%
<b>Total</b>	<b>\$ 104,192,777</b>	<b>\$ 122,795,131</b>	<b>\$ 129,821,317</b>	<b>\$ 7,026,186</b>	<b>5.72%</b>

Personal Services: Employee related costs are estimated to increase \$1,317,556 or 5.97%. The water utility budget anticipates an increase of 7.80 FTEs. The FY2020 budget includes a 3% COLA and a 7% increase in costs of health insurance.

Materials & Supplies: The increase of \$181,603 is driven by a \$110,000 increase in sand and gravel as well as increases in grounds and building supplies and computer supplies. Small tools and equipment decreased from last year.

Charges for Services: The proposed budget for charges and services will decrease <\$577,923> or <1.63%>. The decrease can be attributed to a <\$1,182,293>decrease in outsourced technical services and a <\$111,000> decrease in payment in lieu of taxes that are offset by the price increase for water purchases from Metropolitan Water District.

Debt Service: - In compliance with the Series 2017 Refunding Bond, and in anticipation of a Series 2020—3.9%, 30 Year—Bond, the budget for debt service increased by \$664,000.

Capital Outlay: The proposed budget for capital outlay for FY2020 includes \$1,500,000 for watershed purchases, \$30,000 for water rights, \$494,265 for 14 vehicles, \$175,182 for field equipment, \$50,000 for pumping equipment, \$60,000 for treatment plant equipment, \$50,000 for telemetry, \$30,000 for office furniture & equipment, and \$120,000 for other non-motive equipment.

Capital Improvements: The Water proposed CIP budget for FY2020 is \$59,255,100. A detailed list of CIP projects is included in the cash flow summaries for the Water Utility. A capital project summary by facility type is as follows:

**Proposed Water Capital Improvement Program  
for FY 2019-20**

Type of Project	Proposed Budget 2019-2020
Treatment Plants	7,850,000
Water Service Connections	5,900,000
Pumping Plant Upgrades	1,565,000
Reservoirs	3,435,000
Water Mains and Hydrants	35,530,100
Wells	3,400,000
Culverts, Flumes, and Bridges	1,455,000
Watershed	120,000
<b>Total 2019-2020 CIP</b>	<b>\$ 59,255,100</b>

## **Sewer Utility Enterprise Fund**

### **Sewer Infrastructure Background**

The City's Water Reclamation Facility (WRF) was constructed in 1965 and has undergone numerous upgrades since. Nutrient removal regulations adopted by the Utah Department of Environmental Quality (UDEQ) in 2015 require a new sewage treatment process. After much study, the Department determined that the WRF has reached the end of its useful life and adapting the 54 year old facility to meet the new nutrient removal requirements is not feasible. A new WRF is currently under design, to be completed by 2024 in order to meet UDEQ's nutrient compliance date of January 1, 2025. The Department has been implementing gradual rate increases and revenue bonding for the replacement of the WRF.

The sewer collection system (654 miles of pipeline, and several pump stations in 2018) is a very challenging environment; hydrogen sulfide gases, sediment, roots and other factors affect the competency of the collection lines. The Department's asset management program includes personnel and systems to assess the condition of the large water transmission mains, treatment and pumping plants, and other infrastructure to assure repair and replacement is completed with minimal impact to the public. More than 50% of the sewer collection system is greater than 85 years old.

The Department is expanding portions of the sewer collection system, in large part to meet growth requirements related to the new State Correctional Facility, the Airport expansion, and new development anticipated in the Northwest Quadrant of Salt Lake City.

## Sewer Utility Budget Highlights for FY2020

Total project costs for the WRF reconstruction are anticipated to be \$528,130,000 when the project is completed. Construction will begin in FY2020. Public Utilities has expended approximately \$6 million over the last several years in preparation for this project.

Current financing for the new WRF is anticipated to be accomplished using a combination of revenue bonds and user rates. The Department plans to submit a letter of interest in spring 2019 for consideration to apply for federal loans pursuant to the Water Infrastructure Finance and Innovation Act (WIFIA). If invited to apply, the program loan would provide up to 49% of the cost of the new WRF. The interest rate is locked in at loan closing and repayment schedules can be structured to complement revenue bond debt payments. If a loan is not approved, the project costs will be funded through revenue bonds. The two scenarios are as follows:

Scenario 1: Sewer Planned Debt				Scenario 2: Sewer Planned Debt	
FY	WIFIA	Bonds	Total	FY	Bonds
2019-2020	-	55,000,000	55,000,000	2019-2020	55,000,000
2020-2021	67,429,000	51,450,000	118,879,000	2020-2021	107,000,000
2021-2022	85,926,000	59,180,000	145,106,000	2021-2022	187,000,000
2022-2023	65,057,000	62,230,000	127,287,000	2022-2023	138,000,000
2023-2024	31,865,000	27,440,000	59,305,000	2023-2024	69,000,000
<b>Total</b>	<b>\$ 250,277,000</b>	<b>\$ 255,300,000</b>	<b>\$ 505,577,000</b>	<b>Total</b>	<b>\$ 556,000,000</b>

## Anticipated Revenues

A proposed 18% rate increase is anticipated to generate an additional \$6,782,334 in sewer fees. Proposed rates for FY2020 are impacted by two elements: 1) implementation of a rate and cost of service study that was finalized in October 2018; and 2) the proposed rate increase. The additional revenue is required for the Sewer Utility to meet its capital and operations objectives. Rate increases in future years are also anticipated at this time. The rate increases are anticipated to vary based on the source of debt.

Forecast Rate Increases				
FY	WIFIA/Bonds	Bonds	Difference	
2019-2020	18%	18%	0%	
2020-2021	18%	20%	-2%	
2021-2022	18%	25%	-7%	
2022-2023	15%	25%	-10%	
2023-2024	10%	10%	0%	
<b>Average</b>	<b>16%</b>	<b>20%</b>	<b>-4%</b>	



The Department plans to issue bonds during FY2020 with \$55,307,000 designated for the Sewer Utility. Additional debt of \$471,287,000 is anticipated from FY2021 to FY2024 to meet Sewer Utility capital objectives, primarily the reconstruction of the WRF. Debt will be used in conjunction with rate increases to blend pay as you go and borrowing strategies. The proposed debt is for a 30 year term creating intergenerational equity payback on the new WRF facility. The process will engage the City’s professional advisors to measure debt service and ratios to comply with external rating agency standards. The Department intends to maintain its AAA rating to limit costs of borrowing.

The total revenue budget is expected to decrease by <\$6,540,494> or <4.42%> to \$141,544,664 from the FY2019 amended budget. A reduction in the budgeted use of reserve funds is driving the decrease. The proposed budget for FY2020 by major category is as follows:

**Projected Sewer Revenues for FY 2019-20**

Revenue	Adopted Budget 2018-2019	Amended Budget 2018-2019	Proposed Budget 2019-2020	Difference	Percent Change
Operating Sales	37,677,666	37,677,666	44,460,000	6,782,334	18.00%
Interest	1,052,000	1,052,000	604,000	(448,000)	-42.59%
Permits	70,000	70,000	70,000	-	
Other Revenues	185,000	185,000	185,000	-	0.00%
Bond/ Note Proceeds	4,000,000	4,000,000	55,307,000	51,307,000	1282.68%
Impact Fees	700,000	700,000	700,000	-	0.00%
Contribution	2,020,000	2,020,000	2,020,000	-	
From (To) Reserves	65,246,893	102,380,492	38,198,664	(64,181,828)	-62.69%
<b>Total</b>	<b>\$ 110,951,559</b>	<b>\$ 148,085,158</b>	<b>\$ 141,544,664</b>	<b>\$(6,540,494)</b>	<b>-4.42%</b>

Sewer service fees: Sewer service fees are expected to increase \$6,782,334 or 18%. The proposed rate increase is approximately \$5.04 per month for the representative resident (assuming winter water use of eight CCF). The increase reflects the implementation of the new rate structure and the 18% rate increase. The additional revenue is required for the sewer utility to meet its capital and operations objectives

Interest Income: Interest earnings are expected to decrease as reserve funds and remaining bond proceeds are invested in capital improvements.

Bond / Note Proceeds: A bond issue of \$55,307,000 is anticipated.

Reserve Funds: Reserve funds of \$38,198,664, including funds from the 2017 Bond issue, will balance the Sewer Utility’s capital and operational needs with FY2020 revenue. Budgeted use of reserve funds decreases <\$64,181,828> from the FY2019 budget.

**Proposed Expenditures**

The proposed sewer budget for FY2020 includes \$98,370,500 in planned projects. Of this amount \$54,700,000 is planned for the new WRF facility, \$6,380,000 for the existing plant, and \$36,630,500 for improvements to the sewer collections system. The schedule for some sewer collection line replacements has been accelerated to perform work in conjunction

with the City’s general obligation bonded street repair projects. The FY2020 capital improvements budget includes \$4,850,000 for these replacements. Future years anticipate an additional \$21,200,000 to support the general obligation of the bonded street related projects.

The Sewer Utility’s FY 2020 budget proposes a decrease of <\$6,540,494> or <4.42%> from the FY2019 amended budget. The proposed budget for FY2020 by major category is as follows:

Proposed Sewer Expenditures for FY 2019-20					
Major Expenditure Categories	Adopted Budget 2018-2019	Amended Budget 2018-2019	Proposed Budget 2019-2020	Difference	Percent Change
Personal Services	10,375,345	10,375,345	11,164,232	788,887	7.60%
Materials and Supplies	1,934,720	1,934,720	2,109,430	174,710	9.03%
Charges for Services	6,211,994	7,115,552	7,750,502	634,950	8.92%
Debt Service	6,073,000	6,073,000	13,456,000	7,383,000	121.57%
Capital Outlay	5,946,500	5,946,500	8,694,000	2,747,500	46.20%
Capital Improvements	80,410,000	116,640,041	98,370,500	(18,269,541)	-15.66%
<b>Total</b>	<b>\$ 110,951,559</b>	<b>\$ 148,085,158</b>	<b>\$ 141,544,664</b>	<b>\$ (6,540,494)</b>	<b>-4.42%</b>

Personal Services: Employee related costs are estimated to increase \$788,887 or 7.60%. The sewer utility budget anticipates an increase of 6.30 FTEs. The FY2020 budget includes a 3% COLA and a 7% increase in costs of health insurance.

Materials & Supplies: The Sewer Utility’s budget for this category increased by \$174,710. This increase is attributed to laboratory supplies, chemicals, and small tools and equipment:

Charges for Services: The budget for charges and services increased by \$634,950. The most significant items in this category are an increase in data processing services of \$113,000 and a \$293,013 increase in payment in lieu of taxes.

Debt Service: - The annual debt service budget is expected to increase by \$7,383,000 in FY2020. A payment of \$6,375,000 on a note payable is required during the year. The remaining increase is in accordance with existing debt service schedules and planned bond issues.

Capital Outlay: - The proposed capital outlay budget for FY2020 includes \$5,600,000 for land, \$1,717,500 for a vehicles and trucks, \$408,000 for field maintenance equipment, \$778,500 treatment plant equipment, \$10,000 for telemetry, \$20,000 for office furniture and equipment, and \$160,000 for other non-motive equipment.

Capital Improvements: The Sewer proposed CIP budget for FY2020 is \$98,370,500, a decrease of <\$18,269,541> from the current year amended budget. A detailed list of capital improvement projects is included in the cash flow summary for the Sewer Utility. A capital project summary by facility type is as follows:

**Proposed Sewer Capital Improvement Program for FY 2019-20**

<b>Type of Project</b>	<b>Proposed Budget 2019-2020</b>
WRF	61,080,000
Collection System	36,630,500
Lift Stations	510,000
Northwest Oil Drain	150,000
<b>Total 2019-2020 CIP</b>	<b>\$ 98,370,500</b>

## **Stormwater Utility Enterprise Fund**

### **Stormwater Infrastructure Background**

The Drainage Master Plan was completed in 1993. The FY2020 budget includes an update of the Drainage Master Plan to address water quality and climate change issues, such as storm intensification. The projects identified in the Master Plan provide direction and areas that may or have already been completed. In the last ten years 34.4 miles of storm drain pipe has been installed.

### **Stormwater Utility Budget Highlights for FY2020**

#### **Anticipated Revenues**

A proposed 10% rate increase or approximately \$0.49 per equivalent residential unit (ERU) per month is included in the budget. Dwindling cash reserves, stronger regulatory requirements and infrastructure needs are drivers for the proposed rate increase. Additional rate increases between 10% and 6% are projected through FY2023.

The Department plans to issue bonds during FY2020 with \$14,581,000 designated for stormwater utility needs. Additional bonding is planned in FY 2022.

The revenue budget is proposed to increase by \$6,228,860 or 39.62% from the FY2019 budget. The proposed revenue budget for FY2020 by major category is as follows:

**Projected Storm Revenues for FY 2019-20**

<b>Revenue</b>	<b>Adopted Budget 2018-2019</b>	<b>Amended Budget 2018-2019</b>	<b>Proposed Budget 2019-2020</b>	<b>Difference</b>	<b>Percent Change</b>
Operating Sales	8,855,000	8,855,000	9,740,500	885,500	10.00%
Interest	33,000	33,000	20,820	(12,180)	-36.91%
Other Revenues	200,000	200,000	200,000	-	0.00%
Impact Fees	650,000	650,000	516,000	(134,000)	-20.62%
Contributions	1,000	1,000	1,000	-	0.00%
Bond Proceeds	1,355,000	1,355,000	14,581,000	13,226,000	
From (To) Reserves	2,492,300	4,627,657	(3,108,803)	(7,736,460)	-167.18%
<b>Total</b>	<b>\$ 13,586,300</b>	<b>\$ 15,721,657</b>	<b>\$ 21,950,517</b>	<b>\$ 6,228,860</b>	<b>39.62%</b>

Operating Sales: A rate increase of 10% or about \$0.49 per ERU per month is estimated to generate \$885,500 more than the current budget.

Interest Income: Interest earnings are expected to decrease as reserve funds are invested in capital improvements.

Contributions by Developers: Decrease of <\$134,000> related to reimbursed cost sharing from oil companies related to Northwest Oil Drain remediation.

Bond / Note Proceeds: A bond issue of \$14,581,000 is anticipated.

Reserve Funds: Unspent bond proceeds of \$3,108,803 will be added to reserves for use on stormwater system improvements

**Proposed Expenditures**

The Stormwater Utility’s FY2020 budget proposes capitalizing \$12,744,000 to renovate portions of the stormwater collection system. The schedule for stormwater system improvements has been accelerated to perform work in conjunction with the general obligation bonded street repair projects. The FY2020 capital improvements budget includes \$3,550,000 for these. Future years anticipate an additional \$14,725,000 in the bonded street related projects. These capital items will be funded through rate increases and revenue bonds.

The expenditure budget for the Stormwater Utility is proposed to increase \$6,228,860 or 39.62% from the current year FY2019 budget. The proposed budget for fiscal year FY2020 by major category is as follows:

**Proposed Storm Expenditures for FY 2019-20**

<b>Major Expenditure Categories</b>	<b>Adopted Budget 2018-2019</b>	<b>Amended Budget 2018-2019</b>	<b>Proposed Budget 2019-2020</b>	<b>Difference</b>	<b>Percent Change</b>
Personal Services	2,872,608	2,872,608	3,187,954	315,346	10.98%
Materials and Supplies	186,450	186,450	200,950	14,500	7.78%
Charges for Services	3,854,174	4,600,262	3,783,464	(816,798)	-17.76%
Debt Service	1,024,000	1,024,000	1,306,000	282,000	27.54%
Capital Outlay	515,568	515,568	728,149	212,581	41.23%
Capital Improvements	5,133,500	6,522,769	12,744,000	6,221,231	95.38%
<b>Total</b>	<b>\$ 13,586,300</b>	<b>\$ 15,721,657</b>	<b>\$ 21,950,517</b>	<b>\$ 6,228,860</b>	<b>39.62%</b>

Personal Services: Employee related costs are estimated to increase \$315,346 or 10.98%. The stormwater utility budget anticipates an increase of 1.90 FTEs. The FY2020 budget includes a 3% COLA and a 7% increase in costs of health insurance.

Charges for Services: The decrease in this category is driven by planned reductions of <\$836,222> in professional and consulting services. This decrease is partially offset by an increase in planned data processing costs.

Debt Service: The budget increases by \$282,000 or 27.54% in anticipation of a Series 2020—3.9%, 30 Year—Bond.

Capital Outlay: The proposed capital outlay budget for FY2020 includes \$672,649 for vehicles and \$56,000 for various categories of equipment.

Capital Improvements: The Stormwater proposed capital improvement budget for FY2020 is \$12,744,000, an increase of \$6,221,231 over the FY2019 budget. A detailed list of

capital improvement projects is provided in the cash flow summary for the Stormwater Utility. The capital project summary by facility types are as follows:

**Proposed Storm Capital Improvement Program for FY 2019-20**

<b>Type of Project</b>	<b>Proposed Budget 2019-2020</b>
Lines and Riparian Corridor Projects	12,530,000
Lift Stations	64,000
Northwest Oil Drain	150,000
<b>Total 2019-2020 CIP</b>	<b>\$ 12,744,000</b>

## **Street Lighting Utility Enterprise Fund**

### **Street Lighting Infrastructure Background**

The responsibility for provision of street lighting throughout the city was transferred to the Department from the General Fund in 2013. The Department is currently updating the City's 2006 Street Lighting Master Plan in order to focus on community safety and aesthetic needs, particularly since updating lights and conversion of street lights to energy efficiency bulbs has changed the character of lighting in some neighborhoods.

Of the 15,662 lights that the City maintains, 8,398 lights or 54% are now considered to be energy efficient. We are in the seventh year of a ten-year plan to convert all the lights to high energy efficiency lamps. The FY2020 budget funds continuing conversion to high efficiency lights. Ongoing conversions are anticipated in some neighborhoods once the Street Lighting Master Plan is completed to provide better guidelines related to lighting color and intensity. The Street Lighting Utility is saving energy that has approximately \$300,000 favorable effect on the FY2020 budget and a similar effect in future years. There have been and may still be energy saving rebates available as the conversion continues.

## Street Lighting Utility Budget Highlights for FY2020

### Anticipated Revenues

No rate changes are proposed in the FY2020 budget or forecast in the immediate future. The base lighting rates were established in 2013 at \$3.73 per month for an average residential customer, or Equivalent Residential Unit (ERU), and are expected to remain unchanged for this fiscal year. Rates for enhanced tiers are Tier 1 \$5.67, Tier 2 \$15.94, and Tier 3 \$43.82.

Continuation of the private lights program is proposed in the FY2020 budget. The program includes a \$20,000 transfer from the General Fund and indicates the on-going desire of the City to provide a matching support to reduce the capital costs to neighborhoods installing private street lighting. Public Utilities administers this program.

The revenue budget is proposed to decrease by <\$875,078> from the FY2019 budget. The proposed budget for FY2020 by major category is as follows:

**Projected Street Revenues for FY 2019-20**

Revenue	Adopted Budget 2018-2019	Amended Budget 2018-2019	Proposed Budget 2019-2020	Difference	Percent Change
Operating Sales	4,170,000	4,170,000	4,198,227	28,227	0.68%
Interest	52,000	52,000	30,000	(22,000)	-42.31%
Other Revenues	9,000	9,000	9,000	-	0.00%
General Fund Contributions	20,000	20,000	20,000	-	0.00%
From (To) Reserves	1,317,117	1,415,355	534,050	(881,305)	-62.27%
<b>Total</b>	<b>\$ 5,568,117</b>	<b>\$ 5,666,355</b>	<b>\$ 4,791,277</b>	<b>\$ (875,078)</b>	<b>-15.44%</b>

Operating Sales: Rate changes are not proposed thus this category is not expected to change significantly. The FY2020 budget is based on actual revenue sales from FY2018

Interest Income: Interest earnings are expected to decrease as reserve funds are utilized.

General Fund Contributions: No change. Public Utilities anticipates the general fund to continue contributing \$20,000 for private light options in FY2020.

Reserve Funds: The FY2020 budget anticipates using \$534,050 from the utility's reserve funds—mostly unspent bond proceeds from the 2017 bond issue.

### Proposed Expenditures

Street Lighting capital improvements totaling \$1,725,000 are planned in the FY2020 budget. The Street Lighting Capital Program focuses on high efficiency and system



upgrades in neighborhood, arterial and collector streets and includes \$200,000 for lighting controls

The expenditure budget for the Street Lighting Utility is proposed to decrease <\$875,078> or <15.44%> from the FY2019 amended budget. The proposed budget for FY2020 by major category is as follows:

**Proposed Street Expenditures for FY 2019-20**

Major Expenditure Categories	Adopted Budget 2018-2019	Amended Budget 2018-2019	Proposed Budget 2019-2020	Difference	Percent Change
Personal Services	198,307	198,307	281,575	83,268	41.99%
Materials and Supplies	7,300	7,300	7,300	-	0.00%
Charges for Services	2,654,510	2,736,334	2,674,402	(61,932)	-2.26%
Debt Service	103,000	103,000	103,000	-	0.00%
Capital Improvements	2,605,000	2,621,414	1,725,000	(896,414)	-34.20%
<b>Total</b>	<b>\$ 5,568,117</b>	<b>\$ 5,666,355</b>	<b>\$ 4,791,277</b>	<b>\$(875,078)</b>	<b>-15.44%</b>

Personal Services: Employee related costs are estimated to increase \$83,268 of 41.99%. The Street Lighting Utility budget anticipates an increase of 1 FTE. The FY2020 budget includes a 3% COLA and a 7% increase in costs of employee insurance premiums.

Charges for Services: The proposed budget for charges and services decreases <\$61,932> or <2.26%> in FY2020 with a <\$81,824> budgeted decrease in professional services offset by an increase in budgeted power costs.

Debt Service: In compliance with the outstanding bond, Series 2017 Bond, budgeted debt service payments remain unchanged in FY2020.

Capital Equipment: No expenditures for capital equipment are planned.

Capital Improvements: The proposed Street Lighting CIP budget for FY2020 is \$1,725,000, a decrease of <\$896,414> from the FY2019 amended budget. A capital projects summary by facility type is as follows for base lighting and all enhanced tiers:

**Proposed Street Capital Improvement Program for FY 2019-20**

<b>Type of Project</b>	<b>Proposed Budget 2019-2020</b>
System upgrade for high efficiency and uniformity	1,525,000
Lighting controls	200,000
<b>Total 2019-2020 CIP</b>	<b>\$ 1,725,000.00</b>

## **Combined Utilities- Budget Summary and Cash Flow**

**PUBLIC UTILITIES  
WATER, SEWER, STORMWATER, AND STREET LIGHTING ENTERPRISE FUNDS  
COMBINED BUDGET SUMMARY  
2020-2022 BUDGET**

SOURCES	Combined Annual Rate Increase			8.2%	10.0%	10.1%
	ACTUAL 2017-2018	AMENDED BUDGET 2018-2019	PROJECTED ACTUAL 2018-2019	PROPOSED BUDGET 2019-2020	FORECAST BUDGET 2020-2021	FORECAST BUDGET 2021-2022
<b>REVENUES</b>						
METERED SALES	\$111,480,405	\$119,822,012	\$118,657,859	\$129,931,953	\$143,336,576	158,243,087
INTEREST INCOME	2,630,722	1,512,000	1,512,000	883,820	\$318,816	185,338
OTHER REVENUES	5,931,175	3,282,985	3,284,985	3,308,157	\$3,308,157	3,308,157
STREET LIGHTING FEES	4,198,227	4,170,000	4,198,227	4,198,227	\$4,198,227	4,198,227
<b>TOTAL REVENUES</b>	<b>\$124,240,529</b>	<b>\$128,786,997</b>	<b>\$127,653,071</b>	<b>\$138,322,157</b>	<b>\$151,161,776</b>	<b>165,934,809</b>
<b>OTHER SOURCES</b>						
GRANTS & OTHER RELATED REVENUES	\$3,333,556	\$3,875,000	\$3,875,000	\$3,741,000	\$3,741,000	2,441,000
IMPACT FEES	2,858,059	1,400,000	1,400,000	1,900,000	1,924,500	1,949,858
TRANSFERS FROM GENERAL FUND	20,000	20,000	20,000	20,000	20,000	20,000
BOND PROCEEDS	0	0	0	105,084,000	81,453,000	129,847,200
NON BOND FINANCING	8,500,000	4,000,000	0	0	67,429,000	85,926,000
SHORT-TERM FINANCING	0	1,355,000	0	0	0	0
COUNTY FLOOD CONTROL	0	0	0	0	0	0
OTHER SOURCES	118,152	70,000	70,000	70,000	70,000	70,000
<b>TOTAL OTHER SOURCES</b>	<b>\$14,829,767</b>	<b>\$10,720,000</b>	<b>\$5,365,000</b>	<b>\$110,815,000</b>	<b>\$154,637,500</b>	<b>220,254,058</b>
<b>TOTAL SOURCES</b>	<b>\$139,070,296</b>	<b>\$139,506,997</b>	<b>\$133,018,071</b>	<b>\$249,137,157</b>	<b>\$305,799,276</b>	<b>386,188,867</b>
<b>EXPENSES &amp; OTHER USES</b>						
<b>EXPENDITURES</b>						
PERSONNEL SERVICES	\$30,935,175	\$35,516,006	\$35,516,006	\$38,021,063	\$39,541,905	41,123,577
OPERATING & MAINTENANCE	\$4,951,624	6,362,247	\$6,362,247	\$6,733,060	6,856,022	6,993,143
TRAVEL & TRAINING	\$101,729	249,058	\$249,058	304,773	310,870	317,086
UTILITIES	\$4,289,708	5,069,662	\$5,069,662	5,034,877	5,074,877	5,123,765
TECHNICAL SERVICES	\$7,156,710	15,878,757	\$15,878,757	13,638,603	12,572,550	12,529,406
DATA PROCESSING	\$1,765,209	1,487,047	\$1,487,047	1,876,347	1,913,875	1,952,151
PUBLIC SERVICES / STREET SWEEPING	\$819,605	819,605	\$819,605	819,605	835,997	852,717
FLEET MAINTENANCE	1,821,898	2,007,000	\$2,007,000	2,007,000	2,047,140	2,088,082
ADMINISTRATIVE SERVICE FEE	1,089,863	1,225,000	\$1,225,000	1,251,000	1,276,020	1,301,540
PAYMENT IN LIEU OF TAXES	814,795	970,192	\$970,192	1,126,697	1,149,231	1,172,216
RISK MANAGEMENT	1,313,881	1,484,033	\$1,484,033	1,468,353	1,497,720	1,527,673
TRANSFERS TO GENERAL FUND	0	109,000	\$109,000	89,000	90,780	92,596
BILLING COST	1,237,745	1,368,013	\$1,368,013	1,373,051	1,400,512	1,428,523
BONDING NOTE EXPENSE	0	0	\$0	-	-	-
METRO. WATER PURCH & TREAT	15,528,950	15,994,818	\$15,994,818	16,474,663	16,968,903	17,477,971
METRO ASSESSMENT (CAPITAL)	7,021,892	7,021,892	\$7,021,892	7,021,892	7,021,892	7,021,892
OTHER CHARGES AND SERVICES	(869,406)	(180,918)	(\$180,918)	195,595	198,370	202,338
<b>TOTAL EXPENDITURES</b>	<b>\$77,979,378</b>	<b>\$95,381,412</b>	<b>\$95,381,412</b>	<b>\$97,435,579</b>	<b>\$98,756,664</b>	<b>101,204,676</b>
<b>OTHER USES</b>						
CAPITAL OUTLAY	\$6,193,492	\$11,144,372	\$6,716,975	\$11,931,596	\$4,373,000	4,373,000
CAPITAL IMPROVEMENT BUDGET	55,576,281	177,425,517	91,909,315	172,094,600	189,219,500	255,098,400
COST OF DEBT ISSUANCE	9,100	25,000	0	584,000	453,000	722,200
DEBT SERVICES	7,645,659	8,292,000	8,284,603	16,062,000	18,282,000	20,218,000
<b>TOTAL OTHER USES</b>	<b>\$69,424,532</b>	<b>\$196,886,889</b>	<b>\$106,910,893</b>	<b>\$200,672,196</b>	<b>\$212,327,500</b>	<b>280,411,600</b>
<b>TOTAL USES</b>	<b>\$147,403,910</b>	<b>\$292,268,301</b>	<b>\$202,292,305</b>	<b>\$298,107,775</b>	<b>\$311,084,164</b>	<b>381,616,276</b>
<b>EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES</b>						
	<b>(\$8,333,614)</b>	<b>(\$152,761,304)</b>	<b>(\$69,274,234)</b>	<b>(\$48,970,618)</b>	<b>(\$5,284,888)</b>	<b>4,572,591</b>
<b>OPERATING CASH BALANCES</b>						
BEGINNING JULY 1	\$152,753,095	\$144,419,481	\$144,419,481	\$75,145,247	\$26,174,629	20,889,741
ENDING JUNE 30	\$144,419,481	(\$8,341,823)	\$75,145,247	\$26,174,629	\$20,889,741	25,462,332
Cash Reserve Ratio	185%	-9%	79%	27%	21%	25%
<b>Cash reserve goal above 10%</b>						

**PUBLIC UTILITIES**  
**Water, Sewer, Stormwater and Street Lighting Enterprise Funds**  
**Combined Cash Flow**  
**FY 2020 Budget and FY 2021-2024 Forecast Budget**

	ACTUAL YEAR 2017-2018	PROJECTED YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-2023	BUDGET YEAR 2023-2024
WATER SALES	69,351,147	72,125,193	75,731,453	79,784,026	83,773,227	87,961,888	93,239,601
SEWER CHARGES	33,620,751	37,677,666	44,460,000	52,838,000	62,791,000	72,718,000	80,548,000
STORMWATER FEES	8,508,507	8,855,000	9,740,500	10,714,550	11,678,860	12,379,591	12,998,571
STREET LIGHTING FEES	4,198,227	4,198,227	4,198,227	4,198,227	4,198,227	4,198,227	4,198,227
TOTAL SERVICES FEES AND CHARGES	115,678,632	122,856,086	134,130,180	147,534,803	162,441,314	177,257,706	190,984,399
OTHER INCOME	5,934,020	3,304,985	3,328,157	3,328,157	3,328,157	3,328,157	3,328,157
INTEREST INCOME	2,630,722	1,512,000	883,820	318,816	185,338	256,254	203,104
OPERATING INCOME	124,243,374	127,673,071	138,342,157	151,181,776	165,954,809	180,842,117	194,515,660
OPERATING EXPENDITURES	(77,986,578)	(95,381,412)	(97,435,579)	(98,756,664)	(101,204,676)	(103,806,581)	(106,203,662)
NET INCOME EXCLUDING DEP.	46,256,796	32,291,659	40,906,578	52,425,112	64,750,133	77,035,536	88,311,998
WIFIA LOAN			0	67429000	85926000	65057000	31865000
NET BOND PROCEEDS	0	0	104,500,000	81,000,000	129,125,000	94,000,000	42,000,000
SHORT TERM FINANCING	0	0	0	0	0	0	0
STATE LOAN	8,500,000	0	0	0	0	0	0
IMPACT FEES	2,858,059	1,400,000	1,900,000	1,924,500	1,949,858	1,976,103	2,003,267
OTHER CONTRIBUTIONS	3,468,863	3,945,000	3,811,000	3,811,000	2,511,000	2,311,000	2,311,000
CAPITAL OUTLAY	(6,193,492)	(6,126,238)	(10,431,596)	(2,873,000)	(2,873,000)	(2,873,000)	(2,873,000)
WATERSHED PURCHASES	0	(590,737)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)
STATE LOAN DEBT SERVICE	0	0	(6,375,000)	(2,125,000)	0	0	0
SHORT TERM FINANCING DEBT SERVICE	0	0	0	0	0	0	0
DEBT SERVICE	(7,647,559)	(8,284,603)	(8,297,000)	(10,861,000)	(10,854,000)	(10,851,000)	(11,183,850)
NEW DEBT SERVICE	0	0	(1,390,000)	(5,296,000)	(9,364,000)	(14,459,000)	(20,281,000)
OTHER INCOME & EXPENSE	985,871	(9,656,578)	82,217,404	131,509,500	194,920,858	133,661,103	42,341,417
AVAILABLE FOR CAPITAL	47,242,667	22,635,081	123,123,982	183,934,612	259,670,991	210,696,639	130,653,415
CAPITAL IMPROVEMENTS	(55,576,281)	(91,909,315)	(172,094,600)	(189,219,500)	(255,098,400)	(214,028,000)	(130,399,000)
BEGINING CASH BALANCE	152,753,095	144,419,481	75,145,247	26,174,629	20,889,741	25,462,332	21,880,971
CASH INCREASE/(DECREASE)	(8,333,614)	(69,274,234)	(48,970,618)	(5,284,888)	4,572,591	(3,331,361)	254,415
ENDING BALANCES	144,419,481	75,145,247	26,174,629	20,889,741	25,462,332	22,130,971	22,135,386
DEBT SERVICE COVERAGE	6.05	3.90	4.22	3.24	3.20	3.04	2.81
CASH RESERVE RATIO	185.2%	78.8%	26.9%	21.2%	25.2%	21.3%	20.8%
DEBT SERVICE % OF GROSS OPERATING REVENUE	6.3%	6.5%	6.9%	10.5%	12.1%	13.9%	16.1%
RESIDENTIAL UTILITY BILL	63.65	67.46	70.25	75.76	81.86	87.88	93.81
% CHANGE RESIDENTIAL UTILITY BILL*		6.0%	4.14%	7.8%	8.1%	7.4%	6.7%

\* Residential Utility Bill assumes annual water consumption of 255 ccf/12 months, 4 ccf monthly of sewer, 1 Stormwater ERU (.25 acres) monthly, and 1 Street Lighting ERU (75 feet) monthly.

**PUBLIC UTILITIES  
FEES AND CHARGES PAID TO THE GENERAL FUND  
FOR SERVICES RENDERED  
OR COLLECTED BY CITY ORDINANCE**

DESCRIPTION OF SERVICES	June 30, 2018 ACTUALS WATER	June 30, 2018 ACTUALS SEWER	June 30, 2018 ACTUALS STORM	June 30, 2018 ACTUALS STREET LIGHT	ACTUAL Public Utilities June 30, 2018 TOTALS	FY 2018/2019 BUDGET	FY PROPOSED 2019/2020 BUDGET
<b>Administrative Service Fees (General Fund)</b>							
Human Resources	\$ 144,501	\$ 124,064	\$ 33,232	\$ 1,954	\$ 303,751	\$ 358,450	\$ 348,670
City Attorney	135,198	22,364	10,165	2,033	169,760	167,350	194,860
Accounting/Finance	131,822	58,626	12,442	3,569	206,459	272,280	236,980
Purchasing & Contracts	66,060	27,842	3,213	2,607	99,722	96,130	114,470
City Recorders	45,263	7,259	7,651	867	61,040	86,260	70,060
Property Management	-	-	-	-	-	7,770	-
Budget and Policy	25,667	10,732	3,041	217	39,657	45,780	45,520
Non-discretionary IMS Costs	50,630	27,072	13,881	1,094	92,677	197,480	106,380
Treasurer's Office (cash mgt.)	11,272	4,585	3,974	2,952	22,783	13,970	26,150
City Council	37,787	22,758	13,311	16,746	90,602	50,960	104,000
Mayor	326	326	326	-	978	3,070	1,120
Community Affairs	1,012	632	379	411	2,434	1,000	2,790
<b>Total Admin Fees</b>	<b>\$ 649,538</b>	<b>\$ 306,260</b>	<b>\$ 101,615</b>	<b>\$ 32,450</b>	<b>\$ 1,089,863</b>	<b>\$ 1,300,500</b>	<b>\$ 1,251,000</b>
<b>Tax or Fee Authorized</b>							
Payment in Lieu-of-Taxes (General Fund)	\$ 398,485	\$ 306,525	\$ 109,785	\$ -	\$ 814,795	\$ 831,092	1,126,697
Franchise Fees (General Fund)	2,810,068	1,374,769	350,175	-	4,535,012	5,622,628	6,147,049
<b>Sub Total</b>	<b>\$ 3,208,553</b>	<b>\$ 1,681,294</b>	<b>\$ 459,960</b>	<b>\$ -</b>	<b>\$ 5,349,807</b>	<b>\$ 6,453,720</b>	<b>\$ 7,273,746</b>
<b>Internal Service Fund Services</b>							
Fleet Mgt. Services	\$ 1,029,585	\$ 568,448	\$ 223,731	\$ -	\$ 1,821,764	\$ 2,042,040	\$ 2,007,000
City Data Processing (IMS)	912,977	381,234	294,929	1,117	1,590,257	933,300	1,539,000
Telephone Charges	-	-	-	-	-	94,248	8,400
Risk Mgt. Administrative Fees (Gov. Immunity)	111,519	44,317	3,048	-	158,884	246,381	216,550
Risk Management Premiums & Charges	632,362	258,886	54,937	-	946,185	1,495,502	1,251,803
<b>Sub Total</b>	<b>\$ 2,686,442</b>	<b>\$ 1,252,885</b>	<b>\$ 576,645</b>	<b>\$ 1,117</b>	<b>\$ 4,517,090</b>	<b>\$ 4,811,471</b>	<b>5,022,753</b>
<b>Special Associated Charges (indirect benefit)</b>							
OneSolution Maintenance (network financial syste	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 111,180	89,000
Street Sweeping	-	-	819,605	-	819,605	835,997	819,605
Neighborhood Clean-up	-	-	-	-	-	118,000	-
Emergency Management	-	-	-	-	-	30,000	-
Tracy Aviary Stormwater Education Cost	-	-	154,350	-	154,350	75,000	75,000
<b>Sub Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 973,955</b>	<b>\$ -</b>	<b>\$ 973,955</b>	<b>\$ 1,170,177</b>	<b>\$ 983,605</b>
<b>TOTAL FEES, TAXES AND CHARGES</b>	<b>\$ 6,544,533</b>	<b>\$ 3,240,440</b>	<b>\$ 2,112,175</b>	<b>\$ 33,567</b>	<b>\$ 11,930,715</b>	<b>\$ 13,735,868</b>	<b>\$ 14,531,104</b>

## Public Utilities Proposed Consulting Studies for FY 2019-2020

Division	Cost Center	Study or Project Description	Lighting	Water	Sewer	Storm	Total
Administration	5103000	5-Year Emergency Preparedness Plan		12,000			12,000
Administration	5100200	Well Study		20,000			20,000
Administration	5103000	Ongoing Environmental Assessments for PU facilities		20,000			20,000
Administration	5103400	Standards development		20,000			20,000
Administration	5103600	Water Conservation		50,000			50,000
Administration	5100200	Central Wasatch Commission		200,000			200,000
Engineering	4848000	Street Light Master Plan	90,000				90,000
Engineering	5210400	Basin Inflow Testing			300,000		300,000
Engineering	5210400	Jacobs Program Support			350,000		350,000
Engineering	5310300	Jacobs Program Support				50,000	50,000
Engineering	5310300	Storm Water Master Plan				700,000	700,000
Engineering	5101300	Water loss study		100,000			100,000
Engineering	5101300	AMP for Storage Reservors		135,000			135,000
Engineering	5101300	Campus study		350,000			350,000
Engineering	5101300	Jacobs Program Support		400,000			400,000
Engineering	5101300	Water Master Plan		500,000			500,000
Finance	5211700	Energy Retro-Commissioning Study			55,000		55,000
Finance	5310500	Energy Retro-Commissioning Study				35,000	35,000
Finance	5103200	Adjudication and other administrative needs.		500,000			500,000
GIS	5101600	Water Data Tracking Software & Consultant		250,000			250,000
Maintenance	5310200	Clean parts of Irrigation system				25,000	25,000
Maintenance	5100100	Geotech consultants		50,000			50,000
Maintenance	5100100	Consulting Project for Canals		60,000			60,000
Maintenance	5100300	Consultants for Well Issues		100,000			100,000
Reclamation	5212400	Study to identify inhibiting-causing pollutants at the WRF			40,000		40,000
Reclamation	5212400	Study to evaluate and determine updated local wastewater discharge limits			60,000		60,000
Reclamation	5212400	Study to evaluate and determine updated sewer rate classifications			250,000		250,000
Water Quality	5310700	Consultant to address MS4 Audit/QAQC				20,000	20,000
Water Quality	5310700	TMDL Load Allocation				50,000	50,000
Water Quality	5100600	Misc Needs		15,000			15,000
Water Quality	5100600	PR Campaign additional Funds		30,000			30,000
Water Quality	5101800	Public Relations		30,000			30,000
Water Quality	5101800	Utah State University Canal Water Quality Analysis		32,000			32,000
Water Quality	5101800	Process Controls		35,000			35,000
Water Quality	5100600	Watershed Plan		120,000			120,000
			<b>\$ 90,000</b>	<b>\$ 3,029,000</b>	<b>\$ 1,055,000</b>	<b>\$ 880,000</b>	<b>\$ 5,054,000</b>





## **Water Utility- Budget Summary and Cash Flow**

**WATER UTILITY  
ENTERPRISE FUND  
BUDGET SUMMARY  
Fiscal Years 2020-22**

<b>SOURCES</b>			Rate Increase 5%		Rate Increase 5%		Rate Increase 5%	
	ACTUAL 2017-18	AMENDED BUDGET 2018-19	PROJECTED ACTUAL 2018-19	PROPOSED BUDGET 2019-20	FORECAST BUDGET 2020-21	FORECAST BUDGET 2021-22		
<b>REVENUES</b>								
METERED SALES	\$69,351,147	\$73,289,346	\$72,125,193	\$75,731,453	\$79,784,026	\$83,773,227		
INTEREST INCOME	831,749	375,000	375,000	229,000	92,000	89,000		
OTHER REVENUES	4,240,466	3,037,985	3,037,985	3,063,157	3,063,157	3,063,157		
<b>TOTAL REVENUES</b>	<b>\$74,423,362</b>	<b>\$76,702,331</b>	<b>\$75,538,178</b>	<b>\$79,023,610</b>	<b>\$82,939,183</b>	<b>\$86,925,384</b>		
<b>OTHER SOURCES</b>								
GRANTS & OTHER RELATED REVENUES	\$1,804,748	\$1,205,000	\$1,205,000	\$1,205,000	\$1,205,000	\$1,205,000		
IMPACT FEES	1,520,259	500,000	500,000	1,000,000	1,000,000	1,000,000		
OTHER SOURCES	115,307	50,000	50,000	50,000	50,000	50,000		
BOND PROCEEDS	-	-	-	35,196,000	42,235,000	26,146,000		
<b>TOTAL OTHER SOURCES</b>	<b>\$3,440,314</b>	<b>\$1,755,000</b>	<b>\$1,755,000</b>	<b>\$37,451,000</b>	<b>\$44,490,000</b>	<b>\$28,401,000</b>		
<b>TOTAL SOURCES</b>	<b>\$77,863,676</b>	<b>\$78,457,331</b>	<b>\$77,293,178</b>	<b>\$116,474,610</b>	<b>\$127,429,183</b>	<b>\$115,326,384</b>		
<b>EXPENSES &amp; OTHER USES</b>								
<b>EXPENDITURES</b>								
PERSONNEL SERVICES	\$19,852,264	\$22,069,746	\$22,069,746	23,387,302	\$24,322,796	\$25,295,713		
OPERATING & MAINTENANCE	3,392,135	4,233,777	4,233,777	4,415,380	4,492,588	4,582,441		
TRAVEL & TRAINING	45,173	146,408	146,408	167,083	170,426	173,834		
UTILITIES	2,397,853	2,854,647	2,854,647	2,784,962	2,840,660	2,897,473		
TECHNICAL SERVICES	3,657,447	8,726,160	8,726,160	7,543,867	6,490,344	6,390,712		
DATA PROCESSING	1,065,047	967,347	967,347	1,177,347	1,200,895	1,224,911		
FLEET MAINTENANCE	1,029,720	1,250,000	1,250,000	1,250,000	1,275,000	1,300,500		
ADMINISTRATIVE SERVICE FEE	649,538	800,000	800,000	800,000	816,000	832,320		
PAYMENT IN LIEU OF TAXES	398,485	476,000	476,000	365,000	372,300	379,746		
METRO. WATER PURCH & TREAT	15,528,950	15,994,818	15,994,818	16,474,663	16,968,903	17,477,971		
METRO ASSESSMENT (CAPITAL)	7,021,892	7,021,892	7,021,892	7,021,892	7,021,892	7,021,892		
RISK MANAGEMENT	952,332	1,088,550	1,088,550	1,123,187	1,145,651	1,168,563		
TRANSFERS TO GENERAL FUND	0	85,000	85,000	85,000	86,700	88,434		
OTHER CHARGES AND SERVICES	(1,032,212)	(359,811)	(359,811)	(319,913)	(328,020)	(334,579)		
<b>TOTAL EXPENDITURES</b>	<b>\$54,958,624</b>	<b>\$65,354,534</b>	<b>\$65,354,534</b>	<b>\$66,275,770</b>	<b>\$66,876,135</b>	<b>\$68,499,931</b>		
<b>OTHER USES</b>								
CAPITAL OUTLAY	\$5,148,158	\$4,682,304	\$4,898,838	\$2,509,447	\$2,930,000	\$2,930,000		
CAPITAL IMPROVEMENT BUDGET	18,041,425	51,641,293	24,629,211	59,255,100	53,501,500	38,542,400		
COST OF DEBT ISSUANCE	1,900	0	0	196,000	235,000	146,000		
DEBT SERVICES	967,961	1,117,000	1,117,000	1,585,000	3,043,000	4,600,000		
<b>TOTAL OTHER USES</b>	<b>\$24,159,444</b>	<b>\$57,440,597</b>	<b>\$30,645,049</b>	<b>\$63,545,547</b>	<b>\$59,709,500</b>	<b>\$46,218,400</b>		
<b>TOTAL USES</b>	<b>\$79,118,068</b>	<b>\$122,795,131</b>	<b>\$95,999,583</b>	<b>\$129,821,317</b>	<b>\$126,585,635</b>	<b>\$114,718,331</b>		
<b>EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES</b>								
	(\$1,254,392)	(\$44,337,800)	(\$18,706,405)	(\$13,346,707)	\$843,548	\$608,053		
<b>OPERATING CASH BALANCES</b>								
BEGINNING JULY 1	\$47,048,055	\$45,793,663	\$45,793,663	\$27,087,258	\$13,740,551	\$14,584,099		
ENDING JUNE 30	\$45,793,663	\$1,455,863	\$27,087,258	\$13,740,551	\$14,584,099	\$15,192,152		
Cash Reserve Ratio	83%	2%	41%	21%	22%	22%		
Cash reserve goal above 10%								

**WATER UTILITY**  
**Cash Flow**  
**FY 2020 Budget**  
**and FY 2021-2024 Budget Forecast**

Rates +5% FY20 - FY23 +6% FY24  
 Bonds Total \$169M, \$35M,\$42M,\$26M,\$29M,\$15M ...  
 CIP 100%, New Bond Pmts thru FY 24: \$21.3

	ACTUAL YEAR 2017-2018	PROJECTED YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-2023	BUDGET YEAR 2023-2024
WATER SALES	69,351,147	72,125,193	75,731,453	79,784,026	83,773,227	87,961,888	93,239,601
OTHER INCOME	4,240,466	3,037,985	3,063,157	3,063,157	3,063,157	3,063,157	3,063,157
INTEREST INCOME	831,749	375,000	229,000	92,000	89,000	90,000	93,000
OPERATING INCOME	74,423,362	75,538,178	79,023,610	82,939,183	86,925,384	91,115,045	96,395,758
METROPOLITAN WATER ASSESSMENT	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)
METROPOLITAN WATER PURCHASES	(15,528,950)	(15,994,819)	(16,474,663)	(16,968,903)	(17,477,971)	(18,002,310)	(18,542,380)
OPERATING EXPENDITURES	(32,407,782)	(42,337,823)	(42,779,215)	(42,885,337)	(44,000,060)	(45,120,974)	(46,539,544)
NET INCOME EXCLUDING DEP.	19,464,738	10,183,644	12,747,840	16,063,051	18,425,461	20,969,869	24,291,942
NET BOND PROCEEDS			35,000,000	42,000,000	26,000,000	29,000,000	15,000,000
BIC Borrowed			196,000	235,000	146,000	162,000	84,000
BIC Paid			(196,000)	(235,000)	(146,000)	(162,000)	(84,000)
SHORT TERM FINANCING							
IMPACT FEES	1,520,259	500,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
OTHER CONTRIBUTIONS	1,920,055	1,255,000	1,255,000	1,255,000	1,255,000	1,255,000	1,255,000
CAPITAL OUTLAY	(5,148,158)	(4,308,101)	(1,009,447)	(1,430,000)	(1,430,000)	(1,430,000)	(1,430,000)
WATERSHED PURCHASES	0	(590,737)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)
DEBT SERVICE	(969,861)	(1,117,000)	(1,127,000)	(1,085,000)	(1,090,000)	(1,091,000)	(1,040,000)
NEW DEBT SERVICE	0	0	(458,000)	(1,958,000)	(3,510,000)	(4,730,000)	(6,625,000)
OTHER INCOME & EXPENSE	(2,677,705)	(4,260,838)	33,160,553	38,282,000	20,725,000	22,504,000	6,660,000
GENERATED FOR CAPITAL	16,787,033	5,922,806	45,908,393	54,345,051	39,150,461	43,473,869	30,951,942
CAPITAL IMPROVEMENTS	(18,041,425)	(24,629,211)	(59,255,100)	(53,501,500)	(38,542,400)	(42,350,000)	(29,914,000)
BEGINING CASH BALANCE	47,048,055	45,793,663	27,087,258	13,740,551	14,584,102	15,192,163	16,316,032
CASH INCREASE/(DECREASE)	(1,254,392)	(18,706,405)	(13,346,707)	843,551	608,061	1,123,869	1,037,942
ENDING BALANCES	45,793,663	27,087,258	13,740,551	14,584,102	15,192,163	16,316,032	17,353,974
RESTRICTED / RESERVED CASH	(23,928,611)	(8,952,141)	(8,952,141)	(8,952,141)	(8,952,141)	(8,952,141)	(8,952,141)
AVAILABLE ENDING BALANCE	21,865,052	18,135,117	4,788,410	5,631,961	6,240,022	7,363,891	8,401,833
S&P COVERAGE (INCLUDES MWA AS DEBT SERVICE)		2.11	2.30	2	2.19	2.18	2.13
DEBT SERVICE COVERAGE	20.07	9.12	8.04	5	4.01	3.60	3.17
RATE CHANGE	4%	4%	5%	5%	5%	5%	6%
Cash Reserve Ratio (Total Cash)	83%	41%	21%	22%	22%	23%	24%
DEBT SERVICE % OF GROSS OPERATING REVENUE	1.30%	1.45%	1.95%	3.57%	5.16%	6.23%	7.77%
MONTHLY RESIDENTIAL BILL (255 ccf annually/12 mos.)	44.83	46.60	46.41	48.74	51.18	53.74	56.97

**WATER UTILITY CIP BUDGET**  
**Five Year Projected Budget FY2020-2024**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR SPENT 2018-19 (Calc'd from P6)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
51-01301-	2720.10		<b>MAINTENANCE &amp; REPAIR SHOPS</b>									
01401		2015-0460	DISTRIBUTION AND ELECTRICAL BARN CAMPUS	4	4	0						850,000
03201	512185		FUEL PUMP AWNINGS	5	0	0				15,000,000	10,000,000	
										250,000		
						\$ -	\$ -	\$ -	\$ -	\$ 15,250,000	\$ 10,000,000	\$ 850,000
51-01301-	2720.30		<b>TREATMENT PLANTS</b>									
			<b>CITY CREEK</b>									
00701	5122628	2015-0178	DRYING BED PIPELINES	5	5	723,637						
00701	5122665	2015-0685	CCWTP CONTINGENCY PROJECTS	5	5	0						
00701	512260079	2017-2043	TREATMENT PLANT UPGRADES (PENDING 2019 ASSESSMENT RESULTS; DESIGN AND CONST	5	5	326,088	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	
00701	5122674		HYPOGENERATOR DESIGN	3	0	0						
00701		2015-0177	CITY CREEK - ACTUATORS/SCADA (MULTIPLE LOCATIONS)	3	3	0						
00701		2015-0182	IMPLEMENTATION OF SCADA MASTER PLAN	3	3	0						
00701		2015-0447	CLARIFIER UPGRADE	3	3	0						
00701		2015-0702	ELECTRICAL SYSTEM ASSESSMENT AND UPGRADE	5	4	0						
00701		2016-0871	SEISMIC UPGRADE FILTER BUILDING STUDY	5	4	0						
00701		2016-0876	PRESSURE DIFFERENTIAL TRANSMITTERS	3	4	0						
00701		2016-0880	CREEK CHANNEL	3	4	0						
00701		2016-0881	FILTER/FLUORIDE BUILDING GATE	3	4	0						
00701		2017-1297	PUMP BACK SYSTEM	2	0	0						
00701		2018-1098	CITY CREEK FILTER MEDIA REPLACEMENT	4	5	0						
00701		2019-1001	CITY CREEK WTP UPGRADES - PHASE 2	5	3	0						30,000,000
00701	512260078	2016-0879	BACKWASH TANK SEISMIC UPGRADE AND RETAINING WALL	5	4	62,473						
00701	512260077	2017-2042	CITY CREEK CCTV SYSTEM UPGRADE	5	4	18,000						
00701	5122676		COAGULATION BUILDING DEMOLITION			101,669						
						\$ 1,231,866	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 30,000,000
			<b>PARLEY'S</b>									
00801	5124561	2015-0686	PWTP CONTINGENCY PROJECTS	5	5	0						
00801	512450070	2015-0688	FILTER ASSESSMENT AND FILTER #5 REPAIR	5	5	75,000						
00801	5124525	2015-0203	REPLACE SLUDGE COLLECTION SYSTEM FLIGHTS, CHAINS, AND DRIVES	5	5	1,898,136						
00801	5124506	2015-0201	LABORATORY UPGRADE (BUILD)	5	4	1,284,460						
00801	512450068	2015-0701	PLANT DESIGN AND UPGRADES	5	4	205,880	1,500,000	10,000,000	2,000,000	2,000,000	2,000,000	
00801	5124532		REPLACEMENT OF CHEMICAL FEED PUMPS PARLEY'S CANYON			0						
00801	512450069	2015-0594	BACK-UP WATER SUPPLY FOR HIGH PRESSURE TANK	5	3	0						
00801		2015-0695	RELOCATE POTASSIUM PERMANGANATE FEED SYSTEM	4	4	0						
00801	5124526	2015-0455	INFLUENT CONTROL BOX	4	3	0						
00801	512450066	2016-0867	ROOF REPLACEMENT	4	5	0						
00801	512450067	2016-0874	REBUILD/REPLACE FLOC-SED BASIN VENTILATION SYSTEM	2	5	0						
00801		2015-0450	PRECURSOR - TASTE AND ODOR CONTROL	3	3	0						
00801	5124504	2015-0449	SLUDGE BEDS - PIPING AND VALVES	2	3	0						
00801		2015-0197	ELECTRICAL CONDUITS/PAVING TO BLOW-OFF BOX/ASPHALT EAST AND SOUTH OF FAC	3	3	0						
00801		2015-0204	REPLACE FLOCCULATORS	4	4	0						
00801		2015-0448	SCADA MASTER PLAN IMPLEMENTATION	4	4	0						
00801		2015-0452	NEW I/O AND PLC	2	1	0						
00801		2017-2005	PROCESS UPGRADES (FROM SED BASIN PREDESIGN)	1	0	0						
00801		2017-2006	VERTICAL FLOCCULATOR INSTALLATION	5	3	0						
00801	512450072	2016-1280	PLANT LIGHTING	5	4	30,000						
00801	512450073		SODIUM HYPOCHLORITE STORAGE TANK FOR PWTP AND BCWTP			40,000	300,000					
00801		2018-1037	PARLEYS DIVERSION SCREEN PROJECT	4	0	0	250,000	1,250,000				1,500,000

**WATER UTILITY CIP BUDGET**  
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COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR SPENT 2018-19 (Calc'd from P6)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
00801		2018-1095	PARLEYS FINISHED WATER RESERVOIR	3	0	0						20,000,000
00801		2018-1094	NEW PARLEYS WATER TREATMENT PLANT	5	4	0						136,500,000
						\$ 3,533,477	\$ 2,050,000	\$ 11,250,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 158,000,000
			<b>BIG COTTONWOOD</b>									
00901	51262759	2015-0186	SCADA MASTER PLAN/OPERATOR STATION UPGRADE IMPLEMENTATION			0	300,000					
00901	512627462	2015-0684	BCWTP CONTINGENCY PROJECTS	5	5	0						
00901	512627460	2015-0192	SEDIMENTATION BASIN REBUILD	5	5	829,641						
00901		2019-1002	BIG COTTONWOOD WTP REBUILD - PHASE 1	5	4	0	2,500,000	5,000,000	2,500,000	2,000,000	2,000,000	80,000,000
00901		2015-0191	BIG COTTONWOOD - ASPHALT LOWER-END OF BUILDING TO DRYING BEDS	5	5	0						
00901	512627469	2017-2049	RELOCATION AND HOUSING OF SWITCHGEAR	5	5	0						
00901		2015-0188	FINISHED WATER FLOW METER/FINISHED WATER SAMPLE POINT	5	4	0						
00901		2016-1236	90 FOOT CHANNEL UPGRADES	4	4	0						
00901		2015-0190	REPLACE FLOCCULATION SHAFT DRIVES AND EQUIPMENT	4	4	0						150,000
00901		2015-0698	REROOF COAGULATION BUILDING	4	3	0						100,000
00901		2018-1030	BIG COTTONWOOD SLUDGE SYSTEM UPGRADE	5	4	0						1,500,000
00901		2018-1043	BIG COTTONWOOD WTP REBUILD - PHASE 2	5	4	0						75,000,000
00901		2015-0189	2-10 MILLION GALLON FINISHED WATER STORAGE RESERVOIR	3	3	0						
00901	512627470	2015-0713	HVAC UPGRADES IN FILTER ROOM	5	5	45,044						
00901	512627457	2016-1279	PLANT LIGHTING	5	4	30,000						
00901		2018-1099	FILTER ASSESSMENT AND IMPROVEMENTS	5	4	0	1,500,000					
						\$ 904,685	\$ 4,300,000	\$ 5,000,000	\$ 2,500,000	\$ 2,000,000	\$ 2,000,000	\$ 156,750,000
			<b>TOTAL TREATMENT PLANTS</b>			\$ 5,670,028	\$ 7,850,000	\$ 17,750,000	\$ 6,000,000	\$ 5,500,000	\$ 5,500,000	\$ 344,750,000
			<b>PUMPING PLANTS AND PUMP HOUSES</b>									
51-01301-	2720.35		<b>PUMPING PLANTS AND PUMP HOUSES</b>									
01301	513416331		EAST BENCH PUMP STATION - FULL BACKUP POWER	5	5	623,996						
01301		2016-1174	5TH AVE AND U ST PUMP STATION BACKUP POWER	5	5	0	400,000					
01301	513416364	2016-1282	BONNEVILLE AND EAST BENCH PUMP STATION - PUMP UPGRADES	5	5	24,000						
01301	513416365	2015-0514	NORTH BENCH PUMP STATION ROOF	4	5	27,494						
01301	513505271	2015-0378	UPLAND DR PROJECT	4	5	0	800,000					
01301	513800033	2015-0555	3900 SOUTH BIRCH DRIVE VALVE VAULT	4	4	8,142						
01301	513416359	2016-0888	3900 SOUTH PUMP STATION	4	4	313,408	30,000	3,600,000	7,200,000			
01301	513416366	2015-0531	GOLDEN HILLS PUMP STATION	3	5	90,000	60,000					
01301	513416367	2016-1208	5TH AND U PUMP STATION IMPROVEMENTS	4	4	12,981	275,000					
01301	513416361	2015-0563	OAKHILLS PUMP STATION - MCC - VFD - PUMP UPGRADE	3	3	0		550,000				
01301		2016-0937	ENSIGN DOWNS PS VFD	3	3	0			20,000			
01301	513416336	2015-0428	MP 3.12 B - 7800 SOUTH AUXILIARY POWER	3	3	0			305,000			
01301		2016-1179	300 EAST PUMP STATION BACKUP POWER	3	3	0			400,000			
01301		2016-1180	3300 SOUTH BOOSTER PUMP STATION BACKUP POWER	3	3	0			400,000			
01301		2016-1181	KENTON DRIVE PUMP STATION BACKUP POWER	3	3	0			400,000			
01301		2016-1183	VIRGINIA AND MILLCREEK PUMP STATION BACKUP POWER	3	3	0				400,000		
01301		2016-1184	EASTWOOD PUMP STATION BACKUP POWER	3	3	0				400,000		
01301		2016-1185	MILLCREEK PUMP STATION BACKUP POWER	3	3	0				400,000		
01301		2016-1186	39TH AND BIRCH PUMP STATION BACKUP POWER	3	3	0				400,000		
01301		2016-1187	CANYON COVE PUMP STATION BACKUP POWER	3	3	0					400,000	
01301		2016-1188	7800 SOUTH PUMP STATION BACKUP POWER	3	3	0					400,000	
01301		2016-1189	GOLDEN HILLS PUMP STATION BACKUP POWER	3	3	0					400,000	
01301		2016-1190	CARRIGAN COVE PUMP STATION BACKUP POWER	3	3	0					400,000	
01301		2016-1173	NORTH BENCH PUMP STATION BACKUP POWER	3	3	0						400,000
01301		2016-1175	UNIVERSITY PUMP STATION BACKUP POWER	3	3	0						400,000

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COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR SPENT 2018-19 (Calc'd from P6)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
01301		2016-1176	RESEARCH PARK PUMP STATION BACKUP POWER	3	3	0						400,000
01301		2016-1177	OAK HILLS PUMP STATION BACKUP POWER	3	3	0						400,000
01301		2016-1178	BONNEVILLE PUMP STATION BACKUP POWER	3	3	0						400,000
01301		2016-1191	3900 SOUTH BOOSTER PUMP STATION BACKUP POWER	3	3	0						400,000
01301		2016-1192	6200 SOUTH IRRIGATION PUMP STATION BACKUP POWER	3	3	0						400,000
01301		2016-1193	EMIGRATION PUMP STATION BACKUP POWER	3	3	0						400,000
01301		2016-1223	5TH AVE AND U ST PUMP STATION VFD'S	3	3	0						200,000
01301		2016-1224	ARLINGTON HILLS PUMP STATION VFD'S	3	3	0						200,000
01301		2016-1225	NORTH BENCH PUMP STATION VFD'S	3	3	0					200,000	
01301		2016-1226	5TH AVE AND U ST PUMP STATION PIPING	3	3	0						200,000
01301		2017-2009	REPAIR AND LINE OF UNIVERSITY DRAIN LINE	2	3	0						10,000
01301		2015-0517	4500 SOUTH PUMP STATION BLACK TOP	1	3	0						25,000
01301		2015-0522	RECURRING PUMP STATION REPAIR FUND	3	0	0						50,000
01301	513416329	2015-0169	UV UPGRADE 6200 SOUTH PUMP STATION	1	2	0						300,000
01301		2016-1194	ENSIGN DOWNS PUMP STATION BACKUP POWER	3	0	0						400,000
01301		2015-0172	MP 3.8C - VICTORY ROAD - ENSIGN DOWNS PHASE II - PROPERTY PURCHASE - IF	4	0	0						500,000
01301		2015-0173	4500 SOUTH PUMP STATION (BACK UP)	5	0	0						1,500,000
						\$ 1,100,021	\$ 1,565,000	\$ 4,150,000	\$ 8,725,000	\$ 1,600,000	\$ 1,800,000	\$ 6,585,000
51-01301-	2730.02		<b>CULVERTS FLUMES &amp; BRIDGES</b>									
01301	5129264		JSL CANAL CONDUIT REPLACEMENT - SUGARHOUSE	5	5	67,976	1,000,000					
01301	513000045	2016-1166	SUGARHOUSE WELL SPLASH PAD	5	5	59,889	150,000					150,000
01301	512900272	2015-0432	VARIOUS CANAL IMPROVEMENTS	5	5	25,000	25,000	25,000	25,000	25,000	25,000	
01301	512900273	2016-0737	IRRIGATION SCADA IMPROVEMENTS	5	5	20,000	50,000	20,000	20,000	20,000	20,000	
01301		2016-0816	ROCKHOUSE DUMP - INTAKE IMPROVEMENT	5	4	0		78,500				
01301	513000034	2016-0858	FLUME FROM DOUBLE BARRELS TO RAILROAD TRACKS	4	4	21,512			1,250,000	1,250,000		
01301	5129246	2015-0158	REPLACE FLUME/AUTO DUMP AND JSL CANAL ENCLOSURE @ MILLCREEK	4	4	0	100,000	468,000				
01301	512900274	2017-2076	HEADGATE REHABILITATION 18/19	4	4	20,000	20,000	20,000	20,000	20,000	20,000	
01301	513000026	2015-0161	E JORDAN TOWER - IMPROVED ACCESS	3	5	20,000		150,000				
01301		2016-1167	6200 SOUTH LIFT STATION WEIR PROTECTION	3	5	0	60,000					
01301	5129231	2015-0152	JSL CANAL - 1750 S EMIGRATION DIVERSION STRUCTURE REBUILD	4	3	0				50,000	290,000	
01301	5129233	2015-0604	JSL 3800 S REHAB FLOOR AND LEAKAGE	3	4	0			18,000			
01301	5129251	2015-0151	JSL ENCLOSURE FROM 1300 EAST TO MILLCREEK	3	3	0						997,000
01301		2015-0168	IMPROVEMENTS TO JSL DUMP AT I-80	3	3	0						11,000
01301	5129235	2015-0606	JSL 4500 SOUTH TO OSAGE ORANGE DRIVE - CANAL BANK HYDRAULICS	3	3	0				20,000		
01301	5129249	2015-0149	NEW IRRIGATION CONDUIT ON HARVARD AVENUE	4	0	0			50,000		402,000	
01301	513000038	2016-0865	OIL SEPARATORS AND DRAINAGE SYSTEM FOR THE ARTESIAN SHOP	4	0	37,500		600,000				
01301		2016-1165	LOW FLOW CHANNEL AT SPENCER'S POND ( BIG COTTONWOOD CREEK)	4	0	0					300,000	
01301		2016-1284	1100 EAST DIVERSION STRUCTURE AT WILLINGTON	4	0	0						50,000
01301	5129232	2015-0602	JSL CANAL - MODIFY BIG SPILL TO HANDLE TEMPORARY PUMP	2	2	0					82,000	
01301		2016-1287	STUDY ON WELLS AT WALKER LANE AND FOUNTAIN BEAU	1	3	0						1,000,000
01301		2016-0749	J&SL DIVERSION STRUCTURE AT 2700 SOUTH	2	0	0						350,000
01301		2016-1286	3000 EAST WELL FOR WATER DELIVERIES	2	0	0						2,000,000
01301	5129242	2015-0153	PIPING DITCH ON JSL, OSAGE ORANGE AVENUE TO LINCOLN LANE	1	0	0						175,000
01301		2015-0160	DESPAIN IRRIGATION SYSTEM IMPROVEMENTS	3	3	0						17,000
01301		2015-0603	JSL CANAL/JORDAN RIVER STABILIZATION AT EAST JORDAN DUMP	4	4	0						406,000
01301		2018-1019	14600 SO. CANAL OVER FLOW STRUTURE	3	3	0						500,000
01301		2018-1080	3900SO STORM DRAIN OVER FLOW	2	4	0				50,000	250,000	
01301		2018-1082	LITTLE TANNER PIPE PROJECT	2	0	0						50,000
			REHABILITATION/REPLACEMENT OF JSL IN CITY LIMITS				50,000	50,000	50,000	50,000	50,000	
						\$ 271,878	\$ 1,455,000	\$ 1,411,500	\$ 1,433,000	\$ 1,485,000	\$ 1,439,000	\$ 5,706,000

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51-01301-	2730.04		<b>DEEP PUMP WELLS</b>									
01301	5132245	2015-0429	WELL ASSESSMENT AND UPGRADES	5	5	100,000	200,000	200,000	200,000	200,000	200,000	
01301	5132270	2015-0430	WELL BUILDING STRUCTURE UPGRADES	5	5	100,000	100,000	100,000	100,000	100,000	100,000	
01301	5132268	2015-0213	MP3.4 - 4TH AVENUE WELL ELECTRICAL IMPROVEMENTS	5	5	393,481	3,000,000					
01301	5132269	2015-0212	MP3.4 - 4TH AVENUE WELL/BRICK TANK IMPROVEMENTS	5	5	71,155						
01301	51322336	2015-0171	WELL TREATMENT PROJECT - 1500 EAST WELL	4	4	100,000	100,000					
01301		2016-0820	DYERS INN	4	4	0			550,000			
01301		2017-2071	DYER'S INN WELL FLUSH LINE	4	4	0			100,000			
01301		2016-0911	1300 E WELL CHLORINATION	3	4	0						400,000
01301		2015-0408	1300 EAST WELL FLUSH LINE	2	2	0			95,000			
01301	5132255	2015-0571	ARTESIAN WELL 2 REHAB	4	0	0						250,000
01301	5132249	2015-0565	19TH AND 27TH SOUTH WELL - VFD	3	0	0						60,000
01301	5132246	2015-0570	TREATMENT OF PCE AT WELLS	3	0	0						12,000,000
01301	5132241	2015-0569	RED BUTTE	2	0	0			2,500,000	60,000		2,500,000
01301	513223419		MT OLIVET IRRIGATION FEASIBILITY STUDY			3,464						
01301		2018-1038	4TH AVENUE WELL INSPECTION	4	2	0						40,000
01301		2018-1091	VAN WINKLE PROPERTY FENCE	1	5	0					20,000	
						\$ 768,100	\$ 3,400,000	\$ 300,000	\$ 3,545,000	\$ 360,000	\$ 320,000	\$ 15,250,000
51-01301-	2730.06		<b>STORAGE RESERVOIRS</b>									
01301	5134506	2017-1290	MOUNTAIN DELL RESERVOIR SEDIMENT SAMPLING AND BASIN PRE DESIGN	5	4	1,588						
01301	5134510		PARLEY'S DIVERSION STRUCTURE - IMPROVE BOOM DEPLOYMENT LOCATION	5	3	5,000						
01301	5134476		CHEVRON OIL SPILL PROTECTION PROJECT			3,000						
01301	5134458	2015-0155	REHABILITATION OF MOUNTAIN DELL DAM	5	4	853,333	2,165,000					
01301	5134455	2015-0167	RED PINE DAM REHABILITATION	5	4	30,000						484,000
01301	5134467	2015-0154	MOUNTAIN DELL RESERVOIR - BYPASS PIPE LITTLE DELL TO PARLEY'S	5	0	1,003,384						
01301	512450071	2017-2094	NEW ACTUATORS FOR THE PARLEY'S CREEK DIVERSION STRUCTURE	5	0	17,714						
01301	5134468	2015-0607	LITTLE DELL RESTORE PARLEY'S DIVERSION EXTERIOR COATING	4	4	4,725						
01301	5124512	2015-0209	REPLACE VALVES ON MT. DELL DAM	4	4	0						320,000
01301	512700001	2017-2080	REABILITATION OF THE LAKE MARY GAUGE	3	5	1,161						
01301	512700005	2016-1272	CECRET DAM REHABILITATION - DESIGN	4	3	32,525						2,000,000
01301	512700002	2017-2082	REPAIRS TO TWIN LAKES DAM GAUGE	3	4	1,545						
01301	512700003	2017-2079	REPAIRS AND IMPROVEMENTS TO RED BUTTE DAM ROAD	3	4	30,000						
01301	5134478	2015-0164	LITTLE DELL DAM - INSTALL NEW DRAINS ON THE PORTAL	3	3	0						27,000
01301		2016-1278	SECURITY CAMERAS AT LITTLE DELL	3	3	0						50,000
01301	5134457	2015-0166	NEW STAFF GAGE AT LITTLE DELL DAM	3	3	0						153,000
01301	5124509	2015-0451	STAIRS MT DELL DAM	2	3	0						75,000
01301		2015-0208	CONDUIT FROM DAM TO OLD ICB TO PLANT	2	2	0						20,000
01301	5134466	2015-0156	PARLEY'S CANYON HYDROPOWER PROJECT	1	0	0	100,000	900,000	200,000			
01301	512700006		LITTLE DELL PENSTOCK: PHASE 2			1,000,054						
01301		2018-1034	SPILL PROTECTION PROJECT - I-80 AT LAMB'S CANYON	5	0	0						240,000
01301		2018-1100	LAKE MARY DAM CREST REHABILITATION	5	5	0	20,000					100,000
01301		2018-1101	TWIN LAKES DAM GAUGE RELOCATION	3	4	0						20,000
01301		2018-1102	TWIN LAKE AND LAKE MARY OUTLET CHANNEL IMPROVEMENTS	5	5	0	15,000	50,000	50,000			
01301		2018-1103	PARLEY'S CANYON CONDUIT AND FIBER INSTALLATION	4	0	0	100,000					100,000
01301		2018-1104	TWIN LAKES DAM DRAIN CLEANOUT INSTALLATION	4	5	0	40,000					40,000
01301		2018-1105	TWIN LAKES AND LAKE MARY LOG BOOMS	3	5	0						10,000
01301		2018-1106	MOUNTAIN DELL DAM SPILLWAY REHABILITATION	5	4	0	100,000					100,000
01301		2018-1107	LITTLE DELL DAM RODENT ERADICATION	4	4	0	50,000					30,000
01301		2018-1108	LITTLE DELL DAM STAFF GAUGE	3	0	0						175,000
01301		2018-1109	CECRET LAKE FLOW METER AND TELEMETRY	4	0	0						60,000
						\$ 2,984,028	\$ 2,590,000	\$ 950,000	\$ 250,000	\$ -	\$ -	\$ 4,004,000

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51-01301-	2730.07		<b>DISTRIBUTION RESERVOIRS</b>									
01301	513444163	2017-2060	NEFF'S TANK OVERFLOW DRAIN	5	5	81,064						
01301	513444164	2017-2067	MARCUS RESERVOIR TANK UPGRADES	5	5	7,500						1,000,000
01301	513444161	2017-2074	EASTWOOD NORTH - INTERIOR COATING	5	5	128,632						
01301	513444162	2015-0527	FERGUSON TANK UPGRADE	5	5	14,511	150,000					
01301	513444166	2015-0573	AM - TANK AND RESERVOIR INSPECTIONS AND REPAIRS	5	5	100,000	100,000	100,000	100,000	100,000	100,000	100,000
01301	513444165	2015-0409	MOUNT OLYMPUS TANKS DRAIN/OVERFLOW STRUCTURE	5	4	72,580						
01301	5134507	2016-1171	FORT DOUGLAS IMPROVEMENTS/EXPANSION	5	4	163,424		4,000,000				1,500,000
01301	513444159	2015-0174	MILITARY RESERVOIR REPAIR	5	3	0						11,020,000
01301		2015-0406	EMIGRATION TUNNEL POWER	4	4	0						45,000
01301	513444168	2017-2111	TANNER RESERVOIR ROOF REPLACEMENT/FULL REPLACEMENT	4	4	6,800	100,000	1,000,000				
01301		2015-0719	DISTRIBUTION TANK AND RESERVOIR PAVING	4	4	0	80,000	80,000	80,000	80,000	80,000	
01301		2016-0753	BASKIN OVERFLOW/DRAIN GOOSENECK BOX	4	4	0			100,000			
01301		2017-2061	TETON TANKS SLOPE STABILIZATION	4	3	0		50,000				
01301		2015-0525	PERRY HOLLOW TANK	2	5	0	65,000					
01301	5134471	2015-0459	TANK PAINTING AND CORROSION CONTROL	3	3	100,000	200,000	200,000	200,000	200,000	200,000	
01301		2016-0935	ENSIGN DOWNS OVERFLOW	3	3	0						150,000
01301		2015-0516	MOUNT OLYMPUS TANKS & PUMP STATION BLACKTOP	2	4	0						25,000
01301		2015-0499	RAINER TANK	2	2	0						280,000
01301		2016-0917	ENSIGN DOWNS LOWER RESERVOIR MODIFICATIONS	2	2	0						200,000
01301		2015-0520	NORTH BENCH TANK ROAD	1	3	0						45,000
01301		2015-0526	VICTORY ROAD	1	3	0						22,000
01301		2016-0754	CAPITOL HILLS TANKS - TRUCK ACCESS	3	0	0						200,000
01301	513444167	2017-2121	TELFORD RESERVOIR SAFETY IMPROVEMENTS	1	2	1,234						
01301		2015-0528	NEFFS CANYON TANK	1	3	0						55,000
01301		2015-0529	EMIGRATION TANK UPGRADES	1	2	0						60,000
01301		2015-0530	TETON TANK UPGRADES	1	2	0						35,000
01301		2015-0458	MISCELLANEOUS REPAIRS	3	2	0			50,000			
01301		2017-2010	COVE TANK STABILIZATION PROJECT	2	3	0			200,000			
01301		2017-2012	TELFORD FENCE	3	0	0					30,000	
01301		2017-2013	EAST BENCH TANKS DRAIN LINE GOOSENECK	1	3	0					25,000	
01301		2017-2059	VICTORY ROAD TANK OVERFLOW DRAIN	4	4	0		50,000				
01301		2017-2064	CARRIGAN COVE TANK POWER	2	3	0				50,000		
01301		2017-2112	GRANITE OAKS/TELFORD RESERVOIR REPAIRS	3	3	0			50,000			
01301		2017-2118	GRANITE OAKS ACCESS ROAD	1	4	0			100,000			
01301		2018-1023	BASKIN RESERVOIR EFFLUENT PIPE	4	4	0		500,000				
01301		2018-1024	BASKIN ROOF REPLACEMENT	5	5	0	50,000					
01301		2018-1026	TANK AND RESERVOIR FALL PROTECTION SYSTEMS	5	0	0	100,000					
01301		2018-1031	MILITARY RESERVOIR - JOINT SEALANT REPAIR	5	4	0		20,000				
01301		2018-1032	MILITARY RESERVOIR - REPAIR INLET/OUTLET PIPE	5	4	0		50,000				
01301		2018-1033	MILITARY RESERVOIR CONDITION ASSESSMENT	5	4	0		20,000				
01301		2018-1092	FENCE 300 EAST GORDON LANE	1	4	0				5,000		
						\$ 675,745	\$ 845,000	\$ 6,070,000	\$ 880,000	\$ 435,000	\$ 435,000	\$ 14,737,000
51-01301-	2730.08		<b>DISTRIBUTION MAINS &amp; HYDRANTS</b>									
			<b>CITY, COUNTY, STATE AND MISC. DRIVEN PROJECTS</b>									
01301	513505272	2016-1233	WATER MAIN REPLACEMENT - 900 SOUTH	5	5	0	800,000					
01301	513505273	2016-0744	1300 EAST - WATER LINE	3	4	2,417,148						
01301	513505312	2015-0431	CITY/COUNTY/STATE DRIVEN PROJECTS	5	5	250,000	350,000	350,000	350,000	350,000	350,000	
01301		2016-1264	NW QUADRANT (DEVELOPMENT) PIPE UPSIZE	5	5	0						1,400,000
01301	513600099	2017-2056	ENERGY EFFICIENCY/RENEWABLE ENERGY CAPITAL IMPROVEMENTS	5	5	200,000	200,000	200,000	200,000	200,000	200,000	



**WATER UTILITY CIP BUDGET**  
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COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR SPENT 2018-19 (Calc'd from P6)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
01301	513505308	2015-0398	UPPER CONDUIT METER REPLACEMENT	4	5	50,000						
01301	513600097	2017-2014	MOTORS AT WORK	4	4	16,000						
01301	513505230	2015-0245	EAST INDIANA AVENUE (850 SOUTH) - REDWOOD RD TO SURPLUS	3	5	149,072	985,000					
01301	513505332		CITY CREEK WATER MAIN VAULT REMOVAL			25,000						
01301		2018-1081	STATE IPS RESOLUTIONS	4	4	0	20,000	20,000	20,000	20,000	20,000	
01301	513505334		STATE "BETTERMENT" PROJECT, WATER LINE CROSSING 5600 WEST AT 1100 SOUTH			0	72,600					
01301			STATE 1100 SOUTH, 5600 WEST TO LEGACY VIEW (ABOUT 5700 W)			0	25,000					
			700 WEST - 1600 SOUTH TO 2100 SOUTH				100,000					
			LOCAL STREET DISTRICT 1 & 7				200,000					
			800 WEST - 600 SOUTH TO 800 SOUTH				350,000					
			500 EAST - 1700 SOUTH TO 2100 SOUTH				950,000					
			2000 EAST - PARLEY'S TO CITY LIMIT				300,000					
			1900 EAST - WILMINGTON TO PARLEYS CANYON				250,000					
			900 SOUTH - 900 WEST TO 900 EAST				5,000,000					
			300 WEST - 600 SOUTH TO 2100 SOUTH				2,500,000					
			LOCAL STREETS DISTRICT 3 & 6					200,000				
			900 EAST - HOLLYWOOD TO 2700 SOUTH					340,000				
			100 SOUTH - NORTH CAMPUS DRIVE TO 900 EAST					390,000				
			1700 EAST - 1700 SOUTH TO 2700 SOUTH					60,000				
			LOCAL STREETS DISTRICTS 2 & 5						200,000			
			200 SOUTH - 400 WEST TO 900 EAST					4,000,000				
			1100 EAST HIGHLAND , RAMONA TO WARNOCK							1,000,000		
			LOCAL STREETS DISTRICT 4 & 7							200,000		
			1100 EAST - 900 SOUTH TO RAMONA							4,000,000		
			300 NORTH - 300 WEST TO 1000 WEST							1,500,000		
			W TEMPLE - NORTH TEMPLE TO 400 SOUTH								800,000	
			LOCAL STREETS 3 & 6								200,000	
			VIRGINIA STREET - SOUTH TEMPLE TO 11TH AVE								100,000	
			1300 EAST - 2100 SOUTH TO 3000 SOUTH									2,500,000
			2100 SOUTH - 700 EAST TO 1700 EAST									200,000
			LOCAL STREETS DISTRICT 1, 4 & 5									50,000
			GLADIOLA STREET - 900 SOUTH TO CALIFORNIA									2,000,000
			300 WEST - 400 SOUTH TO 900 SOUTH									150,000
			WAKARA WAY - FOOTHILL DRIVE TO CHIPETA WAY									
						\$ 3,107,220	\$ 12,102,600	\$ 1,560,000	\$ 4,770,000	\$ 7,270,000	\$ 1,670,000	\$ 6,300,000
			<b>WATER MAIN MISCELLANEOUS PROJECTS</b>									
01301	514500020	2015-0491	REGULATOR REPLACEMENT	5	5	20,000	300,000	300,000	300,000	300,000	300,000	
01301	513302118	2015-0493	NEW MAINLINE VALVES - COUNTY	5	5	138,000	138,000	138,000	138,000	138,000	138,000	
01301	513505311	2015-0489	NEW WATER LINES - CONTRIBUTIONS BY DEVELOPERS	5	5	500,000	500,000	500,000	500,000	500,000	500,000	
01301	513505310	2015-0490	FIRE HYDRANT REPLACEMENTS	5	5	400,000	400,000	400,000	400,000	400,000	400,000	
01301	513505309	2015-0492	NEW MAINLINE VALVES - CITY	5	5	262,000	262,000	262,000	262,000	262,000	262,000	
01301	513505304	2018-1002	UPPER CONUIT - LINE SYPHON	5	4	329,549	3,000,000					
01301	514500019	2016-0961	4TH AND A PRV	4	5	178,665						
01301		2016-0958	10TH AND B PRV	3	4	0		210,000				
01301		2016-0751	RECONNECTION OF 1700 SOUTH AND FOOTHILL UTILITIES	2	4	0			20,000			
01301	513600098	2017-2072	SAMPLING TAPS	3	3	50,000	10,000	10,000	10,000			
01301		2016-0923	SAM PARK INLET VAULT	3	3	0			35,000			
01301		2016-0959	10TH AND E PRV	3	3	0		210,000				
01301		2016-0960	8TH AND L PRV	3	3	0						210,000
01301		2016-0914	CONNECTIONS AT RR	4	0	0						440,000
01301	513600103		CORROSION CONTROL PROGRAM			47,653						
01301	514506		1000 EAST 500 SOUTH PRV			0	1,500,000					

**WATER UTILITY CIP BUDGET**  
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COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR SPENT 2018-19 (Calc'd from P6)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
						\$ 1,925,867	\$ 6,110,000	\$ 1,820,000	\$ 1,875,000	\$ 1,600,000	\$ 1,600,000	\$ 650,000
			<b>WATER MAIN REPLACEMENTS</b>									
01301	513505314		SMALL DIAMETER PIPE REPLACEMENT PROGRAM	5	5	250,000	250,000	250,000	250,000	250,000	250,000	
01301	513505203	2015-0247	600 WEST - 600 NORTH TO RAILROAD CROSSING	5	4	187,620						
01301	513505216		1000 NORTH - 1500 WEST TO REDWOOD ROAD	4	5	0	300,000					
01301	513302017	2015-0618	900 EAST AND 5600 SOUTH WATER MAIN REPLACEMENT	5	5	1,249				1,500,000		
01301	513302116	2016-0739	MILLCREEK WAY WATER MAIN REPLACEMENT	5	5	28,500	190,000					
01301	513505306	2017-2063	SCENIC DRIVE UPPER CONDUIT SLIPLINE PROJECT	5	5	0	300,000					3,000,000
01301	513505208	2015-0240	J STREET - SUNRISE AVENUE TO NORTHCREST DRIVE	5	4	492,260						
01301		2016-0921	BACKFEED FOR UTAH STATE CAPITOL	5	4	0		60,000				
01301		2016-1234	SHED AT EMIGRATION WELL	5	4	0			50,000			
01301	513505151	2015-0543	700 SOUTH - 300 WEST TO 700 WEST	5	4	0	630,000					
01301	513505156	2015-0233	200 SOUTH - 600 WEST TO JEREMY STREET	4	5	0	413,500					
01301	513505193	2015-0235	BECK STREET - 1805 NORTH TO 1180 NORTH	4	5	0						1,247,000
01301	513505207	2015-0252	3390 SOUTH - 700 EAST TO RIVIERA DRIVE	4	5	80,000	175,000					
01301	513504858	2015-0547	DULUTH AVE (1550 N) - 900 W TO DEXTER, 900 W - 1500 N TO DULUTH	4	5	1,688	175,000					
01301	513505130	2015-0549	FOOTHILL DRIVE - EMERSON AVE TO KENSINGTON AVE	4	5	0	105,000					
01301	513302047	2015-0617	MILLSTREAM DRIVE (3580 S) - MARDONNA WAY TO EASTWOOD DRIVE	4	5	0	274,000					
01301	513505133	2015-0624	1700 SOUTH - 1000 EAST TO 1100 EAST	4	5	0		160,000				
01301		2016-1230	17TH AND FOOTHILL TELEMETRY AND POWER	4	5	0			200,000			
01301		2015-0255	REDWOOD ROAD - 500 SOUTH TO 1050 SOUTH	4	5	0			918,000			
01301	513505212	2015-0253	PLEASANT VALLEY LINE	4	5	0						653,000
01301		2015-0254	CITY CREEK HIGHLINE	4	5	0						460,000
01301		2015-0554	SOUTH TEMPLE 1000 W.(GATSPY LINE)	5	3	0						415,000
01301	513505198	2015-0237	GREGSON AVENUE - 2465 EAST TO 2700 EAST	4	4	0						80,000
01301	513302089	2015-0238	2300 EAST - 6200 SOUTH TO 6400 SOUTH	4	4	0						268,000
01301	513505202	2015-0246	420 N MAIN STREET - 1" SERVICE REPLACEMENT - MAIN ST TO WALL ST	4	4	0						64,000
01301	513505125	2015-0260	WEST TEMPLE - 500 SOUTH TO 800 SOUTH (EAST SIDE)	4	4	0						469,000
01301	513505127	2015-0262	1000 WEST/1400 SOUTH WATER MAIN REPLACEMENT	4	4	0						560,000
01301		2017-2022	2880 SOUTH WATER MAIN REPLACEMENT	4	4	0						260,000
01301	513505197	2015-0236	800 SOUTH - 1200 EAST TO 1220 EAST	3	5	0						134,000
01301	513302039	2015-0613	OAK CREEK DRIVE - 8200 SOUTH TO END OF LINE	3	5	0						300,000
01301	513302045	2015-0616	MARDONNA WAY (3545 S) - SUNILAND DRIVE TO MILLSTREAM DRIVE	3	5	0						153,000
01301	513505128	2015-0620	WILTON WAY WATER MAIN REPLACEMENT	3	5	0						374,000
01301	513505129	2015-0621	1700 SOUTH - FOOTHILL TO WASATCH WATER MAIN REPLACEMENTS	3	5	0						257,000
01301	513505132	2015-0622	MILTON AVENUE (1595 SOUTH) - 1100 EAST TO 1200 EAST	3	5	0						179,000
01301		2017-2066	2700 E DEAD-END CONNECTION	3	5	0						20,000
01301		2016-0738	RELOCATE 12" CIP MAIN FROM UNDER HOUSE (EAST BENCH SUCTION LINE)	5	2	0						255,000
01301	513302090	2015-0239	COBBLECREST RD - 6380 S TO 2300 E; HAUN AVE - 2300 E TO COBBLECREST	4	3	0						411,000
01301		2015-0232	NORTH TEMPLE - 1800 WEST TO REDWOOD ROAD	4	3	0						156,200
01301	513505155	2015-0241	WESTMINSTER AVENUE - LAURELHURST (2550 EAST) TO FOOTHILL BOULEVARD (2600 EAST)	4	3	0						90,000
01301	513302038	2015-0258	BISCAYNE DR (2975 E) - BENGAL BLVD TO OAKVIEW CIR	4	3	0						158,000
01301	513505122	2015-0550	DUPONT AVE (1335 N) - AMERICAN BEAUTY DR TO 990 W	4	3	0						115,000
01301		2016-1228	REPLACE PRV'S - R11 AND R12	4	3	0						400,000
01301	513505205	2015-0249	SCOTT AVENUE - 700 EAST TO SCOTT PARK LANE	3	4	0						105,000
01301		2015-0400	R37. MAYWOOD REGULATOR	3	4	0						150,000
01301	513505134	2015-0625	BRYAN AVENUE (1565 SOUTH) - 900 EAST TO 1000 EAST	3	4	0						172,000
01301		2016-0889	CR1 PRV	3	4	0						225,000
01301		2016-0890	CR2 PRV	3	4	0						225,000
01301		2016-0891	HYDRANT 3300 SOUTH	3	4	0						40,000
01301		2016-0901	PRV E3-R49 REPLACEMENT	3	4	0						220,000
01301		2016-0910	HIGHLAND DRIVE REGULATORS	3	4	0						1,300,000

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01301		2016-0912	R73 REPLACEMENT	3	4	0						200,000
01301		2016-0913	CUP REGULATORS	3	4	0						300,000
01301		2016-0918	2300 EAST - CLAYBOURNE TO 3300 SOUTH	3	4	0						200,000
01301		2016-0934	PRV AT 17TH	3	4	0						210,000
01301		2016-1169	J STREET PIPELINE AND PRV REPLACEMENT	3	4	0						300,000
01301		2016-1273	NEW WATER MAIN - 1000 EAST	3	4	0						300,000
01301		2017-2062	ROXBURY PRV C46-R66	3	4	0						150,000
01301		2017-2065	CAMILLE ST. DEAD-END CONNECTION	3	4	0						20,000
01301		2016-1283	SUICIDE ROCK RUNAROUND	2	5	0						25,000
01301	513302117	2017-2069	CAP STUB AT 6200 SOUTH HOLLADAY BOULEVARD	3	3	2,250						
01301	513505124	2015-0619	BUCCANEER DRIVE WATER MAIN REPLACEMENT	3	3	0						151,000
01301		2016-0748	WATER VALVE REPLACEMENT PROJECT #3	2	4	0						100,000
01301	513505199	2015-0242	700 EAST - DRIGGS AVE (2370 S) TO WARNOCK AVE (2470 S)	1	5	0						257,000
01301		2015-0256	900 EAST HILLVIEW (4060 SOUTH) - REPLACE DIP MAIN UNDER SEWER	1	5	0						36,000
01301		2016-0756	300 WEST - 700 S TO 800 S	1	5	0						175,000
01301		2016-0892	KEARNS LINE REPLACEMENT	3	3	0						8,000,000
01301		2016-0900	R48 VALVE	3	3	0						20,000
01301		2016-0906	6-INCH ON 9TH	3	3	0						450,000
01301		2016-0915	SMITHS CONNECTION	3	3	0						70,000
01301		2016-0916	COUNTRY CLUB PRV	3	3	0						250,000
01301		2016-0933	MAYWOOD 6-INCH	3	3	0						220,000
01301		2016-0936	16-INCH VALVE VAULT	3	3	0						65,000
01301		2016-1222	PRV REPLACEMENT - A8-14	3	3	0						200,000
01301		2016-1231	NEW PRV - R73	3	3	0						200,000
01301		2016-1232	NEW PRV - R74	3	3	0						200,000
01301		2016-1235	POWER AT EMIGRATION TUNNEL	3	3	0						100,000
01301		2015-0399	RESEARCH PARK UPGRADE	5	0	0						410,000
01301		2016-0919	INSERTA VALVES	5	0	0						50,000
01301		2017-1299	EDWARD DRIVE REGULATED IMPROVEMENTS	5	0	0						500,000
01301		2017-2068	INDIAN ROCK PRESSURE ZONE REDUNDANT FEED	5	0	0						250,000
01301		2017-2070	HIGHLAND DR WATER MAIN - 6200 S TO DIAMOND HILLS LN	3	2	0						250,000
01301	513302046	2015-0615	SUNILAND DRIVE (3550 E) - MILLSTREAM LANE TO END OF SUNILAND CIRCLE	3	2	0						149,000
01301		2015-0426	FORT UNION AND HIGHLAND AVE INTERSECTION	2	3	0						302,500
01301		2017-2011	900 EAST FROM VAN WINKLE TO 5600 SOUTH	2	3	0						100,000
01301	513505204	2015-0248	500 SOUTH - 2130 WEST TO ORANGE STREET	4	0	0						315,000
01301	513302021	2015-0250	6200 SOUTH - 2900 EAST TO 3000 EAST	4	0	0						350,000
01301	513302058	2015-0544	SHORT HILLS DR (3375 E) - 8220 SOUTH TO 8315 SOUTH	4	0	0						55,000
01301		2015-0397	SUICIDE ROCK VAULT	2	2	0						100,000
01301		2016-0925	2700 E CONNECTION	2	2	0						60,000
01301		2015-0480	1700 EAST FROM FT UNION BLVD (6935 S) TO 7080 SOUTH	1	3	0						360,000
01301	513302059	2015-0548	3900 SOUTH - 900 EAST TO 940 EAST	3	0	0						130,000
01301		2015-0586	PARLEY'S CANYON BLVD 1700 EAST TO 1800 EAST	3	0	0						181,000
01301	513505166	2015-0626	400 EAST - 1497 SOUTH TO 1530 SOUTH	3	0	0						37,000
01301	513505167	2015-0627	1400 EAST - GILMER AVENUE TO YALE AVENUE	3	0	0						32,000
01301		2016-0957	MORRIS PUMP STATION	3	0	0						600,000
01301		2016-1168	KEARNS VALVE	3	0	0						30,000
01301		2015-0413	700 NORTH 8" AC	2	1	0						115,000
01301		2015-0641	LITTLE COTTONWOOD CREEK CEMENT CAP 4"	1	2	0						35,000
01301		2015-0407	2200 WEST WATER MAIN EXTENSION	1	0	0						255,000
01301	514000040		ASPHALT PATCHING 2018			30,000						
01301		2018-1096	CHEYENNE STREET WATER LINE REPLACEMENT	3	4	0			50,000			
01301		2016-0856	7000 SOUTH SAND TRAP AND SCREEN REMOVAL	5	5	0		20,000				
01301		2018-1041	UPPER BOUNDARY SPRINGS EFFLUENT LINE REPLACEMENT FROM SPRING BOX TO TANK	4	5	0		500,000				
01301		2017-2018	DULUTH AVE AND 900 WEST WATER MAIN REPLACEMENT	3	5	0	325,000		400,000			

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01301		2017-2110	DEVELOPER DRIVEN PROJECTS	4	4	0	100,000					
01301		2018-1079	2100 SOUTH, 700 EAST TO 1300 EAST, WATER LINE REPLACEMENT	3	4	0		1,800,000				
01301		2018-1089	EAST BENCH SUCTION LINE RELOCATION	4	2	0			96,400			
						\$ 1,073,567	\$ 3,237,500	\$ 2,790,000	\$ 1,964,400	\$ 1,750,000	\$ 250,000	\$ 29,780,700
			<b>MASTER PLAN PROJECTS</b>									
01301	513416337	2015-0629	MP3.16 - NORTH BENCH PUMP STATION	5	5	15,065			1,500,000			
01301	513505088	2015-0217	CITY CREEK TREATMENT LINE TO MORRIS RESERVOIR	5	4	0	80,000		800,000			
01301	513302020	2015-0230	3RD EAST PHASE II - MARCUS TO ARTESIAN BASIN	4	4	266,503	4,000,000					
01301	51360062	2015-0632	MP2.3 - WASTEWATER REUSE	4	3	0						23,000,000
01301	513505116	2015-0633	MILLCREEK TREATMENT PLANT LINE - TANK TO WASATCH BLVD (24")	4	3	0						750,000
01301	513416327	2015-0218	MP 3.5B - 16" PIPELINE ON NEWPORT WAY/NANTUCKET DRIVE	4	2	0						394,000
01301	513302063	2015-0224	MP 3.5A - 12" PIPELINE ON HIGHLAND DR (6200 S HIGH ZONE)	3	3	0						317,000
01301		2015-0229	MP 3.17 - 8" LOOP AT 2200 WEST/2200 NORTH	5	0	0						948,000
01301	513505159	2015-0222	MP3.14 - AUXILIARY POWER - GOLDEN HILLS	5	0	0						45,000
01301	513505168		CAPITOL HILL TO ENSIGN DOWNS PIPELINE	4	0	0						5,000,000
01301	513302062	2015-0219	MP3.9 - NEW PUMP STATION - TETON TO MT. OLYMPUS/4500 SOUTH HIGH - IF	4	0	0						695,000
01301	513302061	2015-0220	MP3.6B - 12" PIPELINE ON BRIGHTON WAY	4	0	0						200,000
01301	513505117	2015-0221	MP3.5C - 16" PIPELINE ON BENGAL BOULEVARD	4	0	0						1,134,000
01301	513505098	2015-0225	MP3.1A - EAST-WEST CONVEYANCE LINE - PARK RESERVOIR TO SUGARHOUSE PARK	4	0	299,181	10,000,000	10,000,000				
01301		2015-0231	MP 3.8C - VICTORY ROAD - ENSIGN DOWNS PHASE II - IF	4	0	0						2,250,000
01301	5134493	2015-0634	MP3.1B - EAST WEST CONVEYANCE LINE - SUGARHOUSE PARK TO 900 WEST	4	0	0						7,000,000
01301	5134464	2015-0227	MP3.7 - ADD THROTTLING CONTROL VALVE INTO WILSON RESERVOIR	3	0	0						150,000
01301		2015-0538	MP 3.12A - 7800 SOUTH PRESSURE ZONE - 4.3 MG RESERVOIR	2	0	0						3,000,000
01301	51360060	2015-0636	MP2.1 - DEVELOP ADDITIONAL GROUND WATER SOURCES	2	0	0						18,000,000
01301	513505169	2015-0630	MP2.2 - ADDITIONAL SURFACE WATER DEVELOPMENT	2	0	0						12,000,000
01301	51360061	2015-0635	MP3.1C - EAST WEST CONVEYANCE LINE - 900 WEST TO 3400 WEST (PHASE 3)	1	0	0						12,000,000
01301		2015-0631	MILLCREEK WATER TREATMENT FACILITY	1	0	0						80,000,000
01301			UPDATE WATER MASTER PLAN			0			400,000			
						\$ 580,749	\$ 14,080,000	\$ 10,000,000	\$ 2,700,000	\$ -	\$ -	\$ 166,883,000
			<b>TOTAL DISTRIBUTION MAINS &amp; HYDRANTS</b>			\$ 6,687,404	\$ 35,530,100	\$ 16,170,000	\$ 11,309,400	\$ 10,620,000	\$ 3,520,000	\$ 203,613,700
			<b>2730.09 WATER SERVICE CONNECTIONS</b>									
03301	513900116	2015-0534	2700 EAST - RELOCATE SERVICE CONNECTIONS	3	3	7,227						
01701	513900126	2015-0494	SERVICE LINE REPAIR/REPLACEMENTS	5	5	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	
03301	513900125	2015-0495	NEW SERVICE CONNECTIONS	5	5	400,000	400,000	400,000	400,000	400,000	400,000	
02201	513900124	2015-0496	LARGE METER REPLACEMENTS	5	5	400,000	400,000	400,000	400,000	400,000	400,000	
02601	513900123	2015-0498	METER REPLACEMENT PROGRAM	5	5	200,000	200,000	200,000	200,000	200,000	200,000	
	513900120		AMI TOWERS - CITY	4	0	97,219						
	513900121	2017-2122	AMI TOWERS - COUNTY	4	0	123,711						
	513900122	2017-2126	AMI METER REPLACEMENT PROGRAM	1	0	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	
						\$ 6,128,156	\$ 5,900,000	\$ 5,900,000	\$ 5,900,000	\$ 5,900,000	\$ 5,900,000	\$ -
			<b>2730.20 LANDSCAPING</b>									
			<b>WATERSHED</b>									
00601	5122672	2017-1295	RECREATION AREA PICNIC TABLE REPLACEMENT	5	5	3,750						
00601	5122673	2015-0670	ACCESSIBILITY UPGRADES TO WATERSHED RECREATION FACILITIES	5	0	38,069		200,000		200,000		
	512627466	2017-2032	SILVER LAKE RESTROOM DEMOLISH AND REPLACE	5	5	290,784						

**WATER UTILITY CIP BUDGET**  
**Five Year Projected Budget FY2020-2024**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR SPENT 2018-19 (Calc'd from P6)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
00601	512627463	2017-1296	BIG COTTONWOOD CANYON PARK & RIDE RESTROOM REBUILD	5	5	0		500,000				
	514700004	2017-2117	CITY CREEK ROADWAY ASPHALT	5	5	0	100,000	100,000				
03201	51360014	2015-0519	WEST TEMPLE CAMPUS - CONSERVATION IMPROVEMENTS	2	4	11,250						
		2018-1028	CITY CREEK CANYON ROAD RECONSTRUCTION	5	5	0			500,000	1,000,000	1,000,000	1,000,000
		2018-1110	SITE 30 PAVILION STRUCTURAL REVIEW	2	4	0	20,000					
			CITY CREEK WATER SYSTEM TO SITES 23 THROUGH 30									500,000
						\$ 343,852	\$ 120,000	\$ 800,000	\$ 500,000	\$ 1,200,000	\$ 1,000,000	\$ 1,500,000
			<b>TOTAL CAPITAL IMPROVEMENTS</b>			\$ 24,629,211	\$ 59,255,100	\$ 53,501,500	\$ 38,542,400	\$ 42,350,000	\$ 29,914,000	\$ 596,995,700

**WATER UTILITY CAPITAL PURCHASES BUDGET**  
**Five Year Projected Budget FY2020-2024**

COST CENTER	OBJECT CODE	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	Comments	CRITICALITY RATING	CONDITION RATING	PAST YEAR BUDGET 2018-19	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
	2710.10			<b>LAND</b>										
5103301	2710.10		2015-0427	WATERSHED PROPERTY		5	0		1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
5103301	2710.10		2015-0481	1811 WEST 500 SOUTH		5	5							
5103301	2710.10			2668 EAST COMANCHE DRIVE										
5103301	2710.10			983 N PINECREST CANYON ROAD EMIGRATION CANYON										
5103301	2710.10		2015-0172	MP 3.8C - VICTORY ROAD - ENSIGN DOWNS PHASE II - PF		4	0	590,737						
								\$ 590,737	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000
	2710.30			<b>WATER RIGHTS &amp; SUPPLY</b>										
5103301	2710.30			2,552 SHARES HILL DITCH @ \$475				1,212,200						
5103301	2710.30			Various				30,000	30,000	30,000	30,000	30,000	30,000	
5103301	2710.30		2015-0488	56 SHARES UPPER CANAL IRRIGATION @ \$400		2	2	22,400						
								\$ 1,234,600	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ -
	2750.10		Replace No.	<b>AUTOMOBILES &amp; TRUCKS</b>										
5100101	2750.10		New	Ford F550 1 Ton C&C w/Bed Cost Center				49,000						
5100601	2750.10		31136	CHEVROLET 3/4 TON PICK-UP TRUCK				28,961						
5100601	2750.10			2019 F350 CHASSIS XL 4X4 SD				31,640						
5100601	2750.10			SNOW PLOW				4,908						
5100601	2750.10			RUGBY DUMP BODY				7,858						
5100701	2750.10			UTV - Brutis				29,007						
5100701	2750.10			FORD F-350 CREW CAB 4X4 SHORT BED				31,299						
5100701	2750.10			SNOW PLOW				4,520						
5100701	2750.10			SALT SPREADER				4,804						
5100801	2750.10		31117	GMC 3/4 Ton Cab-n-Chassis Flat Bed to Plow				44,195						
5101301	2750.10		31068	ESCAPE SUV 4X4				22,507						
5101301	2750.10			INSPECTION VEHICLES (2)				60,575						
5101301	2750.10			2018 FORD FOCUS ELECTRIC 4DR				28,287						
5101401	2750.10		31016	Chevrolet 3/4 Ton Pick-up Truck w/ Lift Gate				37,831						
5101401	2750.10		31005/31006/31009	3/4 P U/ replace w/1/4 Ton Pick-up 2wd (3)				66,483						
5101401	2750.10		31095/31096	3/4 Ton Cab-n-Chassis w/Util. Bed 4wd ext Cab (2)				68,780						
5101601	2750.10		31112	REPLACEMENT FOR SURVEY VEHICLE 31112 Sell				57,922						
5101601	2750.10		31130	GMC 1/4 TON PICK-UP TRUCK				24,230						
5101701	2750.10		31115/31116/NEW	INTERNATIONAL V&H TRUCKS 7400 4X2 (3)				439,158						
5101701	2750.10		New	Freightliner Dump Truck				138,378						
5101701	2750.10		New	Escape SUV				22,507						
5101801	2750.10		31134	GMC Canyon				28,961						
5102101	2750.10		31082	CHEVROLET 1/4 TON PICK-UP TRUCK				22,161						
5102601	2750.10		31128	GMC 3/4 Ton Pick-up Truck				29,637						
5102601	2750.10		New	GMC 1 Ton Pick-up Truck				36,515						
5102801	2750.10		36960	GMC 1/4 TON PICK-UP TRUCK				28,961						

**WATER UTILITY CAPITAL PURCHASES BUDGET  
Five Year Projected Budget FY2020-2024**

COST CENTER	OBJECT CODE	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	Comments	CRITICALITY RATING	CONDITION RATING	PAST YEAR BUDGET 2018-19	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
5101301	2750.10			CHEV OR SIMILAR MID-SIZED 4X4 PICK UP W/	Jason				30,000					
5101301	2750.10			CHEV OR SIMILAR MID-SIZED 4X4 PICK UP W/	Jason				30,000					
5102601	2750.10		31128	4X4 1/2 TON VXU W/CAMPER SHELL					27,000					
5102601	2750.10		31146	1/4 TON					25,000					
5102601	2750.10		36950	1 TON NON-DUMPING FLAT BED					37,000					
5102601	2750.10		31204	CHEVY COLORADO 4WD					29,500					
5100901	2750.10		31281	FORD F-150 4WD	Marian				35,000					
5101801	2750.10		31134	COLORADO 4WD	Marian				30,000					
5101801	2750.10		31177	CHEVY COLORADO 4WD	Marian				30,000					
5100701	2750.10		NEW	1/4 TON 4WD, EXTENDED CAB, POWER WIND	Marian				30,000					
5100601	2750.10		NEW	1/4 TON 4WD, EXTENDED CAB, POWER WIND	Marian				30,000					
5100601	2750.10		NEW	1/4 ton, 4-wheel Drive, extended cab, power wind	Marian				40,000					
5100101	2750.10		31087	Replace Ford F250, State contract	Randy				41,500					
5100101	2750.10		3703	John Deere 5100M W/Mower	Randy				79,265					
5102301	2750.10			VARIOUS						1,000,000	1,000,000	1,000,000	1,000,000	
								1,349,084	494,265	1,000,000	1,000,000	1,000,000	1,000,000	-
	<u>2750.30</u>			<b>FIELD MAINT EQUIPMENT - MOTIVE</b>										
5100101	2750.30			Link Belt 160 x 4 Excavator				180,000						
5100101	2750.30			S550 Slide in Ass'y (Masport H XL3 Direct Drive) Alum				11,161						
5101701	2750.30			Case Backhoe				92,616						
5101701	2750.30			BACKHOE EXCHANGE PROGRAM				81,000						
5101701	2750.30			Backhoe Trailer				28,375						
5102101	2750.30			Hyster Fork Lift				43,981						
5102201	2750.30			Interstate 50tdc Trailer				28,375						
5102301	2750.30			VARIOUS				95,500		50,000	50,000	50,000	50,000	
5102601	2750.30			HANDHELD READING UNITS (2)	Audree				17,232					
5101601	2750.30		31148	CHEVY/GMC 4X4 EXT CAP	Nick				30,000					
5101601	2750.30		31149	CHEVY/GMC 4X4 EXT CAP	Nick				30,000					
5101601	2750.30		31150	CHEVY/GMC 4X4 EXT CAP	Nick				30,000					
5101401	2750.30		80564	SKAGG SVR11-36A-19FX	Jason/Randy				9,550					
5100101	2750.30		NEW	CAT/WHEELER BUCKET - DC 60" DITCH	Jason/Randy				5,400					
5101601	2750.30			KUBOTA BX235 Mini-Tractor	Marian				25,000					
5101601	2750.30			Winter Tractor	Marian				28,000					
								561,008	175,182	50,000	50,000	50,000	50,000	-
	<u>2760.10</u>			<b>PUMP PLANT EQUIPMENT</b>										
5100801	2760.10			CLEAR WATER AND AREA DRAIN PUMPS				40,000						
5100801	2760.10			REPLACE EXISTING LMI CHEMICAL FEED PUMPS				9,537						

**WATER UTILITY CAPITAL PURCHASES BUDGET**  
**Five Year Projected Budget FY2020-2024**

COST CENTER	OBJECT CODE	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	Comments	CRITICALITY RATING	CONDITION RATING	PAST YEAR BUDGET 2018-19	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
5100801	2760.10			REPLACE VALVING MAINFOLD IN PUMP HOUSE				100,000						
5100901	2760.10			EQUALIZATION PUMP				19,455						
5100901	2760.10			WASTEWATER RETURN PUMP				13,492						
5101301	2760.10			VARIOUS				50,000	50,000	50,000	50,000	50,000	50,000	
								232,484	50,000	50,000	50,000	50,000	50,000	-
	<u>2760.20</u>			<b>TREATMENT PLANT EQUIPMENT</b>										
5100701	2760.20			FLOC BUSHING		4	4	30,000						
5100701	2760.20	5122631		SECURITY FENCE FOR SLUDGE BEDS/BACKWASH TANK		3	3	75,000						
5100701	2760.20	5122632		SECURITY FENCING FOR BACK OF PLANT		3	3	40,000						
5100701	2760.20			REPLACEMENT PARTICLE COUNTERS				24,000						
5100701	2760.20			TURBIDITY METERS				35,000						
5100701	2760.20			ON-DEMAND HOT WATER HEATERS										
5100801	2760.20			DR 6000-PHOTANALYZER (UV BULB)				8,000						
5100801	2760.20			CHLORINE ANALYZER				8,000						
5100801	2760.20			HEADLOSS METER				13,300						
5100801	2760.20	18		BACK-UP WATER SUPPLY FROM CLEARWELL TO HIGH PRESSURE TANK										
5100801	2760.20	5124508		PARLEY'S TP - REPLACE ALL POST STORAGE TANK HYP		1	1							
5100801	2760.20			DR 6000-PHOTOANALYZER (UV BULB)				8,000						
5100801	2760.20			CHLORINE ANALYZER				8,000						
5100801	2760.20			HEADLOSS METER				13,300						
5100801	2760.20			FLYGT 4" SUBMERSIBLE PUMP MODEL CP3102.090				13,910						
5100901	2760.20			HYDRAMATIC SUBMERSIBLE SOLIDS HANDLING PUMP				13,910						
5100901	2760.20			FLOC BUSHING		4	4	30,000						
5100901	2760.20			CAMERA UPGRADE BIG COTTONWOOD										
5100901	2760.20			ONLINE TURBIDITY METER				70,000						
5101301	2760.20			VARIOUS				100,000		100,000	100,000	100,000	100,000	
5100801	2760.20			SURFACE WASH PUMP	Marian				60,000					
								490,420	60,000	100,000	100,000	100,000	100,000	-
	<u>2760.30</u>			<b>TELEMETRY EQUIPMENT</b>										
5101501	2760.30			MISCELLANEOUS WATER TELEMETRY 2018/2019				50,000	50,000	50,000	50,000	50,000	50,000	
5101501	2760.30			Telemetry Equipment - Water Ongoing				50,000						
5101501	2760.30			CCTV Recorder - Dispatch				10,000						
5101501	2760.30	2017-1308		INSTALLATION OF NEW SNOW GAUGING STATIONS		4	0	60,000						
5100201	2760.30			TELEMETRY FOR TWIN LAKES										
								170,000	50,000	50,000	50,000	50,000	50,000	-
	<u>2760.50</u>			<b>OFFICE FURNITURE &amp; EQUIPMENT</b>										
5103201	2760.50			SOFTWARE UPGRADE BILLING SYSTEM				30,000	30,000	30,000	30,000	30,000	30,000	
5101301	2760.50			Full Function Printer replacement "Engineering"				5,765						
5103301	2760.50			Full Function Printer replacement "Contracts"				5,765						
	<u>2760.90</u>			<b>OTHER NON-MOTIVE EQUIPMENT</b>				41,530	30,000	30,000	30,000	30,000	30,000	-







**Sewer Utility- Budget Summary and Cash Flow**

**SEWER UTILITY  
ENTERPRISE FUND  
BUDGET SUMMARY  
FY 2020-22**

<b>SOURCES</b>	<b>ACTUAL 2017-18</b>	<b>AMENDED BUDGET 2018-19</b>	<b>PROJECTED ACTUAL 2018-19</b>	Rate Increase 18%	Rate Increase 18%	Rate Increase 18%
				<b>PROPOSED BUDGET 2019-20</b>	<b>FORECAST BUDGET 2020-21</b>	<b>FORECAST BUDGET 2021-22</b>
<b>REVENUES</b>						
METERED SALES	\$ 33,620,751	\$ 37,677,666	\$ 37,677,666	\$ 44,460,000	\$ 52,838,000	\$ 62,791,000
INTEREST INCOME	1,579,221	1,052,000	\$ 1,052,000	604,000	23,000	29,000
OTHER REVENUES	659,888	235,000	\$ 235,000	235,000	235,000	235,000
<b>TOTAL REVENUES</b>	<b>\$ 35,859,860</b>	<b>\$ 38,964,666</b>	<b>\$ 38,964,666</b>	<b>\$ 45,299,000</b>	<b>\$ 53,096,000</b>	<b>\$ 63,055,000</b>
<b>OTHER SOURCES</b>						
IMPACT FEES	971,344	700,000	\$ 700,000	700,000	724,500	749,858
GRANTS & OTHER RELATED REVENUES	978,525	2,020,000	\$ 2,020,000	2,020,000	2,020,000	720,000
OTHER SOURCES	2,845	20,000	\$ 20,000	20,000	20,000	20,000
STATE LOAN (NWQ)	-	-	\$ -	-	-	-
NON BOND FINANCING	8,500,000	4,000,000	\$ -	-	67,429,000	85,926,000
BOND PROCEEDS	-	-	\$ -	55,307,000	39,218,000	97,542,000
<b>TOTAL OTHER SOURCES</b>	<b>\$ 10,452,714</b>	<b>\$ 6,740,000</b>	<b>\$ 2,740,000</b>	<b>\$ 58,047,000</b>	<b>\$ 109,411,500</b>	<b>\$ 184,957,858</b>
<b>TOTAL SOURCES</b>	<b>\$ 46,312,574</b>	<b>\$ 45,704,666</b>	<b>\$ 41,704,666</b>	<b>\$ 103,346,000</b>	<b>\$ 162,507,500</b>	<b>\$ 248,012,858</b>
<b>EXPENSES &amp; OTHER USES</b>						
<b>EXPENDITURES</b>						
PERSONNEL SERVICES	\$ 8,486,161	\$ 10,375,345	\$ 10,375,345	\$ 11,164,232	\$ 11,610,802	\$ 12,075,232
OPERATING & MAINTENANCE	1,406,164	1,934,720	1,934,720	2,109,430	2,151,219	2,194,242
TRAVEL & TRAINING	48,179	86,900	86,900	118,425	120,794	123,209
UTILITIES	852,935	980,070	980,070	994,970	1,014,869	1,035,166
TECHNICAL SERVICES	1,831,306	3,291,348	3,291,348	3,151,533	3,327,843	3,394,400
DATA PROCESSING	381,234	280,000	280,000	395,000	402,900	410,958
FLEET MAINTENANCE	568,447	543,000	543,000	543,000	553,860	564,937
ADMINISTRATIVE SERVICE FEE	306,260	275,000	275,000	311,000	317,220	323,564
PAYMENT IN LIEU OF TAXES	306,525	368,250	368,250	661,263	674,488	687,978
BILLING COST	813,896	813,896	813,896	827,634	844,187	861,071
RISK MANAGEMENT	303,564	308,500	308,500	260,324	265,530	270,841
TRANSFERS TO GENERAL FUND	-	20,000	20,000	-	-	-
OTHER CHARGES AND SERVICES	50,100	148,588	148,588	487,353	496,676	506,611
<b>TOTAL EXPENDITURES</b>	<b>\$ 15,354,771</b>	<b>\$ 19,425,617</b>	<b>\$ 19,425,617</b>	<b>\$ 21,024,164</b>	<b>\$ 21,780,388</b>	<b>\$ 22,448,209</b>
<b>OTHER USES</b>						
CAPITAL OUTLAY	847,714	5,946,500	1,302,569	8,694,000	823,000	823,000
CAPITAL IMPROVEMENT BUDGET	33,243,806	116,640,041	60,892,051	98,370,500	125,728,000	210,160,000
COST OF DEBT ISSUANCE	7,200	15,000	-	307,000	218,000	542,000
DEBT SERVICES	5,554,277	6,058,000	6,050,603	13,149,000	13,399,000	13,776,000
<b>TOTAL OTHER USES</b>	<b>\$ 39,652,997</b>	<b>\$ 128,659,541</b>	<b>\$ 68,245,223</b>	<b>\$ 120,520,500</b>	<b>\$ 140,168,000</b>	<b>\$ 225,301,000</b>
<b>TOTAL USES</b>	<b>\$ 55,007,768</b>	<b>\$ 148,085,158</b>	<b>\$ 87,670,840</b>	<b>\$ 141,544,664</b>	<b>\$ 161,948,388</b>	<b>\$ 247,749,209</b>
<b>EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES</b>	<b>\$ (8,695,194)</b>	<b>\$ (102,380,492)</b>	<b>\$ (45,966,174)</b>	<b>\$ (38,198,664)</b>	<b>\$ 559,112</b>	<b>\$ 263,649</b>
<b>OPERATING CASH BALANCES</b>						
BEGINNING JULY 1	\$ 94,916,245	\$ 86,221,051	\$ 86,221,051	\$ 40,254,877	\$ 2,056,213	\$ 2,615,325
ENDING JUNE 30	\$ 86,221,051	\$ (16,159,441)	\$ 40,254,877	\$ 2,056,213	\$ 2,615,325	\$ 2,878,974
Cash Reserve Ratio	562%	-83%	207%	10%	12%	13%
<b>Cash reserve goal above 10%</b>						

**SEWER UTILITY**  
**Cash Flow**  
**FY20 Budget**  
**and FY2020-2024 Forecast**

+18%, 18%, 18%, 15%, 10% rates  
 \$259M in WIFIA Funds  
 \$283M in Bonds, \$55M, \$39M, \$97M, \$65M \$27M  
 100% CIP FY 20-24  
 New Debt Pmts \$44.9M FY 20-24

	ACTUAL YEAR 2017-2018	PROJECTED YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-2023	BUDGET YEAR 2023-24
SEWER SALES	\$33,620,751	\$37,677,666	\$44,460,000	\$52,838,000	\$62,791,000	\$72,718,000	\$80,548,000
OTHER INCOME	662,733	255,000	255,000	255,000	255,000	255,000	255,000
INTEREST INCOME	1,579,221	1,052,000	604,000	23,000	29,000	31,000	30,000
OPERATING INCOME	35,862,705	38,984,666	45,319,000	53,116,000	63,075,000	73,004,000	80,833,000
NEW PLANT O&M COSTS			0	0		(250,000)	(252,500)
OPERATING EXPENSES	(15,354,771)	(19,425,617)	(21,024,164)	(21,780,388)	(22,448,209)	(23,138,679)	(23,852,612)
NET INCOME EXCLUDING DEP.	20,507,934	19,559,049	24,294,836	31,335,612	40,626,791	49,615,321	56,727,888
IMPACT FEES	971,344	700,000	700,000	724,500	749,858	776,103	803,267
STATE LOAN (NWQ)	8,500,000						
SHORT TERM FINANCING PROCEEDS							
WIFIA LOAN				67,429,000	85,926,000	65,057,000	31,865,000
NET BOND PROCEEDS	-		55,000,000	39,000,000	97,000,000	65,000,000	27,000,000
ISSUE COSTS (PROCEEDS)			307,000	218,000	542,000	363,000	151,000
ISSUE COSTS (EXP)	(7,200)		(307,000)	(218,000)	(542,000)	(363,000)	(151,000)
OTHER CONTRIBUTIONS	978,525	2,020,000	2,020,000	2,020,000	720,000	520,000	520,000
CAPITAL OUTLAY	(847,714)	(1,302,569)	(8,694,000)	(823,000)	(823,000)	(823,000)	(823,000)
STATE LOAN DEBT REPAYMENT			(6,375,000)	(2,125,000)			
NEW DEBT SERVICE			(719,000)	(2,700,000)	(5,216,000)	(9,091,000)	(12,731,000)
DEBT SERVICE	(5,554,277)	(6,050,603)	(6,055,000)	(8,574,000)	(8,560,000)	(8,561,000)	(8,935,850)
OTHER INCOME & EXPENSE	4,040,678	(4,633,172)	35,877,000	94,951,500	169,796,858	112,878,103	37,698,417
GENERATED FOR CAPITAL	24,548,612	14,925,877	60,171,836	126,287,112	210,423,649	162,493,424	94,426,305
CAPITAL IMPROVEMENTS	(33,243,806)	(60,892,051)	(98,370,500)	(125,728,000)	(210,160,000)	(162,630,000)	(94,660,000)
CASH INCREASE/(DECREASE)	(8,695,194)	(45,966,174)	(38,198,664)	559,112	263,649	(136,576)	(233,695)
BEGINING CASH BALANCE	94,916,245	86,221,051	40,254,877	2,056,213	2,615,325	2,878,974	2,742,398
CASH INCREASE/(DECREASE)	(8,695,194)	(45,966,174)	(38,198,664)	559,112	263,649	(136,576)	(233,695)
ENDING BALANCES	86,221,051.00	40,254,877.00	2,056,213	\$2,615,325	\$2,878,974	\$2,742,398	\$2,508,703
RESTRICTED/RESERVED	(10,789,378)						
AVAILABLE ENDING BALANCE	\$75,431,673	\$40,254,877	2,056,213	\$2,615,325	\$2,878,974	\$2,742,398	\$2,508,703
<b>RATE CHANGE</b>	<b>30%</b>	<b>15%</b>	<b>18%</b>	<b>18%</b>	<b>18%</b>	<b>15%</b>	<b>10%</b>
Cash Reserve Ratio	562%	207%	10%	12%	13%	12%	10%
Debt Service Coverage	3.69	3.23	3.59	2.78	2.95	2.81	2.62
DEBT SERVICE % OF GROSS OPERATING REV	15%	16%	15%	21%	22%	24%	27%
MONTHLY RESIDENTIAL UTILITY BILL AT 4 CC	10.60	12.16	14.68	17.32	20.44	23.51	25.86
MONTHLY RESIDENTIAL UTILITY BILL AT 8 CC	21.20	24.32	29.36	34.64	40.88	47.01	51.71

**SEWER UTILITY CIP BUDGET**  
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COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR SPENT 2018-19 (Calc'd from P6)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
	<u>2720.10</u>		<b>MAINTENANCE &amp; REPAIR SHOPS - 2720.10</b>									
		2016-0956	LIFT STATION STORAGE FACILITY	4	0	0			350,000			
						0	0	0	350,000	0	0	0
	<u>2720.05</u>		<b>LIFT STATIONS - 2720.05</b>									
			<b>LIFT STATION ASSET MANAGEMENT PROGRAM</b>									
10101	524907096		ANNUAL SYSTEM WIDE LIFT STATION SCOPING & ASSET MANAGEMENT PRIORITIZATION	5	5	200,000	200,000	200,000	80,000	80,000	80,000	320,000
			<b>LIFT STATION RENEWAL/REPLACEMENT PROGRAM</b>									
	52490788		LIFT STATION CONDITION ASSESSMENT (TASK ORDER 2.18)			10,938						
10101	524907095	2015-0414	ANNUAL PUMP REPLACEMENT (VARIOUS)	5	5	25,000	25,000	25,000	50,000	50,000	50,000	200,000
	52490758	2015-0266	4000 WEST LIFT STATION UPGRADE/REPLACEMENT (SS12)	5	5	911,983						
10101	52490780	2015-0263	1700 NORTH LIFT STATION REHABILITATION (SS03)	4	5	299,998						
10101		2017-1301	5300 WEST LIFT STATION (SS17) CAPACITY IMPROVEMENTS	4	5	0	75,000	430,000				
10101	52490778	2015-0264	SOUTH LIFT STATION (SS05)	3	4	0			65,000	365,000		
10101		2015-0417	INDUSTRIAL LIFT STATION REHAB & PIPING UPGRADES (SS21)	4	5	0	70,000	710,000				
10101		2015-0267	NEW ROSE PARK LIFT STATION REPLACEMENT (SS02)	4	5	0	40,000	320,000				
10101	2015-0268	2015-0268	500 W LIFT STATION WET WELL IMPROVEMENTS (SS28)	4	5	0	50,000	425,000				
10101		2015-0274	PIONEER LIFT STATION WET WELL IMPROVEMENTS (SS20)	4	4	0			60,000	570,000		
10101		2015-0418	CENTENNIAL LIFT STATION WET WELL REHABILITATION (SS 19)	4	4	0			70,000	650,000		
10101		2015-0271	CANNON LIFT STATION WET WELL IMPROVEMENTS	4	4	0			40,000	375,000		
10101		2015-0270	WESTPOINTE LIFT STATION WET WELL IMPROVEMENTS (SS 33)	3	3	0						550,000
10101		2015-0272	900 NORTH LIFT STATION WET WELL IMPROVEMENTS	4	5	0	50,000	450,000				
		2017-2008	BILLY MITCHELL (SS16) CAPACITY IMPROVEMENTS	3	4	0			60,000	750,000		
	524907093	2017-2075	HUSKY LIFT STATION		4	2,600,000						
						4,047,918	510,000	2,560,000	425,000	2,840,000	130,000	1,070,000
	<u>2720.30</u>		<b>TREATMENT PLANTS</b>									
11201	524905347	2015-0640	FACILITY BUILDING PAINTING (CORROSION PROTECTION PROGRAM)	5	5	100,000	100,000	100,000	100,000	100,000	100,000	400,000
	524905338	2017-2093	INFLUENT SCREEN (S) REPLACE/RETROFIT	5	5	712,728	3,200,000					
	524905336		EXISTING FACILITIES CONDITION ASSESSMENT/PRE-DESIGN		5	75,000						
	525400075		SOUTH RAS SKIMMER RELOCATION		4	14,615						
	525400066		WETLANDS RESTORATION PROJECT		4	0						
	524905342		PROCESS CONTROL LAB ROOM		4	19,221						
		2016-1275	WASHER COMPACTOR FOR PRIMARY SLUDGE	4	0	0		250,000				
	525400074	2017-2088	SCADA INSTRUMENTATION CONTROL IMPROVEMENTS	5	5	0						
44204	524905330	2015-0707	CHLORINE BUILDING ALARM SYSTEM		5	210,000						
		2018-1074	SCADA PHASE III FOLLOW-UP SERVICES	5	5	0	400,000					
44204	524905280	2015-0710	REPLACEMENT OF MCC2A AT THE PRE-SEDIMENTATION BUILDING - CONSTRUCTION		5	575,531						
11201	52540053	2015-0708	ATMOSPHERIC MONITORING REPLACEMENT PROGRAM	5	5	19,537		25,000	25,000	25,000	25,000	100,000
	52540064		VFD REPLACEMENT		5	227,208						
11201	52540052	2015-0500	TRICKLING FILTER REHABILITATION	5	5	0	650,000					2,000,000

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	52540067		TRICKLIKNG FILTER PUMPS INSPECTION & RECONDITIONING			117,229						
11201	524905345	2015-0502	CAPITAL ASSET REHABILITATION AND UPGRADES	5	5	1,300,000	1,300,000	1,300,000	1,300,000	1,300,000	1,300,000	5,200,000
11201	2016-1133	2016-1133	REHAB OF VERTICAL TURBINE PUMPS	4	4	0				200,000		400,000
11201	524905344	2017-2089	HVAC REPLACEMENTS	3	3	25,000		25,000	25,000	25,000	25,000	100,000
	524905341		HVAC IMPROVEMENTS AT PRE-SEDIMENTATION			6,938						
		2016-1281	COGEN ENGINE OVERHAUL									700,000
		2018-1052	SLC WRF HEADWORKS GATE REPLACEMENT	5	5	0	250,000					
	524905334	2016-1160	UPGRADE EMERGENCY GENERATORS AT PUMP STATION	4	5	0	50,000					
		2018-1072	SLC WRF INFLUENT PUMP MOTOR REBUILD	5	4	0	120,000					
		2018-1071	SLC WRF INFLUENT PUMP REBUILD	5	4	0	200,000					
		2018-1068	SLC WRF BIO GAS HEAT EXCHANGER	4	4	0	75,000					
		2018-1066	SLC WRF PUMP PLANT EXTERIOR LIGHTING	4	5	0	35,000					
			<b>NEW WATER RECLAMATION FACILITY</b>									
	524905271		NEW PLANT - CORE DESIGN/BUILD RECLAMATION FACILITY	5	0	0	1,750,000	10,250,000	5,000,000	3,500,000	2,000,000	400,000
	524905335		WRF MASTER PLAN IMPLEMENTATION - CAPITAL PROJECT SUPPORT	5	0	1,500,000	4,500,000	4,500,000	4,500,000	3,500,000	3,500,000	4,000,000
11201	524905271		NEW PLANT - MECHANICAL DEWATERING (CONSTRUCTION)	5	0	0	33,500,000	440,000				
			NEW PLANT - BNR LIQUID STREAM (CONSTRUCTION)	5	0	0		41,020,000	155,430,000	120,360,000	15,960,000	
			NEW PLANT - SOLIDS HANDLING (CONSTRUCTION)	5	0	0					41,160,000	2,840,000
			NEW PLANT - ADMIN OPS (CONSTRUCTION)	5	0	0		14,090,000	1,620,000			
			NEW PLANT - DEMOLITION (CONSTRUCTION)	5	0	0						6,500,000
	525400068	2017-2050	NEW PLANT - PROFESSIONAL DESIGN SERVICES	5	0	12,459,510	9,500,000	7,800,000	7,500,000	5,100,000	2,100,000	3,000,000
	524905339	2017-2051	NEW PLANT - CM/GC DESIGN SERVICES	5	0	488	3,000,000	2,500,000	1,000,000			
	524905337	2017-2052	NEW PLANT - WATER RENEW PUBLIC OUTREACH	5	0	250,000	300,000	250,000	250,000	250,000	250,000	500,000
	524905340	2017-2054	NEW PLANT - PILOTING AND DEMONSTRATION TESTING	5	0	98,947	2,000,000	2,000,000				
			NEW PLANT - PROJECT DOCUMENTATION	4	0	0	150,000	60,000	60,000	60,000	60,000	120,000
11201	524905272	2015-0404	NEW WATER RECLAMATION FACILITY - INFLUENT SCREENINGS (CONSTRUCTION)		5	0						
			<b>TOTAL NEW WATER RECLAMATION FACILITY</b>				54,700,000	82,910,000	173,560,000	132,770,000	65,030,000	17,360,000
			<b>TOTAL WATER RECLAMATION FACILITY</b>			17,711,954	61,080,000	84,610,000	176,810,000	134,420,000	66,480,000	26,260,000
	2730.14		<b>COLLECTION LINES</b>									
			<b>COLLECTION SYSTEM ASSET MANAGEMENT PROGRAM</b>									
10401	52510020	2015-0704	1200 WEST TRUNK LINE CONDITION ASSESSMENT/ PROJECT PRE-DESIGN	5	2	0						600,000
10401	525002742	2015-0664	SIPHON INSPECTION PROJECT	4	2	0					100,000	
10401	525002834	2015-0647	COLLECTION SYSTEM PROJECT DEVELOPMENT CAP SCOPING	5	5	100,000	150,000	150,000	100,000	100,000	100,000	400,000
10401	525002770	2015-0703	BECK STREET TRUNK LINE CONDITION ASSESSMENT/PRE-DESIGN	5	2	232,403						600,000
10401	525002771	2015-0705	ORANGE STREET TRUNK LINE CONDITION ASSESSMENT/PROJECT PRE-DESIGN	5	2	0						500,000
						332,403	150,000	150,000	100,000	100,000	200,000	2,100,000
			<b>FLOW MONITORING/I&amp;I PROGRAM</b>									
10401	525002756	2015-0648	WEST SIDE INFLOW & INFILTRATION STUDY		5	151,004						
10401	525002741	2015-0651	ANNUAL HYDRAULIC MODEL CALIBRATION	4	2	0				100,000		300,000

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10401	525002740	2015-0649	PERMANENT FLOW METERS	5	0	350,000		250,000	250,000	250,000		
			VARIOUS BASIN INFLOW TESTING		4	0						
						501,004	0	250,000	250,000	350,000	0	300,000
			<b>CITY, COUNTY, STATE AND MISC. DRIVEN PROJECTS</b>									
10401	525002738	2015-0654	PRISON RELOCATION UTILITIES AND DEVELOPMENT SUPPORT		5	330,263						
	525002674		TERMINAL REDEVELOPMENT PROJECT	5	0		5,000	5,000				
10401	525002560	2015-0484	ANNUAL MISC. PUBLIC SERVICES PROJECTS	5	5	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000
10401	525002738	2016-1262	NW QUADRANT CF INFRASTRUCTURE SUPPORT SERVICES	5	5	330,263	400,000	350,000				
	525002760		WEST TEMPLE - NORTH TEMPLE TO 400 SOUTH	4	5	673,778						
10401	525002764	2016-0743	1300 EAST - SEWER		5	285,900						
10401	2016-1265	2016-1265	NW QUADRANT (DEVELOPMENT) PIPE UPSIZE SEWER	5	0	0	350,000					
10401	525002681		WILMINGTON AVENUE SANITARY SEWER			15,082						
10401			MOUNTAIN VIEW CORRIDOR UDOT BETTERMENT			0	250,000					
			ODOR & CORROSION PRELIMINARY DESIGN AND SITING ANALYSIS	5	5	0	350,000					
			ODOR & CORROSION IMPLEMENTATION PROGRAM	5	0	0	50,000	1,500,000	1,500,000	1,500,000	1,500,000	4,500,000
			900 S (950 E TO 1300 E) ROADWAY	5	5	0	600,000					
			1900 EAST - WILMINGTON TO PARLEYS CANYON	5	5	0	450,000					
			700 W (1600 S TO 2100 S) ROADWAY	5	5	0	400,000					
			800 WEST 600 S TO 800 S	5	5	0	250,000					
			500 EAST - 1700 SOUTH TO 2100 SOUTH	5	5	0	300,000					
			CITY WIDE STREET IMPROVEMENTS AND PRESERVATION 2019/2020	5	5	0	2,500,000					
			2000 E (PARLEYS CANYON BLVD TO CITY LIMIT) ROADWAY	5	5	0	200,000					
			300 W (900 S TO 2100 S) ROADWAY	5	5	0	150,000	2,000,000				
			900 EAST (HOLLYWOOD AVE TO 2700 S) ROADWAY	5	5	0		350,000				
			100 S (NORTH CAMPUS DRIVE TO 900 E) ROADWAY	5	5	0		500,000				
			1700 EAST (1700 S TO 2700 S) ROADWAY	5	5	0		550,000				
			CITY WIDE STREET IMPROVEMENTS AND PRESERVATION 2020/2021	5	5	0		2,500,000				
			300 WEST - 600 SOUTH TO 2100 SOUTH	5	5	0			500,000			
			200 SOUTH - 400 WEST TO 900 EAST, PHASE 1	5	5	0			500,000			
			CITY WIDE STREET IMPROVEMENTS AND PRESERVATION 2021/2022	5	5	0			2,500,000			
			1100 EAST TO HIGHLAND - ROMONA AVE TO WARNOCK AVENUE	5	5	0				500,000		
			1100 EAST - 900 SOUTH TO RAMONA AVE	5	5	0				500,000		
			200 SOUTH - 400 WEST TO 900 EAST, PHASE 2	5	5	0				300,000		
			1300 EAST - 2100 SOUTH TO CITY BOUNDARY	5	5	0				500,000		
			CITY WIDE STREET IMPROVEMENTS AND PRESERVATION 2022/2023	5	5	0				2,500,000		
			VIRGINIA STREET - SOUTH TEMPLE TO 11TH AVE	5	5	0					500,000	
			300 NORTH - 300 WEST TO 1000 WEST	5	5	0					500,000	
			CITY WIDE STREET IMPROVEMENTS AND PRESERVATION 2023/2024	5	5	0					2,500,000	
			900 SOUTH - 900 WEST TO 300 WEST AND WEST TEMPLE TO 900 EAST	5	5	0						1,000,000
			2100 SOUTH - 700 EAST TO 1700 EAST	5	5	0						500,000
			CITY WIDE STREET IMPROVEMENTS AND PRESERVATION 2023/2024	5	5	0						2,500,000
						1,835,286	6,455,000	7,955,000	5,200,000	6,000,000	5,200,000	9,500,000
			<b>PIPE RENEWAL &amp; REPLACEMENT PROGRAM</b>									
10401	525002705	2015-0332	300 WEST - 500 NORTH TO 600 NORTH (WEST SIDE)		3	1,663						



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10401	525002708	2015-0333	WEST CAPITOL STREET - COLUMBUS STREET TO ZANE AVENUE TO WALL STREET		3	0						
10401	525002629	2015-0344	REDWOOD ROAD - PAXTON AVENUE TO CALIFORNIA AVENUE		3	96,755						
10401	525002780	2016-0840	4600 WEST DIVERSION I&I MITIGATION PROJECT		4	296,732						
	525002838		GLENDALE GOLF COURSE LATERAL			90,953						
10401		2015-0486	1% PER YEAR SEWER REHABILITATION/SYSTEM RENEWAL	5	5	0			2,650,000	3,000,000	3,000,000	20,000,000
	525002761	2015-0283	700 N I-15 BYPASS FOR INSPECTION OF EXISTING LINE	5	0	94,140	1,100,000					
10401	525002719	2015-0303	NORTH TEMPLE (100 N) - APPROX. 2050 WEST TO GLADIOLA STREET	5	5	150,000	2,100,000	200,000				
10401	2015-0722	2015-0722	TESORO SEWER TRUNK LINE REHABILITATION	5	4	0			250,000	6,000,000		
10401		2016-0897	WEST TEMPLE FROM TRUMAN AVE TO 1300 S CIPP	5	4	0				350,000	2,000,000	2,000,000
10401	2016-0902	2016-0902	800 S AND 1100 E LATERAL CONNECTIONS AND UPSTREAM INFILTRATION	3	4	0				20,000	150,000	
10401		2015-0727	300 W - 550 S TO 600 S	5	4	0					150,000	
10401	525002443	2016-0895	ELGIN AVE SEWER REPLACEMENT	3	3	0					400,000	
10401	2015-0318	2015-0318	700 SOUTH - 3750 WEST TO IRON ROSE PLACE (3830 W)	4	4	0					200,000	
	525002744	2016-0833	2300 EAST SEWER REHAB FROM EAST TO WEST SIDE OF FOOTHILL BLVD	5	5		60,000					
	525002774	2015-0728	ALLY BETWEEN LAKE ST AND 800 E	5	5		30,000					
	525002776	2015-0730	THIRD AVE FROM E ST TO F ST	5	5		30,000					
	525002836		OMNI AND STARCREST SEWER REHAB	5	5		50,000					
	525002858	2016-1050	CIPP SEWER ON 1675 E TOMAHAWK DR	5	5		100,000					
	525002772		WEST CAPITOL ST SANITARY SEWER MAIN FROM 490 N TO 520 N.	5	5		30,000					
10401	2016-0873	2016-0873	DOOLEY COURT	3	5	0	60,000					
	525002851	2017-2130	1200 WEST TRUNK LINE REHABILITATION PROJECT	5	5	400,106	1,000,000	4,000,000	4,000,000	4,000,000		
			BECK STREET TRUNK LINE REHABILITATION PROJECT	5	3	0					800,000	10,000,000
10401		2016-0908	3RD AVE D TO E STREET	3	5	0	140,000					
10401		2015-0731	MAIN ST - 320 N TO 340 N	4	5	0	110,000					
10401	525002355	2016-0861	6TH AVE FROM 588 E TO H ST	4	5	330,708	180,000					
10401	525002390	2016-0866	400 WEST FROM 100 NORTH TO 140 NORTH (WEST SIDE) CIPP INSTALLATION	3	4	0	40,000					
10401		2016-0989	2600 EAST AND BLAINE AVE REHABILITATION	3	5	0	150,000					
10401		2016-0991	CIPP SEWER ON FOOTHILL DR	3	5	0	110,000					
10401		2016-0992	WASATCH DR FROM 1300 SOUTH TO VILLAGE CIRCLE SEWER REHAB	3	5	0	260,000					
10401		2016-0993	FOOTHILL DR AND 1300 SOUTH SEWER REHAB	3	5	0	70,000					
10401		2016-0995	LOGAN WAY AND 1700 SOUTH SEWER REHAB	3	5	0	75,000					
10401		2016-0997	700 EAST FROM 2700 SOUTH TO CRYSTAL AVE SEWER REHAB	3	5	0	105,000					
10401		2016-0998	600 WEST 100 SOUTH SEWER REHAB	3	5	0	150,000					
10401		2016-1001	BROADMOOR ST FROM ELM AVE TO 2100 SOUTH SEWER REHAB	3	5	0	55,000					
10401		2016-1002	2300 EAST FROM STRINGHAM AVE TO BERNADINE DR SEWER REHAB	3	5	0	30,000					
10401		2016-1003	LYNWOOD DR SEWER REHAB	3	5	0	75,000					
10401		2016-1004	2300 EAST AND COUNTRY CLUB DRIVE SEWER REHAB	3	5	0	40,000					
10401		2016-1005	WILSHIRE CIRCLE SEWER REHAB	3	5	0	155,000					
10401		2016-1008	P STREET FROM 4TH AVE TO 3RD AVE SEWER REHAB	3	5	0	40,000					
10401		2016-1009	1ST AVE FROM T STREET TO U STREET SEWER REHAB	3	5	0	140,000					
10401		2016-1011	1200 EAST FROM FENWAY AVE TO 700 SOUTH SEWER REHAB	3	5	0	35,000					
10401		2016-1012	FULLER AVE FROM 1000 EAST TO 1100 EAST SEWER REHAB	3	5	0	35,000					
10401		2016-1013	500 SOUTH AND 1300 EAST SEWER REHAB	3	5	0	35,000					
10401		2016-1014	600 SOUTH 1300 EAST SEWER REHAB	3	5	0	45,000					
10401		2016-1016	1200 EAST AND 700 SOUTH SEWER REHAB	3	5	0	50,000					
10401		2016-1017	SUNNYSIDE AVE FROM CONNOR ST TO 2200 EAST SEWER REHAB	3	5	0	40,000					
10401		2016-1018	MICHIGAN AVE AND FOOTHILL BLVD SEWER REHAB	3	5	0	40,000					

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10401	525002829	2016-1019	FOOTHILL DRIVE AND 2100 EAST SEWER REHAB	3	5	0	90,000					
10401		2016-1020	LAIRD AVE SEWER REHAB	3	5	0	240,000					
10401	525002828	2016-1021	BROWNING AVE AND 1700 EAST	3	5	0	15,000					
10401	525002820	2016-1024	LOGAN AVE SEWER REHAB	3	5	0	100,000					
10401	525002800	2016-1026	1600 EAST FROM LOGAN AVE TO 1700 SOUTH SEWER REHAB	3	5	0	45,000					
10401		2016-1028	1900 EAST FROM 800 SOUTH AND 900 SOUTH SEWER REHAB	3	5	0	30,000					
10401		2016-1030	HARVARD AVE AND MCCLELLAND SEWER REHAB	3	5	0	90,000					
10401		2016-1031	BACKLOT BETWEEN PAXTON AVE AND FREMONT AVE SEWER REHAB	3	5	0	40,000					
10401		2016-1032	800 SOUTH FROM 700 EAST TO LAKE ST SEWER REHAB	3	5	0	85,000					
10401	525002804	2016-1035	2700 SOUTH AND IMPERIAL ST SEWER REHAB	3	5	0	100,000					
10401	525002809	2016-1036	JUDITH ST BETWEEN ZENNITH AVE AND HUDSON AVE SEWER REHAB	3	5	0	50,000					
10401	525002826	2016-1038	HOLLYWOOD AVE FROM 900 EAST TO LINCOLN ST SEWER REHAB	3	5	0	50,000					
10401	525002797	2016-1039	2100 SOUTH FROM 1900 EAST TO PRESTON ST SEWER REHAB	3	5	0	20,000					
10401		2016-1040	CIPP SEWER ON 800 EAST FROM SOUTH TEMPLE TO 100 SOUTH	3	5	0	10,000	100,000				
10401		2016-1041	CIPP SEWER ON 600 SOUTH FROM 500 EAST TO 600 EAST	3	5	0	5,000	50,000				
10401		2016-1042	CIPP SEWER ON 600 SOUTH 600 EAST	3	5	0	5,000	50,000				
10401		2016-1044	CIPP SEWER ON 300 WEST FROM ORCHARD PL TO 600 SOUTH	3	5	0	5,000	50,000				
10401		2016-1047	CIPP SEWER ON EMERSON AVE BETWEEN 2200 EAST AND 2300 EAST	3	5	0	6,500	65,000				
10401		2016-1048	CIPP SEWER ON ROOSEVELT AVE AND 2200 EAST	3	5	0	3,000	30,000				
10401		2016-1058	CIPP SEWER ON DARWIN ST FROM GIRARD AVE TO ZANE AVE	3	5	0	5,000	50,000				
10401		2016-1059	CIPP SEWER ON 1040 SOUTH BONNEVILLE DR	3	5	0	5,000	50,000				
10401		2016-1077	CIPP SEWER ON 1100 EAST BETWEEN 100 SOUTH AND 200 SOUTH	3	5	0	6,000	60,000				
10401		2016-1078	CIPP SEWER ON 200 SOUTH BETWEEN 900 EAST AND 1000 EAST	3	5	0	6,000	60,000				
10401		2016-1081	CIPP SEWER ON 1000 EAST BETWEEN 200 SOUTH AND 300 SOUTH	3	5	0	4,000	40,000				
10401		2016-1089	CIPP SEWER ALLEY WEST OF 600 E BETWEEN 800 SOUTH AND 900 SOUTH	3	5	0	20,000	200,000				
10401		2016-1090	CIPP SEWER ON GRACE CT AND WILLIAMS AVE	3	5	0	3,000	36,000				
10401		2016-1091	CIPP SEWER ON ALLEY EAST OF 300 EAST BETWEEN 800 SOUTH AND 900 SOUTH	3	5	0	3,000	36,000				
10401		2016-1093	CIPP SEWER ON 1700 EAST AND PARLEYS CANYON BLVD	3	5	0	3,000	36,000				
10401		2016-1094	CIPP SEWER ON FOURTH AVE FROM A STREET TO B STREET	3	5	0	3,000	36,000				
10401		2016-1096	CIPP SEWER ON THIRD AVE FROM E STREET TO F STREET	3	5	0	8,000	85,000				
10401		2016-1097	CIPP SEWER ON J STREET BETWEEN THIRD AVE AND FOURTH AVE	3	5	0	17,000	170,000				
10401		2016-1098	CIPP SEWER ON SECOND AVE BETWEEN F STREET AND G STREET	3	5	0	15,000	150,000				
10401		2016-1099	D STREET FROM FIRST AVE TO SECOND AVE SEWER REHAB	3	5	0	60,000					
10401		2016-1102	CIPP SEWER ON K STREET FROM SOUTH TEMPLE TO FIRST AVE	3	5	0	7,000	70,000				
10401		2016-1100	CIPP SEWER ON E STREET BETWEEN FIRST AVE AND SECOND AVE	3	5	0	4,000	40,000				
10401		2016-1103	CIPP SEWER ON 500 EAST BETWEEN SOUTH TEMPLE AND 100 SOUTH	3	5	0	10,000	105,000				
10401		2016-1104	CIPP SEWER ON SLADE PL AND 500 EAST	3	5	0	3,000	32,000				
10401		2016-1105	CIPP SEWER ON 300 SOUTH AND 300 EAST	3	5	0	65,000	642,000				
10401		2016-1110	CIPP ON A STREET BETWEEN SOUTH TEMPLE AND FIRST AVE	3	5	0	6,000	65,000				
10401		2016-1112	CIPP SEWER ON 200 EAST BETWEEN 200 SOUTH AND 300 SOUTH	3	5	0	6,000	60,000				
10401		2016-1113	CIPP SEWER ON 200 EAST BETWEEN 300 SOUTH AND 400 SOUTH	3	5	0	20,000	200,000				
10401		2016-1114	CIPP SEWER ON 200 WEST FROM 200 NORTH TO 300 NORTH	3	5	0	5,000	15,000				
10401		2016-1116	CIPP SEWER ON WEST TEMPLE BETWEEN 200 SOUTH AND 300 SOUTH	3	5	0	6,000	60,000				
10401		2016-1117	CIPP SEWER ON 200 SOUTH BETWEEN REGENT ST AND STATE ST	3	5	0	9,000	90,000				
10401		2016-1118	CIPP SEWER ON 200 SOUTH BETWEEN WEST TEMPLE AND MAIN ST	3	5	0	4,000	40,000				
10401		2016-1119	CIPP SEWER ON 400 SOUTH BETWEEN WEST TEMPLE AND MAIN ST	3	5	0	7,000	70,000				
10401		2016-1120	CIPP SEWER ON 400 SOUTH BETWEEN MAIN ST AND CACTUS ST	3	5	0	5,000	50,000				

**SEWER UTILITY CIP BUDGET**  
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COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR SPENT 2018-19 (Calc'd from Pg)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
10401		2016-1121	CIPP SEWER ON MENLO AVE AND 800 EAST	3	5	0	6,000	60,000				17,000
10401		2016-1087	1700 SOUTH AND 1700 EAST SEWER REHAB	3	4	0			75,000			
10401		2016-1088	CIPP SEWER ON FAYETTE AVE AND WEST TEMPLE	3	4	0						17,000
10401		2016-1010	CIPP SEWER ON 1000 EAST FROM SOUTH TEMPLE TO 100 SOUTH	3	4	0						19,000
10401		2016-1101	CIPP SEWER ON B STREET BETWEEN SOUTH TEMPLE AND FIRST AVE	3	4	0						12,000
10401		2016-1109	CIPP SEWER ON ELY PL AND 700 EAST	3	4	0						20,000
10401		2016-1111	CIPP SEWER ON 200 EAST FROM 250 SOUTH TO 300 SOUTH	3	4	0						16,000
10401		2016-1115	CIPP SEWER ON 200 NORTH BETWEEN WEST TEMPLE AND ALMOND ST	3	4	0						11,000
10401		2016-1122	CIPP SEWER ON EDGEHILL ROAD AND LITTLE VALLEY ROAD	3	4	0						16,000
10401		2016-1123	CIPP SEWER ON 700 EAST EIGHTEENTH AVE	3	4	0						17,000
10401		2016-1124	CIPP SEWER ON NORTHMONT WAY AND EIGHTEENTH AVE	3	4	0						23,000
10401		2016-1126	CIPP SEWER ON TERRACE HILLS DR BETWEEN NORTHCREST DR AND NORTH BONNEVILLE	3	4	0						18,000
10401		2016-1129	CIPP SEWER ON H STREET BETWEEN ELEVENTH AVE AND TWELFTH AVE	3	4	0						13,000
10401		2016-1131	CIPP SEWER ON H STREET BETWEEN TENTH AVE AND ELEVENTH AVE	3	4	0						25,000
10401		2016-1132	CIPP SEWER ON NINTH AVE BETWEEN K STREET AND L STREET	3	4	0						21,000
10401		2016-1140	CIPP SEWER ON DORCHESTER DR FROM BRAEWICK RD TO SANDRUN RD	3	4	0						13,000
10401		2016-1142	CIPP SEWER ON B STREET FROM SIXTH AVE TO SEVENTH AVE	3	4	0						26,000
10401		2016-1144	CIPP SEWER ON 600 WEST FROM 400 NORTH TO 350 NORTH	3	4	0						21,000
10401		2016-1145	CIPP SEWER ON DONNER WAY FROM THACKERAY PL TO SHAKESPEARE PL	3	4	0						20,000
10401		2016-1152	CIPP SEWER ON KENSINGTON AVE AND BEACON DR	3	4	0						12,000
10401		2016-1153	CIPP SEWER ON CANTERBURY DR FROM LANCASTER DR TO WILTON WAY	3	4	0						25,000
10401		2016-1154	CIPP SEWER CANTERBURY DR AND LANCASTER DR	3	4	0						19,000
10401		2016-1155	CIPP SEWER 1515 SOUTH DEVONSHIRE DR TO LANCASTER DR	3	4	0						14,000
10401		2016-1156	CIPP SEWER ON UTE DR FROM INDIAN HILL CIRCLE TO EAGLE WAY	3	4	0						18,000
10401		2016-1157	CIPP SEWER ON COMANCHE DR AND EAGLE WAY	3	4	0						5,000
10401		2016-1158	CIPP SEWER ON WASATCH DR BETWEEN 1700 SOUTH AND SKYLINE DR	3	4	0						20,000
10401		2016-1172	CIPP SEWER FROM 1911 SOUTH FOOTHILL TO 1975 SOUTH FOOTHILL	3	4	0						19,000
10401		2016-1197	CIPP SEWER ON LOGAN WAY AT 1700 SOUTH	3	4	0						10,000
10401		2016-1198	CIPP SEWER ON BLAINE AVE AND TEXAS ST	3	4	0						15,000
10401		2016-1207	CIPP SEWER ON INDUSTRIAL AVE AND 1700 SOUTH	3	4	0						7,000
10401		2016-1209	CIPP SEWER ON 2300 EAST BETWEEN CLUBHOUSE DR AND MAYWOOD DR	3	4	0						18,000
10401		2016-1212	CIPP SEWER FROM 2526 EAST COMMONWEALTH TO WYOMING ST	3	4	0						20,000
10401		2016-1213	CIPP SEWER ON 2000 EAST BETWEEN WILSON AVE AND DOWNINGTOWN AVE	3	4	0						18,000
10401		2016-1214	CIPP SEWER FROM 1838 EAST DOWNINGTOWN AVE TO 1800 EAST	3	4	0						23,000
10401		2016-1215	CIPP SEWER ON 2100 EAST FROM WILSON AVE TO DOWNINGTOWN AVE	3	4	0						14,000
10401		2016-1216	CIPP SEWER ON 2000 EAST FROM DOWNINGTOWN AVE TO GARFIELD AVE	3	4	0						18,000
10401		2016-1218	CIPP SEWER ON 1700 SOUTH FROM 1860 EAST TO 1800 EAST	3	4	0						19,000
10401		2016-1219	CIPP SEWER ON 1700 EAST AND PARLEYS CANYON BL	3	4	0						4,000
10401		2016-1229	CIPP SEWER ON GLENMARE ST BETWEEN STRATFORD AVE AND 2700 SOUTH	3	4	0						19,000
10401		2016-1239	CIPP SEWER ON BEVERLY ST BETWEEN ATKIN AVE AND CLAYBOURNE AVE	3	4	0						17,000
10401		2016-1241	CIPP SEWER ON HUDSON AVE BETWEEN HIGHLAND DRIVE AND 1400 EAST	3	4	0						23,000
10401		2016-1242	CIPP SEWER ON SYLVAN AVE BETWEEN 1900 EAST AND 2000 EAST	3	4	0						22,000
10401		2016-1245	CIPP SEWER ON THIRD AVE AT CANYON ROAD	3	4	0						13,000
10401		2016-1246	CIPP SEWER ON STATE STREET BETWEEN 126 N AND 200 NORTH	3	4	0						19,000
10401		2016-1248	CIPP SEWER ON C STREET BETWEEN FIFTH AVE AND SIXTH AVE	3	4	0						24,000
10401		2016-1253	CIPP SEWER ON 300 NORTH BETWEEN 550 WEST AND 600 WEST	3	4	0						20,000
10401		2016-1256	CIPP SEWER ON UNIVERSITY BLVD (500 S) FROM 1500 EAST TO GUARDSMAN WAY	3	4	0						17,000

**SEWER UTILITY CIP BUDGET**  
**Five Year Projected Budget FY2020-2024**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR SPENT 2018-19 (Calc'd from Pg)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
10401		2015-0309	500 SOUTH - 3415 WEST TO 3600 WEST	3	3	0						224,000
10401		2016-0964	CIPP SEWER PIPE 1480 EAST TOMAHAWK DRIVE	3	3	0						12,000
10401		2016-0965	CIPP SEWER PIPE FROM 1536 E TOMAHAWK DR TO CHANDLER DR	3	3	0						20,000
10401		2016-0821	ELGIN AVE 1000 E - 950 E	2	4	0						200,000
10401		2017-1302	LEARNED AVE 1034 TO 1000 WEST	2	4	0						10,000
10401		2017-1307	2600 EAST 1750 TO 1889 SOUTH	2	4	0						50,000
10401		2016-0967	8-IN CIPP SEWER LINE FROM CAMBRIDGE WAY TO 1330 EAST PERRYS HOLLOW	3	3	0						9,000
10401		2016-0974	CIPP SEWER ON 1500 WEST FROM TALISMAN DR TO 895 NORTH	3	3	0						14,000
10401		2016-0977	CIPP SEWER BONNEVILLE DR	3	3	0						19,000
10401		2016-0980	CIPP SEWER ON OQUIRRH DRIVE	3	3	0						21,000
10401		2016-0982	CIPP SEWER AT ST MARY'S WAY AND OQUIRRH DRIVE	3	3	0						24,000
10401		2016-1006	CIPP SEWER ON 4TH AVE FROM VIRGINIA ST TO U ST	3	3	0						22,000
10401		2016-1007	CIPP SEWER ON FORT DOUGLAS CIRCLE	3	3	0						15,000
10401		2016-1015	CIPP SEWER ON BERKELEY ST AND WILMINGTON AVE	3	3	0						19,000
10401		2016-1049	CIPP SEWER ON TOMAHAWK DR	3	3	0						10,000
10401		2016-1051	CIPP SEWER ON 1675 EAST TOMAHAWK DR	3	3	0						13,000
10401		2016-1052	CIPP SEWER ON VIRGINIA ST FROM CHANDLER DR TO KRISTIANNA CIR	3	3	0						12,000
10401		2016-1053	CIPP SEWER ON KRISTIANNA CIR AND VIRGINIA ST	3	3	0						18,000
10401		2016-1054	CIPP SEWER ON ROUNDTOLT DR TO EAST CAPITOL BLVD	3	3	0						10,000
10401		2016-1062	CIPP SEWER ON SECOND AVE FROM L STREET TO M STREET	3	3	0						21,000
10401		2016-1092	CIPP SEWER ON 2100 SOUTH 1410 EAST	3	3	0						29,000
10401		2016-1127	CIPP SEWER ON 550 EAST NORTHHILLS DR	3	3	0						15,000
10401		2017-1305	1600 SOUTH INDUSTRIAL ROAD	1	5	0						25,000
10401		2016-0969	CIPP SEWER LINE ON 300 WEST FROM 400 NORTH TO BISHOP PL	3	2	0						1,000
10401		2016-1066	CIPP SEWER ON M STREET BETWEEN FIRST AND SECOND AVE	3	2	0						15,000
10401	525002849		1700 NORTH UNDER CITY DRAIN - BYPASS AND REHABILITATION	5	5	40,000	400,000					
			<b>POINT REPAIR PROGRAM (VARIOUS LOCATIONS)</b>									
10401	525002690	2015-0477	POINT REPAIRS IN SUPPORT OF CIPP PROGRAM (VARIOUS LOCATIONS)	3	5	0		350,000	350,000	350,000	350,000	1,400,000
			<b>TOTAL COLLECTION LINES</b>			1,501,058	8,475,500	7,503,000	7,325,000	13,720,000	7,050,000	37,188,000
			<b>MANHOLE REHAB PROGRAM (VARIOUS LOCATIONS)</b>									
10401		2015-0478	MANHOLE REHAB PROGRAM (VARIOUS LOCATIONS)	5	5	0	450,000	350,000	350,000	350,000	350,000	2,100,000
	525002832		500 SOUTH SURPLUS SIPHON VAULT REPLACEMENT (MH 05225)		5	90,779	400,000					
						90,779	850,000	350,000	350,000	350,000	350,000	2,100,000
			<b>OTHER PROJECTS</b>									
10401	525002839	2015-0376	ON-CALL TASK ORDER GENERAL CONSTRUCTION SERVICES (VARIOUS LOCATIONS)		5	300,000						
10401	52520035	2015-0485	CONTRIBUTIONS BY DEVELOPERS	5	5	0	500,000	500,000	500,000	500,000	500,000	2,000,000
	52510023	2016-1267	COLLECTION SYSTEM PROJECTS GENERAL SUPPORT - TASK 2	5	0	1,500,000	2,000,000	2,000,000	1,500,000	1,500,000	750,000	750,000
	525002786		PROGRAM MANAGEMENT SERVICES - TASK 1			0	350,000	350,000	350,000	350,000	350,000	350,000
		2016-0839	TDS REDUCTION PROGRAM	1	0	0						500,000
						1,800,000	2,850,000	2,850,000	2,350,000	2,350,000	1,600,000	3,600,000
			<b>MASTER PLAN IMPLEMENTATION PROGRAM</b>									

**SEWER UTILITY CIP BUDGET**  
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COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR SPENT 2018-19 (Calc'd from Pg)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
10401	525002524	2015-0279	500 SOUTH INTERCEPTOR - ORANGE TO 1000 WEST		5	1,720,290						
10401	525002698	2015-0286	MP12A - 700 SOUTH CAPACITY UPGRADES – 4650 WEST TO 3400 WEST	5	5	14,004,129	250,000					
10401	52490785	2016-1260	500 SOUTH DIVERSION, PHASE II (PUMP STATION)	5	5	11,976,147	2,000,000					
10401	525002850	2016-0950	MP13 - BECK STREET TRUNK REPLACEMENT FROM 500 SOUTH AND STATE STREET TO 700 S	5	5	522,328	1,000,000	6,000,000	11,000,000			
10401	525002376		1800 NORTH BECK STREET TO THE PRETREATMENT PLANT	5	5	2,608,982	3,000,000	12,000,000	6,000,000			
10401	525002423	2015-0320	MP8A - 1500 SOUTH - 2700 WEST TO REDWOOD ROAD	4	5	840,877	500,000					
10401	525002631	2015-0280	ORANGE STREET - PHASE IV - INDIANA TO 1500 SOUTH	5	4	0						6,131,000
10401	52490787	2015-0269	MP12D - 700 SOUTH LIFT STATION (SS 10)	5	4	493,341	7,000,000					
10401	2016-0929	2016-0929	MP16 - 600 WEST AND 700 SOUTH TO 500 WEST AND 800 SOUTH	5	4	0					1,400,000	
10401	2016-0930	2016-0930	MP17A - 900 SOUTH FROM RICHARD STREET TO MAIN STREET	5	4	0	250,000	1,000,000				
10401	2016-0931	2016-0931	MP17B - MAIN STREET FROM 800 SOUTH TO 900 SOUTH	5	4	0						809,100
10401	2016-0932	2016-0932	MP18 - 300 WEST FROM FAYETTE AVE TO 900 SOUTH	5	4	0						800,000
10401	2016-0940	2016-0940	MP19 - FOLSOM AVENUE FROM 500 WEST TO 1000 WEST	5	4	0						13,500,000
10401	2016-0941	2016-0941	MP20 - 700 WEST FROM 900 SOUTH TO 600 SOUTH	5	4	0						5,500,000
10401	2016-0942	2016-0942	MP21 - 100 SOUTH AND 300 WEST DIVERSION	5	4	0						300,000
10401		2015-0284	500 S SEWER REPLACEMENT FROM 3200 W TO ORANGE STREET	4	4	0						17,150,000
10401	2015-0322	2015-0322	MP28 - NORTH TEMPLE - AIRPORT TO ORANGE STREET	4	4	0					750,000	15,500,000
10401	2016-0949	2016-0949	MP26 - SOUTH TEMPLE AND 400 WEST DIVERSION	4	4	0						250,000
10401	525002577	2016-0849	MP15 - 700 SOUTH INTERCEPTOR CAPACITY UPGRADE	4	4	508,500	3,000,000	500,000				
10401	525002584	2016-0905	MP7 - 100 SOUTH 1200 EAST DIVERSION FOR CAPACITY	4	4	0	400,000					300,000
10401	2016-0943	2016-0943	MP22 - PIONEER ROAD FROM CALIFORNIA AVENUE TO 1500 SOUTH	4	4	0				1,500,000	6,500,000	1,000,000
10401	2016-0947	2016-0947	MP24 - 400 SOUTH FROM 300 WEST TO 600 WEST	4	4	0						3,000,000
10401	2016-0953	2016-0953	MP31 - 600 SOUTH FROM 800 WEST TO 900 WEST	4	3	0						2,000,000
10401	525002507	2015-0321	MP8B - 3230 WEST - 1820 SOUTH TO 1670 SOUTH	3	4	397,056				1,000,000	5,000,000	
10401	2016-0952	2016-0952	MP30 - 200 EAST FROM 300 SOUTH TO 500 SOUTH	4	3	0						2,000,000
10401		2016-0946	MP23 - PARALLEL 1000 WEST 48-INCH TRUNK	4	3	0						20,000,000
10401	2016-1195	2016-1195	MP29 - BECK STREET TRUCK REPLACEMENT FROM 200 SOUTH AND 300 WEST TO STATE STR	4	3	0						16,000,000
10401		2016-0841	500 S. PUMP AND THIRD FORCE MAIN INSTALLATION	5	1	0						10,000,000
10401	2016-0954	2016-0954	MP32 - 700 WEST FROM 700 SOUTH TO 500 SOUTH (EAST SIDE OF I-15)	3	3	0						3,000,000
10401	2016-0955	2016-0955	MP33 - 1300 EAST FROM 400 SOUTH TO 500 SOUTH	3	3	0	450,000					
10401		2015-0660	SATELLITE TREATMENT PLANT	5	0	0						405,500,000
10401			700 S. PUMP AND THIRD FORCE MAIN INSTALLATION			0						10,000,000
						33,071,650	17,850,000	19,500,000	17,000,000	2,500,000	13,650,000	532,740,100
			<b>Total Collection System</b>			39,132,179	36,630,500	38,558,000	32,575,000	25,370,000	28,050,000	587,528,100
			<b>LANDSCAPING</b>									3,372,750
10401	2730.20		NORTHWEST OIL DRAIN			0	150,000					
						0	150,000	0	0	0	0	3,372,750
			<b>TOTAL CAPITAL IMPROVEMENTS</b>			60,892,051	98,370,500	125,728,000	210,160,000	162,630,000	94,660,000	618,230,850

**SEWER UTILITY CAPITAL PURCHASES BUDGET**  
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COST CENTER	OBJECT CODE	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	Comments	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
	<u>2710.10</u>			<u>LAND</u>										
5210401			2015-0481	500 SOUTH LAND PURCHASE		5	5		4,100,000					
5210401				LAND EASEMENT FOR 700 SOUTH SEWER LINE		4	4							
5210401			2016-0887	SHURTLEFF AND ANDREWS SECONDARY ACCESS		4	4		500,000					
5210401				LAND EASEMENT FOR 500 SOUTH MP PROJECT TO ORANGE STREET		4	4		1,000,000					
5210401			2016-0870	EASEMENT NORTH OF OQUIRRH DR		4	4							
								0	5,600,000	0	0	0	0	0
	<u>2750.10</u>			<u>AUTOMOBILES &amp; TRUCKS</u>										
5212201	2750.10			Electric Club Car Qty. 4										
5210801	2750.10			Transit Van w/Upfit										
5210101	2750.10			3/4 Ton Truck w/Service Body 4X4										
5210601	2750.10		3387	Int. 1 ton Cab-n-Chassis w/ Dump Bed				47,157						
5210101	2750.10		36910	GMC 3/4 ton Ext Cab Pick-up Truck				56,165						
5211201	2750.10		3418	Chev 3/4 ton Ext Cab Pick-up Truck				34,390						
5211201	2750.10		3425	Chev 1 ton Cab-n-Chassis Util. Bed & Crane				31,640						
5211201	2750.10		3488	GMC 1/2 ton Cab-n-Chassis w/ Utility Body				30,031						
5212201	2750.10		49/63/58/62	Golf Cart Enclosed Cab Dump Bed Qty 4				56,000						
5210401	2750.10			CHEV OR SIMILAR MID-SIZED 4X4 PICK UP W/BED COVER	Jason				30,000					
5212201	2750.10		3428	Replace Volvo Wg64, Mack Granite 64 br	Jamey				190,000					
5212201	2750.10		34030	Replace Sterling LT9500, Mack Granite 64 br	Jamey				190,000					
5212201	2750.10		34310	Replace International 2674 6x4, Mack Granite 64 br	Jamey				190,000					
5212201	2750.10		34020	Replace International 7400 4x2, Vactor	Jamey				500,000					
5212301	2750.10		3485	Replace Ford F-350, Chevrolet Silverado 3500HD 4x4	Jamey				40,000					
5212301	2750.10		3458	GMC Sierra 3500HD Flatbed Dump	Jamey				49,000					
5210601	2750.10		33080	Mack GU713	Randy				460,000					
5210601	2750.10		33880	GMC Sierra 2500	Randy				31,000					
5210101	2750.10		33890	GMC Sierra 2500 W/Service Body	Randy				37,500					
5212301				VARIOUS										
								255,383	1,717,500	0	0	0	0	0
	<u>2750.30</u>			<u>FIELD MAINTENANCE EQUIP.</u>										
5210601				BACKHOE EXCHANGE				8,000	8,000	8,000	8,000	8,000	8,000	
5210801				REHAB OLD CCTV VAN										
5210601				VARIOUS					400,000	400,000	400,000	400,000	400,000	
5210601				PUMP TRUCK - LARGE DIAMETER PIPE CLEANING MACHINE										
5210601				Cat Backhoe Buyback Program				9,000						
5211201				40 Ton Rough Terrain Crane for Water Rec				462,403						
5210601				BOBCAT SKID STEER										
								479,403	408,000	408,000	408,000	408,000	408,000	0
	<u>2760.10</u>			<u>PUMP PLANT EQUIPMENT</u>										

**SEWER UTILITY CAPITAL PURCHASES BUDGET**  
**Five Year Projected Budget FY2020-2024**

COST CENTER	OBJECT CODE	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	Comments	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
5211201	2760.10			SLC WRF Pump Plant Exterior Lighting Upgrades	Michael				35,000					
5211201	2760.10			SLC WRF Influent Pump Discharge Ball Valves	Michael				200,000					
									235,000	0	0	0	0	0
	2760.20			<u>TREATMENT PLANT EQUIPMENT</u>										
5212201	2760.20			COMPRESSORS AND BLOWERS										
5212201	2760.20			PUMPS										
5211201	2760.20			AERATION BASIN DRAINAGE PUMP REPLACEMENTS (10)				100,000						
5211201	2760.20			REPLACEMENT #2 WATER PUMP				100,000						
5211201	2760.20			PUMP PLANT GRIT PUMP REPLACEMENT (2)				6,778						
5211201	2760.20			SUPPLIED AIR SYSTEM REPLACEMENT CL2 BLDG				20,000						
5211201	2760.20			DIGESTER ROOF WALK WAY IMPROVEMENTS				10,000						
5211201	2760.20			HVAC REPLACEMENTS (3)				120,000						
5211101	2760.20			XPE205 METTLER TOLEDO ANALYTICAL BALANCE										
5211101	2760.20			LCHAT/HATCH 2-CHANNEL FIA + IC CONFIGURATION										
5211201	2760.20			Primary Trickling Filter Overflow Gate	Michael				20,000					
5211201	2760.20			SLC WRF HVAC Improvements	Michael									
5211201	2760.20			East Maintenance	Michael				18,000					
5211201	2760.20			Pre Treatment	Michael				5,500					
5211201	2760.20			Switch Gear #3	Michael				5,500					
5211201	2760.20			Chillers (2)	Michael				80,000					
5211201	2760.20			Administration	Michael				40,000					
5211201	2760.20			Digester MCC Room	Michael				5,000					
5211201	2760.20			South Ras	Michael				5,500					
5211201	2760.20			North Ras	Michael				5,500					
5211201	2760.20			TWAS Electrical Room	Michael				5,500					
5211201	2760.20			All Swamp Coolers (6)	Michael				27,000					
5211201	2760.20			SLC WRF Grease Pump	Michael				20,000					
5211201	2760.20			SLC WRF Snail Pump	Michael				15,000					
5211201	2760.20			SLC WRF Trickling Filter Motor VFD Replacement (6)	Michael				6,000					
5211201	2760.20			SLC WRF Bio Gas Heat Exhanger Upgrade	Michael				75,000					
5211201	2760.20			SLCWRF Co-Gen Controls	Michael				50,000					
5211201	2760.20			SLCWRF #2 Water Filters (2)	Michael				90,000					
5211201	2760.20			SLCWRF Co-Gen Oil Filter Replacement (2)	Michael				70,000					
5212201				VARIOUS						225,000	225,000	225,000	225,000	
								356,778	543,500	225,000	225,000	225,000	225,000	450,000
	2760.30			<u>TELEMETERING EQUIPMENT</u>										
5211201	52540048			TELEMETERING UPGRADE - REPLACE										
5210101				SCADA SYSTEM REPLACE				10,000	10,000	10,000	10,000	10,000	10,000	
								10,000	10,000	10,000	10,000	10,000	10,000	20,000
	2760.50			<u>OFFICE FURNITURE &amp; EQUIPMENT</u>										

**SEWER UTILITY CAPITAL PURCHASES BUDGET  
Five Year Projected Budget FY2020-2024**

COST CENTER	OBJECT CODE	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	Comments	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
5211301				Server replacement "SLCIWRDB"				9,000						
5211701				Core Switch										
5212401				FULL FUNCTION PRINTER REPLACEMENT PRE-TREATMENT SMALL				5,765						
5212201				VARIOUS				20,000	20,000	20,000	20,000	20,000	20,000	
								34,765	20,000	20,000	20,000	20,000	20,000	20,000
	<u>2760.90</u>			<u>OTHER NON-MOTIVE EQUIPMENT</u>										
5210601				TOW ALONG CEMENT MIXER										
5212201				STATIONARY SAMPLER W/ENCLOSURE										
5212401				VARIOUS NON-MOTIVE EQUIPMENT					160,000	160,000	160,000	160,000	160,000	
5212201				UPGRADE LAB ANALYTICLA EQUIPMENT										
5212201				Washer Compactor for Primary Sludge Screens										
5210601				Vanguard System										
5210601				HANDHELD RADIO REPLACEMENT				57,902						
5210801				REPLACEMENT PUSH CAMERA				11,000						
5210801				NEW LATERAL LAUNCH ADD ON SYSTEM				67,338						
5211101				LABORATORY SPECTROPHOTOMETER REPLACEMENT				5,000						
5211101				LABORATORY DIGITAL BALANCE REPLACEMENT				5,000						
5211401				SURVEY GRADE GPS UNIT				20,000						
								166,240	160,000	160,000	160,000	160,000	160,000	0
				<b>TOTAL CAPITAL OUTLAY</b>				<b>1,302,569</b>	<b>8,694,000</b>	<b>823,000</b>	<b>823,000</b>	<b>823,000</b>	<b>823,000</b>	<b>490,000</b>



## **Stormwater Utility- Budget Summary and Cash Flow**

**STORMWATER UTILITY  
ENTERPRISE FUND  
BUDGET SUMMARY  
FY 2020-2022**

<u>SOURCES</u>	ACTUAL 2017-18	AMENDED BUDGET 2018-19	PROJECTED ACTUAL 2018-19	Rate increase 10%		
				PROPOSED BUDGET 2019-20	FORECAST BUDGET 2020-21	FORECAST BUDGET 2021-22
<b>REVENUES</b>						
METERED SALES	\$ 8,508,507	\$ 8,855,000	\$ 8,855,000	\$ 9,740,500	\$ 10,714,550	\$ 11,678,860
INTEREST INCOME	124,773	33,000	33,000	20,820	174,816	38,338
OTHER REVENUES	1,027,830	1,000	1,000	1,000	1,000	1,000
TOTAL REVENUES	\$ 9,661,110	\$ 8,889,000	\$ 8,889,000	\$ 9,762,320	\$ 10,890,366	\$ 11,718,198
<b>OTHER SOURCES</b>						
GRANTS & OTHER RELATED REVENUES	354,475	650,000	650,000	516,000	516,000	516,000
COUNTY FLOOD CONTROL	-	-	-	-	-	-
IMPACT FEES	366,456	200,000	200,000	200,000	200,000	200,000
SHORT-TERM FINANCING	-	1,355,000	-	-	-	-
BOND PROCEEDS	-	-	-	14,581,000	-	6,159,200
TOTAL OTHER SOURCES	\$ 720,931	\$ 2,205,000	\$ 850,000	\$ 15,297,000	\$ 716,000	\$ 6,875,200
<b>TOTAL SOURCES</b>	<b>\$ 10,382,041</b>	<b>\$ 11,094,000</b>	<b>\$ 9,739,000</b>	<b>\$ 25,059,320</b>	<b>\$ 11,606,366</b>	<b>\$ 18,593,398</b>
<b>EXPENSES &amp; OTHER USES</b>						
<b>EXPENDITURES</b>						
PERSONNEL SERVICES	\$ 2,390,383	\$ 2,872,608	\$ 2,872,608	3,187,954	\$ 3,315,474	\$ 3,448,092
OPERATING & MAINTENANCE	152,863	186,450	186,450	200,950	204,769	208,864
TRAVEL & TRAINING	7,009	12,750	12,750	16,265	16,590	16,922
UTILITIES	188,079	244,045	244,045	244,045	248,926	253,903
TECHNICAL SERVICES	632,693	2,141,221	2,141,221	1,304,999	1,230,399	1,241,007
PUBLIC SERVICES / STREET SWEEPING	819,605	819,605	819,605	819,605	835,997	852,717
DATA PROCESSING	317,811	239,700	239,700	304,000	310,080	316,282
FLEET MAINTENANCE	223,731	214,000	214,000	214,000	218,280	222,645
ADMINISTRATIVE SERVICE FEE	101,615	130,000	130,000	120,000	122,400	124,848
PAYMENT IN LIEU OF TAXES	109,785	125,942	125,942	100,434	102,443	104,492
BILLING COST	423,849	554,117	554,117	545,417	556,325	567,452
RISK MANAGEMENT	57,985	86,983	86,983	84,842	86,539	88,269
TRANSFERS TO GENERAL FUND	-	4,000	4,000	4,000	4,080	4,162
OTHER CHARGES AND SERVICES	98,689	27,899	27,899	25,857	27,101	27,641
TOTAL EXPENDITURES	\$ 5,524,097	\$ 7,659,320	\$ 7,659,320	\$ 7,172,368	\$ 7,279,403	\$ 7,477,296
<b>OTHER USES</b>						
CAPITAL OUTLAY	197,620	515,568	515,568	728,149	620,000	620,000
CAPITAL IMPROVEMENT BUDGET	2,392,384	6,522,769	3,783,053	12,744,000	7,630,000	4,371,000
COST OF DEBT ISSUANCE	-	10,000	-	81,000	-	34,200
DEBT SERVICES	1,017,494	1,014,000	1,014,000	1,225,000	1,649,000	1,652,000
TOTAL OTHER USES	\$ 3,607,498	\$ 8,062,337	\$ 5,312,621	\$ 14,778,149	\$ 9,899,000	\$ 6,677,200
<b>TOTAL USES</b>	<b>\$ 9,131,595</b>	<b>\$ 15,721,657</b>	<b>\$ 12,971,941</b>	<b>\$ 21,950,517</b>	<b>\$ 17,178,403</b>	<b>\$ 14,154,496</b>
<b>EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES</b>						
	\$ 1,250,446	\$ (4,627,657)	\$ (3,232,941)	\$ 3,108,803	\$ (5,572,037)	\$ 4,438,902
<b>OPERATING CASH BALANCES</b>						
BEGINNING JULY 1	\$ 5,316,077	\$ 6,566,523	\$ 6,566,523	\$ 3,333,582	\$ 6,442,385	\$ 870,348
ENDING JUNE 30	\$ 6,566,523	\$ 1,938,866	\$ 3,333,582	\$ 6,442,385	\$ 870,348	\$ 5,309,250
Cash Reserve Ratio	119%	25%	44%	90%	12%	71%
<b>Cash reserve goal above 10%</b>						

**STORMWATER UTILITY  
CASH FLOW  
FY 2020 BUDGET  
AND FY 2021-2024 FORECAST**

10%,10%,9%,6%,5% Rates  
\$20.6M in Bonds,\$14.5M FY20 and \$6.2M FY22  
New Debt Pmts \$3.1M thru FY24  
100% Capital Budget FY 20 thru 24

	ACTUAL YEAR 2017-2018	PROJECTED YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-2023	BUDGET YEAR 2023-2024
STORMWATER CHARGES	8,508,507	8,855,000	9,740,500	10,714,550	11,678,860	12,379,591	12,998,571
OTHER INCOME	1,027,830	1,000	1,000	1,000	1,000	1,000	1,000
INTEREST INCOME	124,773	33,000	20,820	174,816	38,338	106,254	51,104
OPERATING INCOME	9,661,110	8,889,000	9,762,320	10,890,366	11,718,198	12,486,845	13,050,675
OPERATING EXPENDITURES	(5,524,097)	(7,659,320)	(7,172,368)	(7,279,403)	(7,477,296)	(7,681,804)	(7,343,160)
NET INCOME EXCLUDING DEP.	4,137,013	1,229,680	2,589,952	3,610,963	4,240,902	4,805,041	5,707,515
IMPACT FEES	366,456	200,000	200,000	200,000	200,000	200,000	200,000
SHORT-TERM FINANCING							
NET BOND PROCEEDS			14,500,000		6,125,000		
COST OF ISSUANCE (PROCEEDS)		0	81,000	0	34,200	0	0
COST OF ISSUANCE (EXP.)		0	(81,000)	0	(34,200)	0	0
OTHER CONTRIBUTIONS	354,475	650,000	516,000	516,000	516,000	516,000	516,000
CAPITAL OUTLAY	(197,620)	(515,568)	(728,149)	(620,000)	(620,000)	(620,000)	(620,000)
SHORT-TERM DEBT							
DEBT SERVICE (NEW)		0	(213,000)	(638,000)	(638,000)	(638,000)	(925,000)
DEBT SERVICE	(1,017,494)	(1,014,000)	(1,012,000)	(1,011,000)	(1,014,000)	(1,009,000)	(1,018,000)
OTHER INCOME & EXPENSE	(494,183)	(679,568)	13,262,851	(1,553,000)	4,569,000	(1,551,000)	(1,847,000)
GENERATED FOR CAPITAL	3,642,830	550,112	15,852,803	2,057,963	8,809,902	3,254,041	3,860,515
CAPITAL IMPROVEMENTS	(2,392,384)	(3,783,053)	(12,744,000)	(7,630,000)	(4,371,000)	(7,023,000)	(4,300,000)
BEGINING CASH BALANCE	5,316,077	6,566,523	3,333,582	6,442,385	870,348	5,309,250	1,540,291
CASH INCREASE/(DECREASE)	1,250,446	(3,232,941)	3,108,803	(5,572,037)	4,438,902	(3,768,959)	(439,485)
ENDING BALANCES	6,566,523	3,333,582	6,442,385	870,348	5,309,250	1,540,291	1,100,806
AMOUNT RESTRICTED							
DEBT SERVICE COVERAGE	4.07	1.21	2.11	2.19	2.57	2.92	2.94
RED RATE CHANGE	0%	10%	10%	10%	9%	6%	5%
Cash Reserve Ratio	119%	44%	90%	12%	71%	20%	0
Minimum Reserve	552,410	765,932	717,237	727,940	747,730	768,180	734,316
Ending Reserve Available for Capital	6,014,113	2,567,650	5,725,148	142,408	4,561,520	772,111	366,490
DEBT SERVICE % OF GROSS OPERATING REVENUE	11%	11%	13%	15%	14%	13%	15%
RESIDENTIAL BILL FOR 1 ERU (or .25 acre)	4.49	4.94	5.43	5.97	6.51	6.90	7.25

**STORMWATER CIP BUDGET**  
**Five Year Projected Budget FY2020 -2024**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2018-19 (Calc'd from P6)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
53-10301	2720.05		<b>LIFT STATIONS</b>									
10301	53471046	2015-0434	LIFT STATION REHABILITATION AT 400 WEST AND 1300 SOUTH - NORTH SIDE	5	4	171,097						400,000
10301	53470852		LIFT STATION AT SURPLUS CANAL AND INDIANA REPAIRS	4	5	7,501						
10301	53471040		SWEDE TOWN LIFT STATION	3	0	40,514		700,000				
10301	534710104	2015-0435	VARIOUS PUMP STATIONS	5	5	50,000	50,000	50,000	50,000	50,000		
10301	53471038	2015-0140	OIL DRAIN LIFT STATION - GABION BASKETS RECONSTRUCTION	5	4	0						58,000
10301	534710103	2015-0135	SD LIFT STATION AT 650 WEST AND 500 NORTH IMPROVEMENTS	4	4	15,000	14,000					107,500
10301		2015-0144	HARTLAND LIFT STATION ABANDONMENT	1	5	0						50,000
10301		2015-0145	300 WEST 1300 SOUTH LIFT STATION ABANDONMENT	1	2	0						50,000
						\$ 284,112	\$ 64,000	\$ 750,000	\$ 50,000	\$ 50,000	\$ -	\$ 665,500
53-10301	2730.20		<b>DETENTION BASINS</b>									
53-10301	2730.12		<b>COLLECTION MAINS</b>									
	53470882	2017-2101	LEE DRAIN - PIPE OPEN CHANNEL WEST OF PIONEER ROAD	5	4	60,000		700,000				
	53470974		ORANGE STREET STORM DRAIN - NORTH TEMPLE TO I-80	5	0	45,000						500,000
	53470835	2015-0142	MIDDLE BRIGHTON RAILROAD CULVERT REHABILITATION	5	4	0		20,000				260,000
		2017-2034	RED BUTTE CREEK CULVERT AT 900 SOUTH - LINER	5	4	0					300,000	
	534701001	2017-2100	PIPE REPLACEMENT AT 750 S 1100 EAST	4	5	3,000						
	534700998	2016-0746	ABANDONMENT OF STORMWATER DITCH FROM WARM SPRINGS ROAD TO THE NORTHWEST DRAIN	4	4	10,000	60,000	250,000				
	534700997	2017-2098	PIPE REPLACEMENT AT 746 SOUTH ELIZABETH	3	5	5,250						
		2015-0131	REPAIR OUTLETS ON THE LEE DRAIN AT 4800 WEST	3	4	0			21,000	170,000		
	53470970	2016-0853	DITCH BANK EROSION PROTECTION - 600 NORTH 550 WEST	2	3	6,039	10,000	60,000				
	53470937	2015-0130	WQ - MONTAGUE CUTOFF- NEW 18" STORM DRAIN	4	0	0						61,500
		2015-0584	FOOTHILL DRIVE (2800 E) - EMIGRATION CREEK TO 2300 EAST	4	0	0						500,000
	53470881	2015-0143	1500 EAST STORM DRAIN	3	0	0				203,000		
	534701000	2016-0750	1700 SOUTH STORM DRAIN, FROM 2100 EAST TO EMIGRATION CREEK	3	0	211,811	1,100,000	1,100,000				
		2015-0585	600 EAST - 900 SOUTH TO THE AVENUES	2	0	0						4,200,000
	53470995		PARLEY CREEK STORM WATER OUTFALL			11,766						
	53470994		CITY DRAIN CROSSING AT HUNTER STABLES			259,175						
	534701013		1700 S 18" STORM DRAIN FROM 1700 E TO 1900 E			399,000						
	53470988		7200 WEST AND NORTH TEMPLE CULVERT REPLACEMENT AND CANAL REHAB			0	250,000					
		2016-0855	NORTHWEST QUADRANT STORMWATER BETTERMENTS	5	5	0						14,000,000
		2018-1040	PIPING OF GOGGIN DRAIN AT HAROLD GATTY DRIVE	3	4	0						335,300
						\$ 1,011,040	\$ 1,420,000	\$ 2,130,000	\$ 21,000	\$ 373,000	\$ 300,000	\$ 19,856,800
			<b>CITY, COUNTY, STATE AND MISC. DRIVEN PROJECTS</b>									
	53470979		PROGRAM MANAGEMENT TOOLS	5	5	0	150,000					
10301	53470947	2016-0736	INDIANA AVENUE STORM DRAIN REDWOOD ROAD TO 3400 WEST	4	0	128,175						
10301	53470972		GLADIOLA AVE PHASE 1 - 500 SOUTH TO 900 SOUTH			869,550						
10301	53470946	2015-0436	STORM DRAIN CITY/COUNTY/STATE PROJECTS	5	5	0	150,000	150,000	150,000	150,000	150,000	
10301	534720005	2017-2033	STORMWATER RECIEVING STATION	4	4	9,000	150,000					
10301	53470971	2016-0741	1300 EAST - STORM DRAIN	3	4	377,165	1,200,000					
	53470936	R18-0054	NEW STORM DRAIN ON 5500 WEST FROM 700 SOUTH CUL-DE-SAC TO THE NORTH			111,515	1,500,000					
10301	513000039	2015-0723	SURPLUS CANAL ENCROACHMENT AND PERMITTING	5	5	25,000	50,000	50,000	50,000	50,000	50,000	
			700 SOUTH SD, MIDDLE BRIGHTON TO 5600 WEST			0	800,000	800,000	800,000			
			2700 SOUTH - HIGHLAND TO 20TH EAST			0	250,000					
			1500 SOUTH - REDWOOD TO 2700 WEST			0	800,000					
			OVERLAY - VARIOUS			0			750,000	750,000		

**STORMWATER CIP BUDGET**  
**Five Year Projected Budget FY2020 -2024**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2018-19 (Calc'd from P6)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
	534700999	2015-0126	700 WEST - 2100 SOUTH TO 1700 SOUTH - PIPING OF OPEN DITCH	4	3	0	1,000,000					
			LOCAL STREET DISTRICT 1 & 7			0	500,000					
			500 EAST - 1700 SOUTH TO 2700 SOUTH			0	800,000					
			2000 EAST - PARLEY'S TO CITY LIMIT			0	250,000					
			900 SOUTH - 900 WEST TO 300 WEST, WEST TEMPLE TO 900 EAST			0	1,000,000					
			300 WEST - 900 SOUTH TO 2100 SOUTH			0		550,000	550,000			
			900 EAST - HOLLYWOOD TO 2700 SOUTH			0		1,300,000				
			100 SOUTH - NORTH CAMPUS DRIVE TO 900 EAST			0		275,000				
			LOCAL STREETS DISTRICT 3 & 6			0		500,000				
			200 SOUTH - 400 WEST TO 900 EAST			0			125,000	125,000		
			LOCAL STREETS DISTRICTS 2 & 5			0			625,000			
			1100 EAST HIGHLAND , RAMONA TO WARNOCK			0				2,200,000		
			1100 EAST - 900 SOUTH TO RAMONA			0				900,000		
			1700 EAST - 1700 SOUTH TO 2700 SOUTH			0				875,000		
			300 NORTH - 300 WEST TO 1000 WEST			0				250,000		
			LOCAL STREETS DISTRICT 4 & 7			0				500,000		
			VIRGINIA STREET - SOUTH TEMPLE TO 11TH AVE			0					1,700,000	
			1300 EAST - 2100 SOUTH TO 3000 SOUTH			0					550,000	
			W TEMPLE - NORTH TEMPLE TO 400 SOUTH			0					250,000	
			LOCAL STREETS 3 & 6			0					500,000	
			2100 SOUTH - 700 EAST TO 1700 EAST			0						2,000,000
			LOCAL STREETS DISTRICT 1, 4 & 5			0						500,000
		Bond Alternativ	GLADIOLA STREET - 900 SOUTH TO CALIFORNIA			0						
		Bond Alternativ	300 WEST - 400 SOUTH TO 900 SOUTH			0						
		Bond Alternativ	WAKARA WAY - FOOTHILL DRIVE TO CHIPETA WAY			0						
						\$ 1,520,406	\$ 8,600,000	\$ 3,625,000	\$ 3,050,000	\$ 5,800,000	\$ 3,200,000	\$ 2,500,000
			<b>PUBLIC UTILITY DEFINED PROJECTS</b>									
	534701008	2016-1200	CLEAN OUT REHABILITATION 2018/19	4	5	75,000	100,000	100,000	100,000	100,000	100,000	
10301	53470977		NORTHWEST DRAIN - IMPROVE BOOM DEPLOYMENT LOCATION AT BOY SCOUT DRIVE	5	3	15,000						
10301		2016-1270	URBAN WETLAND TREATMENT FACILITY AT FAIRMONT PARK - PRE-DESIGN	3	0	0		20,000				
10301		2016-0854	GREEN INFRASTRUCTURE AT HOOTEN BUILDING -ROOF DRAIN INFILTRATION	2	0	0	10,000	30,000				
10301	53470973	2016-1086	STORM WATER QUALITY - DESIGN FOR MAJOR OUTFALLS	3	0	100,000	100,000	100,000				
10301		2015-0132	WQ - WETLANDS TREATMENT FACILITY AT BOY SCOUT DRIVE	1	0	0						1,000,000
						\$ 190,000	\$ 210,000	\$ 250,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 1,000,000
			<b>RIPARIAN CORRIDOR PROJECTS</b>									
10301	534926		EMIGRATION IMPROVEMENTS @ BONNEVILLE GOLF COURSE R03A,R03B,R04,R05A,R05B	4	4	9,459						
10301	53473027	2015-0138	WQ - ROTARY PARK RCO IMPROVEMENTS AND WATER QUALITY FEATURE	4	3	0		250,000				
	STW-1		LEM_R02B , LOWER HOGLE ZOO	3	4	0		25,000	300,000			
10301	534922	2015-0581	LRB_L05A: VA MEDICAL CENTER – BELOW FOOTHILL DRIVE	2	4	0						121,000
10301	534912	2015-0560	UCC_R11C: GUARD SHACK GATE AREA	2	4	0						195,000
10301	534920	2015-0556	UCC_R11A: ELBOW TURN	2	4	0						80,000
10301	534910	2015-0559	LCC_R01B: UPPER FREEDOM TRAIL AREA	2	4	0						164,500
10301	534911	2015-0557	LCC_R01C: LOWER FREEDOM TRAIL AREA	2	4	0						150,000
10301	534918	2015-0578	LCC_R01D02A: UPPER MEMORY GROVE PARK	2	4	0						180,000
10301	534919	2015-0579	LRB_R03: UNIVERSITY – ABOVE CHIPETA WAY	2	4	0						85,000
10301	534923	2015-0582	LRB_R02: UNIVERSITY – BELOW RED BUTTE GARDEN	2	4	0						85,000
10301		2015-0580	UEM_R17: ABOVE DEBRIS BASIN (ROTARY PARK)	2	4	0						10,000
10301		2015-0577	LPC_R05C: MIDDLE SUGARHOUSE PARK	2	4	0						250,000

**STORMWATER CIP BUDGET**  
**Five Year Projected Budget FY2020 -2024**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2018-19 (Calc'd from P6)	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
10301		2015-0576	LPC_R05B: SUGARHOUSE PARK – HEAR HIGHLAND HIGH TRACK	2	4	0						130,000
10301		2015-0575	LPC_R05A: UPPER SUGARHOUSE PARK	2	4	0						160,000
10301		2016-1201	1700 SOUTH STORM WATER TREATMENT FACILITY	3	0	0			250,000			250,000
10301	53471050	2015-0141	WQ - 10TH NORTH LIFT STATION WATER QUALITY IMPROVEMENTS	5	0	88,652	1,700,000					
10301		2015-0136	LRB_R05C; SUNNYSIDE PARK	1	1	0						173,000
10301		2015-0610	RED BUTTE AT 1300 EAST - RIPARIAN ENHANCEMENTS	2	0	0						10,000
10301	534928	2015-0721	RIPARIAN CORRIDOR SIGNS	2	0	0						50,000
10301		2015-0466	LEM_R03A:&NBSP; BONNEVILLE GOLF COURSE - UPPER	3	3	0						127,000
10301		2015-0467	LEM_R04:&NBSP; BONNEVILLE GOLF COURSE - BELOW STORM DRAIN OUTLET GULLY	3	3	0						200,000
10301		2015-0558	LEM_R01: ROTARY GLEN PARK	2	4	0						16,000
10301		2017-2085	CORNELL LIFT STATION WATER QUALITY IMPROVEMENTS - CONSTRUCTION	2	0	0						700,000
						\$ 98,111	\$ 1,700,000	\$ 275,000	\$ 550,000	\$ -	\$ -	\$ 3,136,500
			<b>LOCAL AREA PROJECTS ( * WORK BY CITY CREWS)</b>									
10301	534701007	2015-0437	VARIOUS PROJECTS	5	5	100,000	100,000	100,000	100,000	200,000	200,000	
10301	534701006	2015-0439	AVENUE CROSSWALKS / SID VARIOUS STREETS -DIP STONE REPLACEMENT	3	4	50,000	50,000	50,000	50,000	50,000	50,000	
10301	534701005	2015-0440	AVENUE CROSSWALKS AND ADA RAMPS	3	0	50,000	50,000	50,000	50,000	50,000	50,000	
10301	534701004	2015-0438	CONTRIBUTIONS BY DEVELOPERS	3	0	400,000	400,000	400,000	400,000	400,000	400,000	
	53475005		STORM DRAIN BOX DECK REPLACEMENT 2017/2018			79,385						
						\$ 679,385	\$ 600,000	\$ 600,000	\$ 600,000	\$ 700,000	\$ 700,000	\$ -
			<b>MASTER PLAN PROJECTS</b>									
		2016-0776	MP35 CULVERT UPGRADES	3	5	0						190,400
		2016-0979	NORTH JOHN GLENN NEW 48 " LINE	4	4	0						3,480,000
		2016-1195	BECK STREET TRUCK REPLACEMENT FROM 200 SOUTH AND 300 WEST TO STATE STREET AND 500 SOUTH	4	3	0						5,449,951
		2016-0758	MP2 FOOTHILL CULVERT - EMIGRATION CREEK AT 2100 EAST	3	3	0						3,000
		2016-0800	MP66 PIPE UPSIZE	3	3	0						16,200
		2016-0788	MP51 EMIGRATION CREEK CHANNEL	3	3	0						22,000
		2016-0789	MP52 NEW 1700 EAST STORM DRAIN	3	3	0						31,000
		2016-0796	MP60 NEW PIPE AND OUTFALL	3	3	0						32,300
		2016-0770	MP21 200 GATSBY POWER PLANT	3	3	0						42,000
		2016-0759	MP3 SUGARHOUSE PARK TELEMTRY	3	3	0						50,000
		2016-0760	MP6 1700 S DETENTION BASIN TELEMTRY	3	3	0						50,000
		2016-0797	MP62 WYOMING STORM DRAIN	3	3	0						51,000
		2016-0805	MP75 PIPE UPSIZE	3	3	0						57,900
		2016-0798	MP63 PIPE UPSIZE	3	3	0						63,200
		2016-0809	MP82 400 SOUTH UPSIZE	3	3	0						63,800
		2016-0801	MP67 PIPE CAPACITY UPGRADES	3	3	0						85,800
		2016-0811	MP84 PIPE UPSIZE	3	3	0						94,200
		2016-0795	MP59 I-80/I-215 DETENTION BASIN	3	3	0						95,000
		2016-0814	MP88 NEW STORM DRAIN COLLECTOR	3	3	0						112,488
		2016-0799	MP64 PIPE UPSIZE	3	3	0						131,700
		2016-0807	MP78 PIPE UPSIZE	3	3	0						170,000
		2016-0784	MP46 SOUTH TEMPLE/FOLSOM AVENUE STREET RECONSTRUCTION	3	3	0						178,000
		2016-0802	MP69 PIPE UPSIZE	3	3	0						198,200
		2016-0806	MP76 NEW STORM DRAIN COLLECTOR	3	3	0						219,785
		2016-0787	MP50 9TH AVENUE STORM DRAIN	3	3	0						267,000
		2016-0808	MP79 WASATCH DRIVE IMPROVEMENTS	3	3	0						173,000



**STORMWATER UTILITY CAPITAL PURCHASES BUDGET**  
**Five Year Projected Budget FY2020-2024**

COST CENTER	OBJECT CODE	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	Comment \$	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
53-10201	2710.10			LAND										
								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
								0	0	0	0			0
	2750.10			MOTIVE REPLACEMENT AUTO & TRUCK										
				VARIOUS						400,000	400,000	400,000	400,000	
5310701	2750.10			3/4 TON TRUCK EXTENDED CAB WITH CABIN CHASSIS 4X4										
5310201	2750.10			3/4 TON TRUCK 4X4										
5310701	2750.10			3/4 TON W/UTILITY BED 4X4										
5310701	2750.10			3/4 TON W/UTILITY BED 4X4'				28,961						
5310201	2750.10		36840	FORD 1 TON CAB-N-CHASSIS WITH DUMP BED				28,961						
5310201	2750.10		36900	GMC 3/4 TON 4WD PICK-UP				34,498						
5310201	2750.10		33520	ESCAPE SUV				23,500						
5310201	2750.10			CLUB CAR CARRY ALL 500 (4)				52,632						
5310201	2750.10			10 WHEEL DUMP TRUCK										
5310301	2750.10			CHEV OR SIMILAR MID-SIZED 4X4 PICK UP W/BED COVER	Jason				30,000					
5310201	2750.10		36010	Replace Mack GU713	Randy				455,149					
5310201	2750.10		36080	Replace Ford F250 W/Dump Bed	Randy				41,500					
5310201	2750.10		36150	Replace Mack Granite	Randy				146,000					
								\$ 168,552	\$ 672,649	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ -
	2750.30			FIELD MAINTENANCE EQUIPMENT										
				VARIOUS						180,000	180,000	180,000	180,000	
5310201				VACTOR TRUCK				200,000						
5310201				75618000 6"-18" IPS BUTT FUSION MACHINE GAS HIGH FRC CYL. (Includes insert)				52,068						
5310201				CM-958H SED CEMENT MIXER 9 CF HONDA ENGINE				5,597						
5310201				SAND MASTER (SAND BAGGER)				12,241						
5310201				LOAD KING TRAILER 55 TON				69,260						
				CATERPILLAR 420F2 BACKHOE										
				SELF PROPELLED PIPE FUSION MACHINE										
5310201				BACKHOE BUYBACK PROGRAM				9,000						
5310201				TRACK EXCAVATOR W/DOZER BLADE (REPLACE 36870)										
5310201			NEW	LINKBILT AMI 54" ROOT RAKE	Randy				7,000					
5310201			NEW	HAULING PIPE	Randy				8,500					
								\$ 348,166	\$ 15,500	\$ 180,000	\$ 180,000	\$ 180,000	\$ 180,000	\$ -
	2760.30			TELEMETERING										
5310201				RADIO REPLACEMENT				40,086						
5310201				VARIOUS				5,000	40,000	40,000	40,000	40,000	40,000	
								\$ 45,086	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ -
	2760.50			OFFICE EQUIPMENT										
								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	2760.90			OTHER EQUIPMENT										
5310201				ENCLOSED TRAILER										
5310201				DUEL REEL AIR COMPRESSOR										
5310201				2 ECO FRIENDLY PUMPS										
5310201				3 AUTOMATIC COMPOSITE SAMPLERS										
5310201				VARIOUS				5,000						
5310201				CEMENT MIXER										
5310201				JETSCAN VIDEO NOZZLE										
5310201				HERBICIDE SPRAYER PUMP SYSTEM										
5310201				60" ROTARY EXCAVATOR MOWER COMPLETE										
								\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



**STORMWATER UTILITY CAPITAL PURCHASES BUDGET  
Five Year Projected Budget FY2020-2024**

COST CENTER	OBJECT CODE	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	Comments	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
				TOTAL CAPITAL OUTLAY				\$ 566,804	\$ 728,149	\$ 620,000	\$ 620,000	\$ 620,000	\$ 620,000	\$ -



**Street Lighting Utility- Budget Summary and Cash Flow**

**STREET LIGHTING UTILITY  
ENTERPRISE FUND  
BUDGET SUMMARY  
FY 2020-2022**

<b>SOURCES</b>	ACTUAL 2017-18	AMENDED BUDGET 2018-19	PROJECTED ACTUAL 2018-19	<b>PROPOSED BUDGET 2019-20</b>	FORECAST BUDGET 2020-21	FORECAST BUDGET 2021-22
<b>REVENUES</b>						
STREET LIGHTING FEES	\$ 4,198,227	\$ 4,170,000	\$ 4,198,227	<b>\$ 4,198,227</b>	\$ 4,198,227	\$ 4,198,227
INTEREST INCOME	94,979	52,000	52,000	<b>30,000</b>	29,000	29,000
OTHER REVENUES	2,991	9,000	11,000	<b>9,000</b>	9,000	9,000
TOTAL REVENUES	<b>\$ 4,296,197</b>	<b>\$ 4,231,000</b>	<b>\$ 4,261,227</b>	<b>\$ 4,237,227</b>	<b>\$ 4,236,227</b>	<b>\$ 4,236,227</b>
<b>OTHER SOURCES</b>						
GRANTS & OTHER RELATED REVENUES	195,808	-	-	-	-	-
TRANSFERS FROM GENERAL FUND	20,000	20,000	20,000	<b>20,000</b>	20,000	20,000
IMPACT FEES	-	-	-	-	-	-
BOND PROCEEDS	-	-	-	-	-	-
TOTAL OTHER SOURCES	<b>215,808</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>
<b>TOTAL SOURCES</b>	<b>\$ 4,512,005</b>	<b>\$ 4,251,000</b>	<b>\$ 4,281,227</b>	<b>\$ 4,257,227</b>	<b>\$ 4,256,227</b>	<b>\$ 4,256,227</b>
<b>EXPENSES &amp; OTHER USES</b>						
<b>EXPENDITURES</b>						
PERSONNEL SERVICES	\$ 206,367	\$ 198,307	\$ 198,307	<b>\$ 281,575</b>	\$ 292,836	\$ 304,548
OPERATING & MAINTENANCE	462	7,300	7,300	<b>7,300</b>	7,446	7,596
TRAVEL & TRAINING	1,368	3,000	3,000	<b>3,000</b>	3,060	3,121
UTILITIES	850,841	990,900	990,900	<b>1,010,900</b>	970,422	937,223
TECHNICAL SERVICES	1,035,264	1,720,028	1,720,028	<b>1,638,204</b>	1,523,964	1,503,287
DATA PROCESSING	1,117	-	-	-	-	-
FLEET MAINTENANCE	-	-	-	-	-	-
ADMINISTRATIVE SERVICE FEE	32,450	20,000	20,000	<b>20,000</b>	20,400	20,808
PAYMENT IN LIEU OF TAXES	-	-	-	-	-	-
RISK MANAGEMENT	-	-	-	-	-	-
TRANSFERS TO GENERAL FUND	-	-	-	-	-	-
OTHER CHARGES AND SERVICES	14,017	2,406	2,406	<b>2,298</b>	2,613	2,665
TOTAL EXPENDITURES	<b>2,141,886</b>	<b>2,941,941</b>	<b>2,941,941</b>	<b>2,963,277</b>	<b>2,820,741</b>	<b>2,779,248</b>
<b>OTHER USES</b>						
CAPITAL OUTLAY	-	-	-	-	-	-
CAPITAL IMPROVEMENT BUDGET	1,898,666	2,621,414	2,605,000	<b>1,725,000</b>	2,360,000	2,025,000
DEBT SERVICES	105,927	103,000	103,000	<b>103,000</b>	191,000	190,000
TOTAL OTHER USES	<b>\$ 2,004,593</b>	<b>\$ 2,724,414</b>	<b>\$ 2,708,000</b>	<b>\$ 1,828,000</b>	<b>\$ 2,551,000</b>	<b>\$ 2,215,000</b>
TOTAL USES	<b>\$ 4,146,479</b>	<b>\$ 5,666,355</b>	<b>\$ 5,649,941</b>	<b>\$ 4,791,277</b>	<b>\$ 5,371,741</b>	<b>\$ 4,994,248</b>
<b>EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES</b>	<b>\$ 365,526</b>	<b>\$ (1,415,355)</b>	<b>\$ (1,368,714)</b>	<b>\$ (534,050)</b>	<b>\$ (1,115,514)</b>	<b>\$ (738,021)</b>
<b>OPERATING CASH BALANCES</b>						
BEGINNING JULY 1	\$ 5,472,718	\$ 5,838,244	\$ 5,838,244	<b>\$ 4,469,530</b>	\$ 3,935,480	\$ 2,819,966
ENDING JUNE 30	\$ 5,838,244	\$ 4,422,889	\$ 4,469,530	<b>\$ 3,935,480</b>	\$ 2,819,966	\$ 2,081,945
Cash Reserve Ratio	273%	150%	152%	132.8%	100.0%	74.9%
<b>Cash reserve goal above 10%</b>						

**STREET LIGHTING UTILITY  
CASH FLOW  
FY 2020 BUDGET  
AND FY 2021-2024 FORECAST**

	Actual YEAR 2017-2018	Projected YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-2023	BUDGET YEAR 2023-2024
STREET LIGHTING SALES	4,198,227	4,198,227	4,198,227	4,198,227	4,198,227	4,198,227	4,198,227
OTHER INCOME	2,991	11,000	9,000	9,000	9,000	9,000	9,000
INTEREST INCOME	94,979	52,000	30,000	29,000	29,000	29,000	29,000
OPERATING INCOME	4,296,197	4,261,227	4,237,227	4,236,227	4,236,227	4,236,227	4,236,227
OPERATING EXPENSES	(2,141,886)	(2,941,941)	(2,963,277)	(2,820,741)	(2,779,248)	(2,840,922)	(2,904,074)
NET INCOME EXCLUDING DEP.	2,154,311	1,319,286	1,273,950	1,415,486	1,456,979	1,395,305	1,332,153
BOND PROCEEDS	-	-	-	-	-	-	-
OTHER CONTRIBUTIONS	215,808	20,000	20,000	20,000	20,000	20,000	20,000
CAPITAL OUTLAY	-	-	-	-	-	-	-
DEBT SERVICE	(105,927)	(103,000)	(103,000)	(191,000)	(190,000)	(190,000)	(190,000)
OTHER INCOME & EXPENSE	109,881	(83,000)	(83,000)	(171,000)	(170,000)	(170,000)	(170,000)
GENERATED FOR CAPITAL	2,264,192	1,236,286	1,190,950	1,244,486	1,286,979	1,225,305	1,162,153
CAPITAL IMPROVEMENTS	(1,898,666)	(2,605,000)	(1,725,000)	(2,360,000)	(2,025,000)	(2,025,000)	(1,525,000)
BEGINING CASH BALANCE	5,472,718	5,838,244	4,469,530	3,935,480	2,819,966	2,081,945	1,282,250
CASH INCREASE/(DECREASE)	365,526	(1,368,714)	(534,050)	(1,115,514)	(738,021)	(799,695)	(362,847)
ENDING BALANCE	5,838,244	4,469,530	3,935,480	2,819,966	2,081,945	1,282,250	919,403
<b>RATE CHANGE</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>
Cash Reserve Ratio	272.6%	151.9%	132.8%	100.0%	74.9%	45.1%	31.7%
Debt Service Coverage	20.34	12.81	12.37	7.41	7.67	7.34	7.01
DEBT SERVICE % OF GROSS OP. REV.	2.5%	2.4%	2.4%	4.5%	4.5%	4.5%	4.5%
RESIDENTIAL BILL OF 1 ERU (or 75 ft)	3.73	3.73	3.73	3.73	3.73	3.73	3.73

**STREET LIGHTING UTILITY**  
**CIP BUDGET**  
**Five Year Projected Budget 2020-2024**

COST CENTER	PROJECT NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR SPENT 2018-19	BUDGET YEAR 2019-20	2020-21	2021-22	2022-23	2023-24	DELAYED
48-48001	2730.80	<b>Base Level Projects</b>									
48001	48135	ARTERIAL & COLLECTOR STREET HE AND SYSTEM UPGRADES	2	4	300,000	300,000	300,000	300,000	300,000		
48001	48126	HIGH WATTAGE REPLACEMENTS				500,000	500,000	500,000	500,000	500,000	2,500,000
48001	48130	NEIGHBORHOOD HE AND SYSTEM UPGRADES	4	4	1,000,000	500,000	500,000	500,000	500,000	500,000	2,500,000
48001	48137	1300 EAST - STREET LIGHTS	3	3							
48001		LOCAL STREET IMPROVEMENT SUPPORT			50,000	200,000	200,000	200,000	200,000	200,000	1,000,000
		LIGHTING CONTROLS				200,000	500,000	500,000	500,000	300,000	
		<b>BASE LEVEL - TOTAL IMPROVEMENTS</b>			\$ 1,350,000	\$ 1,700,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 1,500,000	\$ 6,000,000
48-48101	2730.80	<b>TIER 1 Projects</b>									
48101	48131	Tier 1 Capital Replacements			5,000	5,000	5,000	5,000	5,000	5,000	595,000
48101		Tier 1 HE Upgrades					190,000				210,000
		<b>TIER 1 - TOTAL IMPROVEMENTS</b>			\$ 5,000	\$ 5,000	\$ 195,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 805,000
48-48201	2730.80	<b>TIER 2 Projects</b>									
48201	48132	Tier 2 Bad Wiring Replacement			365,000						
48201	48139	Tier 2 Capital Replacement			5,000	5,000	5,000	5,000	5,000	5,000	395,000
48201	48133	Tier 2 HE Upgrades			100,000						
		<b>TIER 2 - TOTAL IMPROVEMENTS</b>			\$ 470,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 395,000
48-48301	2730.80	<b>TIER 3 Projects</b>									
48301	48140	Tier 3 Capital Replacement			15,000	15,000	15,000	15,000	15,000	15,000	2,310,000
48301	48134	Tier 3 HE Upgrades			765,000		145,000				160,000
		<b>TIER 3 - TOTAL IMPROVEMENTS</b>			\$ 780,000	\$ 15,000	\$ 160,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 2,470,000
		<b>TOTAL CAPITAL IMPROVEMENTS</b>			\$ 2,605,000	\$ 1,725,000	\$ 2,360,000	\$ 2,025,000	\$ 2,025,000	\$ 1,525,000	\$ 9,670,000

## **APPENDIX A: Proposed Rate Structure and WRF Resolutions**





## **APPENDIX B: Rationale for New Positions**

## **Proposed New Public Utilities Positions and Organizational Changes for FY 2020 (in alphabetical order)**

### **Community and Engagement (one FTE and Organization Change)**

The Department has identified a need for one full time employee to assist with public engagement. This position, Community and Engagement Coordinator, would report to the Community and Engagement Manager, and support all print and television media needs, website, and social media functions. The position would also assist with community feedback and education on the Department's numerous programs, planning efforts, and capital improvement projects. Engagement related to planning and programmatic work includes watershed, water conservation, street lighting, and stormwater master planning. In addition, construction related to large capital projects, such as those related to the new WRF, the East-West Conveyance, and streets bond-related projects will have an impact on the community and require additional engagement.

The Department is proposing to move the Employee Development and Training Coordinator position to report to the Community and Engagement Manager. The Employee Development and Training Coordinator position currently reports to the Department Director.

The Department is proposing to reclassify the Community and Engagement Manager to a slightly higher pay classification to reflect additional management responsibility.

### **Development Services (one FTE)**

The Department has identified the need for a dedicated records technician in the Department's Development Services division. This is due to increased growth throughout the Department's service area, including within Salt Lake City, Cottonwood Heights, Mill Creek, and Holladay. This position will report to the Water Rights, Contracts, and Property Manager, and be responsible for maintaining and updating electronic files, including agreements, plans, general correspondence, and general administration files. This position will also assist with succession planning due to anticipated retirements in this area.

### **Engineering (five FTEs)**

See attached memorandum dated March 20, 2019 from Jason Brown, Chief Engineer to Laura Briefer, Director of Public Utilities.

### **GIS Leak Detection (one FTE)**

The Department has identified a need to add one FTE to support the Department's leak detection program. Currently there is only one position allocated to this task, and therefore no redundancy in this function. The leak detection function allows the Department to identify water loss caused by leaks in the water distribution system. Leaks in the system lead to water waste and lost revenue.

### **Maintenance and Operations (one FTE)**

The Department has identified the need for an additional Senior Water System Maintenance Worker. This position was approved in the Department's FY2019 budget.

However, the Department reclassified this position as a Maintenance Electrician IV in order to address a safety need for our emergency water crews. The Department is in a several year process of converting more than 90,000 water meters in to smart meters across the water service area. The Senior Water System Maintenance Worker is needed specifically to change large meters for industry, business, and institutional properties. This position also supports succession planning in the Maintenance and Operations Division. This employee will report to the Water System Maintenance Supervisors who will report to the Water Distribution System Manager.

### **Special Projects Manager Reclassification and Water Resources Reorganization**

The Department is proposing to reclassify the Special Projects Manager position to a Water Resources Manager position and create a Water Resources Division. The Water Resources Division will be responsible for administering the City's water rights, maintaining water supply and demand data, climate and energy initiatives, and water conservation programs. The Water Resources Manager will report to the Department Director, and oversee the Sustainability, Water Conservation, and Hydrology functions. The purpose of this change is to increase capacity to better address and coordinate recommended actions identified in the Department's updated Water Supply and Demand Plan, Drought Contingency Plan, and Water Conservation Plan. In addition, the state has increased reporting requirements related to water rights, water source sizing, and water loss, which this position and division will manage. Finally, this reorganization facilitates succession planning.

### **Sustainability (one FTE)**

The Department has identified a need for one full time employee to assist with energy management, energy and greenhouse gas reduction, and climate change projects. This position will report to the Water Resources Manager. This Sustainability Manager position is needed to ensure compliance with City energy initiatives and assist the Department with its climate change vulnerability assessments, mitigation, and adaptation planning. This includes the following:

- **The Comprehensive Energy Management Executive Order:** This City Executive Order requires that the Department prepare and implement energy management plans, and places requirements on renovation and new construction of the Department's facilities: <http://www.slcinfobase.com/PPAREO/#!WordDocuments/comprehensiveenergymanagementofsaltlakecityfacilities.htm>.
- **The Elevate Buildings Commercial Ordinance (Section 18.94.050):** This City ordinance requires that the Department prepare and submit energy benchmarking information to the Sustainability Department and to the public: [http://sterlingcodifiers.com/codebook/index.php?book\\_id=672&chapter\\_id=102505](http://sterlingcodifiers.com/codebook/index.php?book_id=672&chapter_id=102505)
- **Salt Lake City Department of Public Utilities Renewable Energy Plan (2015):** This plan identifies opportunities throughout the Department's infrastructure for the generation of renewable energy.
- **Salt Lake City Department of Public Utilities Wire to Water Efficiency Study (2018):** This study identifies capital and operational actions that the Department can take to reduce energy use. *The Department has estimated that implementation*

*of energy efficiency strategies identified in this study will result in a potential annual cost savings of \$200,000, and 4,000,000 kilowatt hours.*

- **Salt Lake City Department of Public Utilities Climate Change Vulnerability Assessment and Adaptation Plan (ongoing):** The Department is in its second year of a five-year scientific study with the University of Utah to identify climate risks related to water supply, water quality, and storm intensification. The study will result in an adaptation plan to mitigate identified climate risks.

### **Wastewater Pretreatment Program (four FTEs)**

The Department's Pretreatment Program is required by Section 403 of the Clean Water Act. The overall mission of the Pretreat Program is to provide protection to the Publicly Owned Treatment Works (POTW), protect the health and safety of collections and treatment staff and the environment from hazardous, toxic, and incompatible pollutant discharge into the sanitary sewer system and also promote the health and safety of the general public by minimizing the potential for sanitary sewer overflow events.

Four additional staff positions are requested for the Pretreatment Program:

- Fats, Oil, and Grease (FOG)/Sewer Rate Program Supervisor
- Pretreatment Inspector/Permit Writer
- Senior Wastewater Sampler/Inspector
- Administrative Assistant (WRF)

These positions are needed for the program to meet the demands of current city growth as well as planned industrial growth in the Northwest Quadrant. New federal wastewater discharge prohibitions have created additional work. Two recent regulatory examples relate to hazardous waste pharmaceuticals and dental amalgam. When compared to programs in cities of similar population and industrial influence, the Department's Pretreatment Program is understaffed. This shortfall was noted by the Utah Division of Water Quality (UDWQ) during their 2018 inspection. The UDWQ inspection findings report stated: *“With the growth of the permitting load and the dental program it is recommended that the city evaluate the need for additional staffing.”*

The FOG/Sewer Rate Program Supervisor will take a proactive role to reduce FOG loading into the collection system. Currently there are areas of the city the Collections team has to clean quarterly due to FOG buildup in the lines. The discharge of FOG material into the collection system can lead to sewer overflow and more rapid degradation of the collection system. The supervisor will also be tasked with ensuring sewer rates are properly assigned to commercial and industrial used based on pollutant loading.

### **Watershed Program (two Seasonal Positions)**

The Department has identified the need for two seasonal watershed worker positions during the summer. Recreation continues to increase in the City's watersheds in City Creek, Parleys, Big Cottonwood, and Little Cottonwood Canyons. This is resulting in potential impacts to water quality. Seasonal watershed workers help with upkeep of restroom

facilities at popular trailheads, stewardship of the Department's preserved lands, and public education under the Keep it Pure program.

TO: Laura Briefer, Director of Public Utilities  
BY: Jason Brown, P.E., Chief Engineer  
DATE: March 20, 2019  
SUBJECT: Request for five additional Engineering staff FTE's for fiscal year 2020

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### **Background, Purpose and Need**

The objective of this memorandum is to provide justification and recommendation for additional staff for the Engineering Division within Public Utilities.

The Engineering Division of the Department of Public Utilities has been going through dramatic changes in terms of updating our practices, organization, project elements, and work responsibilities to enhance our services for better accountability, performance, transparency, and efficiency in the delivery of engineering services to the Utility and the public. These changes coupled with changes in the industry have highlighted resource needs and workload stresses in our work environment that impede our ability and capacity for continued successful project delivery.

### **Summary**

We present the following justifications for increasing the in-house staff FTE's for the Engineering group:

#### **(1) The current and past CIP workload justifies more in-house staff.**

In 1994 Hughes, Heiss & Associates conducted an audit of the Engineering group. They recommended increasing the staff based on the CIP program funding at that time and concluded that using Consultants to fill in the production gap was not "cost effective". At the time, a reorganization of Engineering was done but no additional staff was added.

The total CIP program for water/sewer/drainage in 1994 when the audit was conducted was under \$10M. Currently it is over \$170M and the number of FTE's has remained basically the same (Figure 1 & Figure 2). The demands on the current staff are increasing as public outreach, engagement and education are drawing away time that was typically allocated for design and construction. Many of these critical activities we have been able to temper with advances in efficiencies using technologies but even with advances with technology, the technology requires staff time.

#### **(2) In-house staff is less expensive than using Consultants for the CIP workload.**

The average cost of the existing Engineering staff including overhead (7.72%) and labor additive (56.36%) is \$51.68 per hour. The average hourly cost which will be charged by Consultants for project engineers based on the most recent General Services SOQ's is approximately \$150 per hour. Doing work with City staff is approximately a third of the cost of using a Consultant. With new staff positions being limited, we have utilized outside consultants for much of the additional inspection and design. This method allows staff to manage approximately 2 to 4 times the number of projects depending on complexity. However, the costs to design and inspect the projects are generally 3 times more expensive because of reasons stated above.

#### **(3) Aging infrastructure requires additional staff to maintain cost effectiveness.**

The CIP budget levels is projected to increase, particularly with the Water Reclamation Plant where a process upgrade project will be required to meet permit requirements for nutrient removal. The Nutrient project is projected to be \$528 million over the next 7 years. The other programs (water/sewer/drainage/lighting) are also showing increased budget funding requirements due to aging infrastructure and regulatory requirements. Assuming 10% design/construction management cost and 30% vacation/sick/holiday discount, this CIP program will require 36 FTE's. The current staff level is 27.72 FTE's. The gap is currently being supplemented through consultant contracts, but as additional condition assessments have been completed, we are finding that the breadth of improvements necessary to maintain a high level of service to the community is expanding.

**(4) To reduce inspector overtime.**

The overtime cost for inspectors in 2018 was \$137k. Converting this cost to full time FTE's equates to 1.5 additional inspector FTE.

**RECOMMENDATION**

We are requesting the addition 5 of FTE's to the Engineering group based on the analysis discuss above. Specifically, we are recommending the following changes to the staffing document as outlined below.

New Staff Positions

- +3 E Tech II      E Tech II to support development in the Department service area, including Salt Lake County and the Northwest Quadrant.
- Justification      Based on current workload needs to assist in the inspection and drafting. Roughly 1/3 the cost will be to have in-house inspection rather than consultant contracted inspection. This can become a cost savings for the Department. Having internal staff inspect infrastructure has the added benefit of knowledge retention within the department rather than the external consultant. In addition, many of the existing inspection staff are approaching retirement age and hiring newer staff is in line with succession planning within the department.
- +2 Eng II/II      Project Engineer/Development Review Engineer
- Justification      As with the inspectors having internal staff design, manage and review the upcoming CIP projects will benefit the department with reducing the costs associated with having external consultants design, manage and review. The additional staff will also tackle the projected workload, aging infrastructure and regulatory requirements.

Below are two figures illustrating the relative need and impact of the City's robust capital improvement program. These are anecdotal but support the business case and workplan justification described above.

**NET CHANGE = +6 FTE by 5 new staff positions and reassignment of one staff position**

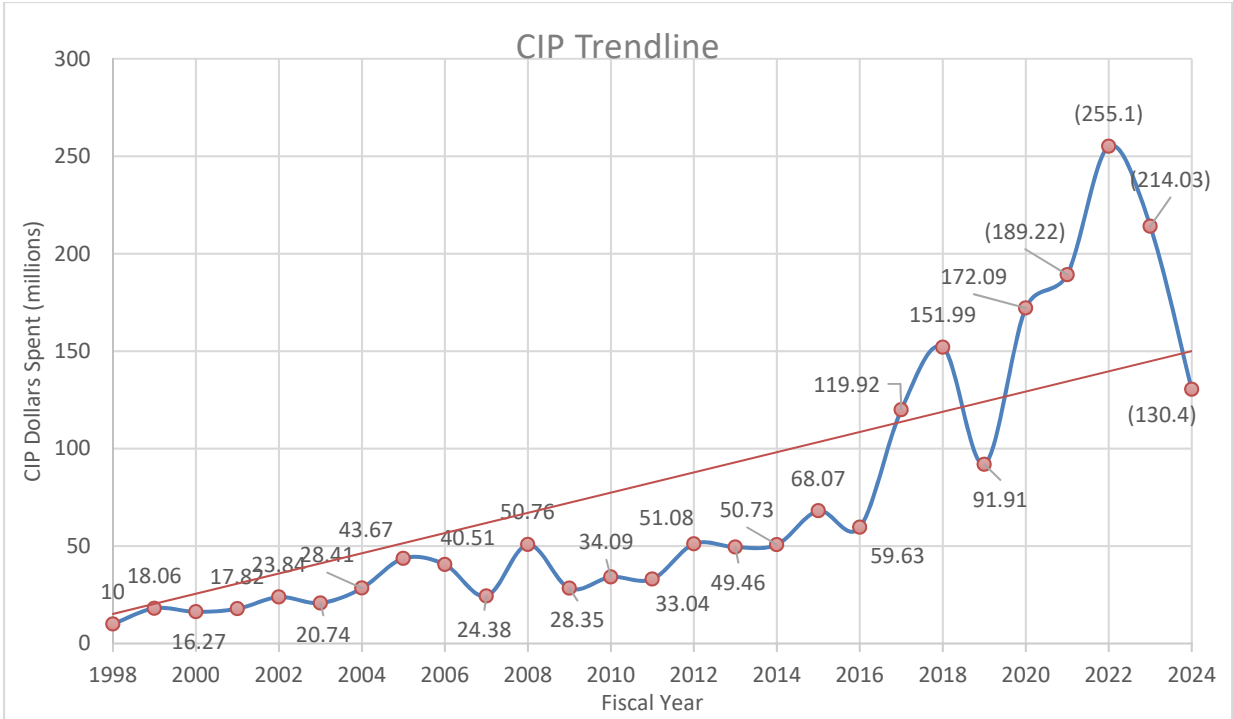


Figure 1 – CIP Trend line

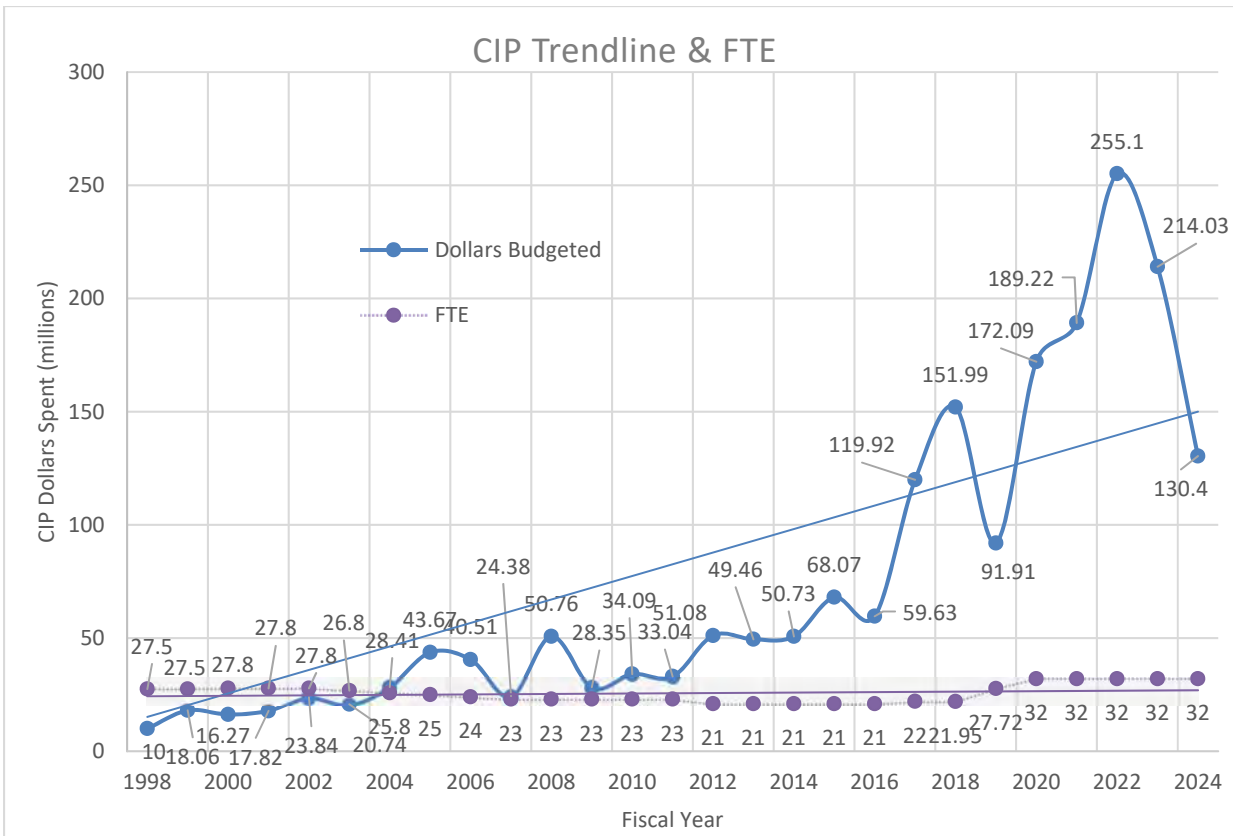


Figure 2 – CIP vs. Engineering group FTE staffing level



**APPENDIX C: Public Utilities' Energy Management and  
Greenhouse Gas Mitigation Projects**

## Public Utilities Energy Management and Greenhouse Gas Mitigation Projects

Environmental sustainability is at the root of the Department of Public Utilities' legacy and public ethic. Indeed, the Department's mission statement is "serving our community, protecting our environment." The Department has been a steward of water resources serving the Salt Lake Valley for more than a century. Public Utilities later took on the role of protecting public health and the environment through wastewater treatment and stormwater systems and developing street lighting as a self-sustaining utility.

One major component of this legacy is actively addressing the Department's energy use and greenhouse gas emissions, as climate change will have significant implications for Public Utilities' capacity to provide water services to its customers. Mayor Biskupski requested each City Department include as part of its FY2020 budget a demonstrated reduction of greenhouse gas emissions. The Department is providing a summary of efforts identified in the recommended budget that will contribute to this goal.

There are several City policies and goals that drive the Department's efforts regarding energy efficiency, greenhouse gas reduction, and other sustainability practices. These policies include:

- Comprehensive Energy Management of Salt Lake City Facilities Executive Order
- LEED Design Standards Executive Order
- Net-Zero Energy Buildings Executive Order
- Climate Positive 2040
- Elevate Buildings Ordinance

In addition to these governing City policies, the Department has also developed a Public Utilities Energy Policy to guide energy efficiency efforts for all operations and capital projects:

*SLCDPU uses energy wisely while continuing to exceed the expectations of those we serve. We implement prudent and environmentally responsible strategies and programs in our facilities and operations that minimize our energy use without sacrificing service reliability.*

The FY2020 recommended budget includes funding, both operational and capital, for several efforts that support the Department's Energy Policy and various City goals, ordinances, and Executive Orders. These projects have been identified in the Capital Plans for all enterprise funds. Each identified project has a sustainability component that will contribute to the fulfillment of the various requirements. Examples include:

- A Wire-to-Water Energy Efficiency Study was completed in January 2019 and identified an energy savings potential of 12%. This savings percentage translates to approximately \$200,000 and 4,000,000 kWh per year with all capital and operation improvements identified and recommended in the study. Five key projects were identified in the study whose implementation would result in 2,600

metric tons per year of avoided carbon emissions at an initial capital cost of \$2,525,000 with a 5.7-year payback period.

- Select Sources According to Energy Requirements
- Implement a Leak Detection Program
- Preserve Pressure from Parley's Water Treatment Plant
- Install Flow Meters at Pump Stations
- Optimize the Military Pump Station
- Within the Water Utility, the major upgrade projects at each of the three drinking water treatment plants will consider energy efficiency, reduction of greenhouse gases, and compliance with all executive orders and initiatives. There are also several other Water Utility capital projects that will contribute to the Department's overall sustainability goals, including pump and motor upgrades, the AMI meter replacement program, and designated funding to address specific projects recommended in the Wire-To-Water Energy Efficiency Study. The Parley's Canyon hydropower project design is budgeted for FY 2020, with completion anticipated by 2022. At this time, it is anticipated the project will provide a renewable energy source that is anticipated to generate \$126,600 per year in revenue.
- The Sewer Utility also includes several projects in the Capital Plan that will meet sustainability goals, including pump replacements, upgrades to existing reclamation facility, inflow and infiltration studies, and flow meter installation. Most significantly, the design of the new Water Reclamation Facility includes a Sustainability Task Force that is dedicated to the analysis and implementation of energy efficiency/greenhouse gas reduction improvements throughout the occupied buildings and process components of the plant.
- There are several lift station rehabilitation and abandonment projects identified in the Stormwater Capital Plan that will contribute to the achievement of sustainability goals. Rehabilitation projects may entirely replace the pumps and motors or significantly repair these components to reduce overall energy use of the lift station. The abandonment projects will remove a source of energy use altogether, again creating a positive effect on the Stormwater Utility's sustainability impact.
- The goal of the Street Lighting Utility is to have all street lights equipped with energy efficient technology by 2023. The Utility is on track to meet this goal. Data from 2018 indicates that more than 60% of street lights are energy efficient with approximately 3,580,650 kWh in savings since 2014. The high efficiency upgrade projects in the Capital Plan are planned solely to meet the energy efficiency goals for the Street Lighting Utility.



**APPENDIX D: Rate Change Comparisons and Customer Impacts**

## Water Rate Change Comparisons

### Comparison of Monthly Water Base Rate Options for City Customers

Meter Size (inches)	2019 Current Rate	2019 Rate Study	2020 Proposed Rate	Changes					
				Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
3/4	9.89	8.84	9.28	-1.05	-11%	0.44	5%	-0.61	-6%
1	9.89	11.56	12.14	1.67	17%	0.58	5%	2.25	23%
1 1/2	11.68	18.37	19.29	6.69	57%	0.92	5%	7.61	65%
2	12.68	26.55	27.88	13.87	109%	1.33	5%	15.20	120%
3	21.28	48.34	50.76	27.06	127%	2.42	5%	29.48	139%
4	22.78	72.86	76.50	50.08	220%	3.64	5%	53.72	236%
6	32.89	140.98	148.03	108.09	329%	7.05	5%	115.14	350%
8	59.11	222.71	233.85	163.60	277%	11.14	5%	174.74	296%
10	109.63	576.91	605.76	467.28	426%	28.85	5%	496.13	453%

### Comparison of Monthly Water Base Rate Options for County Customers

Meter Size (inches)	2019 Current Rate	2019 Rate Study	2020 Proposed Rate	Changes					
				Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
3/4	13.35	11.93	12.53	-1.42	-11%	0.59	5%	-0.82	-6%
1	13.35	15.61	16.39	2.25	17%	0.78	5%	3.04	23%
1 1/2	15.77	24.80	26.04	9.03	57%	1.24	5%	10.27	65%
2	17.12	35.84	37.64	18.72	109%	1.80	5%	20.52	120%
3	28.73	65.26	68.53	36.53	127%	3.27	5%	39.80	139%
4	30.75	98.36	103.28	67.61	220%	4.91	5%	72.52	236%
6	44.40	190.32	199.84	145.92	329%	9.52	5%	155.44	350%
8	79.80	300.66	315.70	220.86	277%	15.04	5%	235.90	296%
10	148.00	778.83	817.78	630.83	426%	38.95	5%	669.78	453%

\*Rate Study column is the Department's 2018 Comprehensive Water, Sewer and Stormwater Rate Study proposed change over the current rate column. The proposed rate is the proposed increase on top of the rate study rates

**Comparison of Water Monthly Usage Rate Options  
for City Residential Customers**

Flat Rate or Block	2019	2019	2020	Changes					
	Current Rate per ccf	Rate Study per ccf	Proposed Rate per ccf	Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
<b>Winter Rate Structure (November - March)</b>									
Flat Rate	1.35	1.30	1.37	-0.05	-4%	0.07	5%	0.02	1%
<b>Summer Rate Structure (April - October)</b>									
Block 1	1.35	1.30	1.37	-0.05	-4%	0.07	5%	0.02	1%
Block 2	1.85	1.78	1.87	-0.07	-4%	0.09	5%	0.02	1%
Block 3	2.57	2.47	2.59	-0.10	-4%	0.12	5%	0.02	1%
Block 4	2.74	2.63	2.76	-0.11	-4%	0.13	5%	0.02	1%

**Comparison of Water Monthly Usage Rate Options  
for County Residential Customers**

Flat Rate or Block	2019	2019	2020	Changes					
	Current Rate per ccf	Rate Study per ccf	Proposed Rate per ccf	Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
<b>Winter Rate Structure (November - March)</b>									
Flat Rate	1.82	1.76	1.84	-0.07	-4%	0.09	5%	0.02	1%
<b>Summer Rate Structure (April - October)</b>									
Block 1	1.82	1.76	1.84	-0.06	-3%	0.08	5%	0.02	1%
Block 2	2.50	2.40	2.52	-0.10	-4%	0.12	5%	0.02	1%
Block 3	3.47	3.33	3.50	-0.14	-4%	0.17	5%	0.03	1%
Block 4	3.70	3.55	3.73	-0.15	-4%	0.18	5%	0.03	1%

**Rate Structure (Same for City and County)**

Block	Current	Study	Proposed
Flat Rate	All Usage	All Usage	All Usage
Block 1	1 - 10 ccf	1 - 10 ccf	1 - 10 ccf
Block 2	11 - 30 ccf	11 - 30 ccf	11 - 30 ccf
Block 3	31 - 70 ccf	31 - 60 ccf	31 - 60 ccf
Block 4	>71 ccf	>61 ccf	>61 ccf



**Comparison of Monthly Usage Rate Options  
for City CII Customers**

Flat Rate or Block	2019	2019	2020	Changes					
	Current Rate per ccf	Rate Study per ccf	Proposed Rate per ccf	Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
<b>Winter Rate Structure (November - March)</b>									
Flat Rate	1.35	1.42	1.49	0.07	5%	0.07	5%	0.14	10%
<b>Summer Rate Structure (April - October)</b>									
Block 1	1.35	1.42	1.49	0.07	5%	0.07	5%	0.14	10%
Block 2	1.85	1.94	2.04	0.09	5%	0.10	5%	0.19	10%
Block 3	2.57	2.70	2.84	0.13	5%	0.14	5%	0.27	11%
Block 4	2.47	2.87	3.01	0.40	16%	0.14	5%	0.54	22%

**Comparison of Monthly Usage Rate Options  
for County CII Customers**

Flat Rate or Block	2019	2019	2020	Changes					
	Current Rate per ccf	Rate Study per ccf	Proposed Rate per ccf	Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
<b>Winter Rate Structure (November - March)</b>									
Flat Rate	1.82	1.92	2.01	0.09	5%	0.09	5%	0.19	10%
<b>Summer Rate Structure (April - October)</b>									
Block 1	1.82	1.92	2.01	0.09	5%	0.09	5%	0.19	10%
Block 2	2.50	2.62	2.75	0.12	5%	0.14	5%	0.26	10%
Block 3	3.47	3.65	3.83	0.18	5%	0.19	5%	0.36	11%
Block 4	3.33	3.87	4.06	0.54	16%	0.19	5%	0.73	22%

**Rate Structure (Same for City and County)**

Block	Current	Study	Proposed
Flat Rate	All Usage	All Usage	All Usage
Block 1	0-AWC	0-AWC	0-AWC
Block 2	AWC-300%	AWC-300%	AWC-300%
Block 3	300%-700%	300%-600%	300%-600%
Block 4	>700%	>600%	>600%

\*CII= Commercial, Industrial, and Institutional

\*AWC = Average Winter Consumption. "AWC-300%" means usage greater than a customer's AWC and less than or equal to



**Comparison of Water Monthly Usage Rate Options  
for City Irrigation Customers**

Flat Rate or Block	2019	2019	2020	Changes					
	Current Rate per ccf	Rate Study per ccf	Proposed Rate per ccf	Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
<b>Winter Rate Structure (November - March)</b>									
Flat Rate	1.85	1.71	1.80	-0.14	-8%	0.09	5%	-0.05	-3%
<b>Summer Rate Structure ( April - October)</b>									
Block 1	1.85	1.71	1.80	-0.14	-8%	0.09	5%	-0.05	-3%
Block 2	2.57	2.38	2.50	-0.19	-7%	0.12	5%	-0.07	-3%
Block 3	2.74	2.53	2.66	-0.21	-8%	0.13	5%	-0.08	-3%

**Comparison of Water Monthly Usage Rate Options  
for County Irrigation Customers**

Flat Rate or Block	2019	2019	2020	Changes					
	Current Rate per ccf	Rate Study per ccf	Proposed Rate per ccf	Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
<b>Winter Rate Structure (November - March)</b>									
Flat Rate	2.50	2.31	2.42	-0.19	-8%	0.12	5%	-0.07	-3%
<b>Summer Rate Structure ( April - October)</b>									
Block 1	2.50	2.31	2.42	-0.19	-8%	0.12	5%	-0.07	-3%
Block 2	3.47	3.21	3.37	-0.26	-7%	0.16	5%	-0.10	-3%
Block 3	3.70	3.42	3.59	-0.28	-8%	0.17	5%	-0.11	-3%

**Rate Structure (Same for City and County)**

Block	Current	Study	Proposed
Flat Rate	All Usage	All Usage	All Usage
Block 1	1CCF- Target Budget	1CCF- Target Budget	1CCF- Target Budget
	Target Budget up to 300% of Target Budget	Target Budget up to 300% of Target Budget	Target Budget up to 300% of Target Budget
Block 2	Over 300% of Target Budget	Over 300% of Target Budget	Over 300% of Target Budget

\* "Target budget" means the estimated amount of water consumed per acre, as established by the Public Utilities Director or his/her designee each year for customer based on factors including, but not limited to, evapotranspiration, and considering efficient water practices. A different target budget is established for each month of the irrigation season.

**Proposed Water Rate Change Customer Impacts**

**Water Rate Change  
Annual Impact on Select City Customers**

Account Type	Annual Usage	Meter Size	2019	2020	\$ Change	% Change
			Current Rate	Proposed Rate		
Residential Minimum Use	72 ccf	3/4	215.88	210.00	(5.88)	-2.72%
Residential Low Use	96 ccf	3/4	248.28	242.88	(5.40)	-2.17%
Residential Medium Use	255 ccf	3/4	559.17	556.95	(2.22)	-0.40%
Residential High Use	838 ccf	1	1,973.18	2,016.94	43.76	2.22%
Industrial Use	96,476 ccf	2	140,552.76	151,270.96	10,718.20	7.63%
Commercial Use	11,597 ccf	2	16,365.71	17,684.93	1,319.22	8.06%

**Water Rate Change  
Monthly Impact on Select City Customers**

Account Type	Monthly Usage	Meter Size	2019	2020	\$ Change	% Change
			Current Rate	Proposed Rate		
Residential Minimum Use	6 ccf	3/4	17.99	17.50	(0.49)	-2.72%
Residential Low Use	8 ccf	3/4	20.69	20.24	(0.45)	-2.17%
Residential Medium Use	21 ccf	3/4	46.60	46.41	(0.18)	-0.40%
Residential High Use	70 ccf	1	164.43	168.08	3.65	2.22%
Industrial Use	8,040 ccf	2	11,712.73	12,605.91	893.18	7.63%
Commercial Use	966 ccf	2	1,363.81	1,473.74	109.94	8.06%

**Water Rate Change  
Annual Impact on Select County Customers**

Account Type	Annual Usage	Meter Size	2019	2020	\$ Change	% Change
			Current Rate	Proposed Rate		
Residential Minimum Use	72 ccf	3/4	291.44	283.50	(7.94)	-2.72%
Residential Low Use	96 ccf	3/4	335.18	327.89	(7.29)	-2.17%
Residential Medium Use	255 ccf	3/4	754.88	751.88	(3.00)	-0.40%
Residential High Use	838 ccf	1	2,663.79	2,722.87	59.08	2.22%
Industrial Use	96,476 ccf	2	189,746.23	204,215.80	14,469.57	7.63%
Commercial Use	11,597 ccf	2	22,093.71	23,874.66	1,780.95	8.06%

**Water Rate Change  
Monthly Impact on Select County Customers**

Account Type	Monthly Usage	Meter Size	2019	2020	\$ Change	% Change
			Current Rate	Proposed Rate		
Residential Minimum Use	6 ccf	3/4	24.29	23.63	(0.66)	-2.72%
Residential Low Use	8 ccf	3/4	27.93	27.32	(0.61)	-2.17%
Residential Medium Use	21 ccf	3/4	62.91	62.66	(0.25)	-0.40%
Residential High Use	70 ccf	1	221.98	226.91	4.92	2.22%
Industrial Use	8,040 ccf	2	15,812.19	17,017.98	1,205.80	7.63%
Commercial Use	966 ccf	2	1,841.14	1,989.55	148.41	8.06%



## Sewer Rate Change Comparisons

### Comparison of Monthly Sewer Class Rate Changes

#### Flow \$ Per CCF

Class	2019	2019	2020	Changes					
	Current Rate	Rate Study	Proposed Rate	Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
1	1.86	1.94	2.29	0.08	4%	0.35	18%	0.43	23%
2	1.86	1.94	2.29	0.08	4%	0.35	18%	0.43	23%
3	1.86	1.94	2.29	0.08	4%	0.35	18%	0.43	23%
4	1.86	1.94	2.29	0.08	4%	0.35	18%	0.43	23%
5	1.86	1.94	2.29	0.08	4%	0.35	18%	0.43	23%
6	1.86	1.94	2.29	0.08	4%	0.35	18%	0.43	23%
7	Special Rate by Customer								

#### BOD \$ Per CCF

Class	2019	2019	2020	Changes					
	Current Rate	Rate Study	Proposed Rate	Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
1	0.78	0.68	0.80	-0.10	-13%	0.12	18%	0.02	3%
2	1.28	1.11	1.31	-0.17	-13%	0.20	18%	0.03	2%
3	2.10	1.83	2.16	-0.27	-13%	0.33	18%	0.06	3%
4	3.01	2.62	3.09	-0.39	-13%	0.47	18%	0.08	3%
5	3.80	3.29	3.88	-0.51	-13%	0.59	18%	0.08	2%
6	4.67	4.05	4.78	-0.62	-13%	0.73	18%	0.11	2%
7	Special Rate by Customer								

#### TSS \$ Per CCF

Class	2019	2019	2020	Changes					
	Current Rate	Rate Study	Proposed Rate	Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
1	0.40	0.49	0.58	0.09	4%	0.35	18%	0.18	45%
2	0.82	1.00	1.18	0.18	4%	0.35	18%	0.36	44%
3	1.39	1.70	2.01	0.31	4%	0.35	18%	0.62	44%
4	1.90	2.32	2.74	0.42	4%	0.35	18%	0.84	44%
5	2.46	3.01	3.55	0.55	4%	0.35	18%	1.09	44%
6	2.98	3.65	4.31	0.67	4%	0.35	18%	1.33	45%
7	Special Rate by Customer								

**Total Sewer Rate Per CCF**

Class	2019	2019	2020	Changes					
	Current Rate	Rate Study	Proposed Rate	Current to Rate Study		Rate Study to Proposed		Current to Proposed	
				\$	%	\$	%	\$	%
1	3.04	3.11	3.67	0.07	-13%	0.12	18%	0.63	21%
2	3.96	4.05	4.78	0.09	-13%	0.20	18%	0.82	21%
3	5.35	5.47	6.45	0.12	-13%	0.33	18%	1.10	21%
4	6.77	6.88	8.12	0.11	-13%	0.47	18%	1.35	20%
5	8.12	8.24	9.72	0.12	-13%	0.59	18%	1.60	20%
6	9.51	9.64	11.38	0.13	-13%	0.73	18%	1.87	20%
7	Special Rate by Customer								

**Class Structure**

Block	BOD Strength mg/l	TSS Strength mg/l
1	0-300	0-300
2	300-600	300-600
3	600-900	600-900
4	900-1200	900-1200
5	1200-1500	1200-1500
6	1500-1800	1500-1800
7	>1800	>1800

## Proposed Sewer Rate Change Customer Impacts

### Sewer Rate Change Annual Impact on Select City Customers

Account Type	Annualized Average Winter Water Usage (CCF)	2019	2020	\$ Changes	% Change
		Current Rate	Proposed Rate		
Residential Minimum Use	24 ccf	145.92	88.08	(57.84)	-39.64%
Residential Low Use	48 ccf	145.92	176.16	30.24	20.72%
Residential Medium Use	96 ccf	291.84	352.32	60.48	20.72%
Residential High Use	180 ccf	547.20	660.60	113.40	20.72%
Industrial 2,4	24,168 ccf	121,806.72	137,999.28	16,192.56	13.29%
Commercial 2,1	408 ccf	1,444.32	1,530.00	85.68	5.93%

\*Industrial & Commercial charges are calculated based on flow rate, BOD and TSS

### Sewer Rate Change Monthly Impact on Select City Customers

Account Type	Annualized Average Winter Water Usage (CCF)	2019	2020	\$ Changes	% Change
		Current Rate	Proposed Rate		
Residential Minimum Use	2 ccf	12.16	7.34	(4.82)	-39.64%
Residential Low Use	4 ccf	12.16	14.68	2.52	20.72%
Residential Medium Use	8 ccf	24.32	29.36	5.04	20.72%
Residential High Use	15 ccf	45.60	55.05	9.45	20.72%
Industrial 2, 4	2,014 ccf	10,150.56	11,499.94	1,349.38	13.29%
Commercial 2,1	34 ccf	120.36	127.50	7.14	5.93%

\*Industrial & Commercial charges are calculated based on flow rate, BOD and TSS

**Stormwater Rate Change Comparisons**

**Comparison of Monthly Stormwater Rate Changes**

Account Type	ERUs	2019	2020	Changes	
		Current Rate	Proposed Rate	Current to \$	Current to %
Single and Duplex <.25 Acre	All ERU	4.94	5.43	0.49	9.92%
Single and Duplex >.25 Acre	All ERU	6.91	7.60	0.69	9.99%
Triplex and Fourplex	All ERU	9.88	10.87	0.99	10.02%
All other Parcels	Per ERU	4.94	5.43	0.49	9.92%

\*1 ERU = 1 residential property or 75 feet of street frontage for non-residential properties

**Proposed Stormwater Rate Change Customer Impacts**

**Stormwater Rate Change  
Annual Impact on Select City Customers**

Account Type	ERUs	Changes			
		2019	2020	Current to Proposed	
		Current Rate	Proposed Rate	\$	%
Residential less than .25 Acre	Any ERU	59.28	65.16	5.88	9.92%
Residential more than .25 Acre	Any ERU	82.92	91.20	8.28	9.99%
Industrial*	300 ERU	1,482.00	1,629.00	147.00	9.92%
Commercial	120 ERU	592.80	651.60	58.80	9.92%

**Stormwater Rate Change  
Monthly Impact on Select City Customers**

Account Type	ERUs	Changes			
		2019	2020	Current to Proposed	
		Current Rate	Proposed Rate	\$	%
Residential less than .25 Acre	Any ERU	4.94	5.43	0.49	9.92%
Residential more than .25 Acre	Any ERU	6.91	7.60	0.69	9.99%
Industrial	25 ERU	123.50	135.75	12.25	9.92%
Commercial	10 ERU	49.40	54.30	4.90	9.92%



## **APPENDIX E: Supplemental Information**

## Water Rates Compared with Recognizable Cities in Western States

Ranking	City or District Name	Average Monthly Charge
1	Flagstaff, AZ (1)	\$ 121.40
2	Cheyenne, WY (2)	\$ 68.60
3	Denver, CO (3)	\$ 56.34
4	Reno, NV (4)	\$ 51.14
5	Phoenix, AZ (5)	\$ 44.67
6	Boise, ID (6)	\$ 44.44
7	Las Vegas, NV (7)	\$ 42.26
8	Salt Lake City, UT- 2019 Current	\$ 37.44
	Salt Lake City, UT- 2020 Proposed	\$ 37.17
9	Henderson, NV (8)	\$ 26.47

\* Cities compared with 7,480 gallons per month (10 CCF) and 24,000 gallons summer usage (32.09 CCF).

\*\* Based on eight months Winter and four months Summer usage

## Sewer Rates Compared with Nearby States

City or District Name	Average Monthly Charges
Reno, NV	\$ 46.77
Boise, ID **	\$ 43.33
Phoenix, AZ **	\$ 37.02
Flagstaff, AZ	\$ 29.92
Cheyenne, WY **	\$ 29.32
Salt Lake City- 2020 Proposed	\$ 29.36
Denver, CO	\$ 26.99
Henderson, NV	\$ 25.78
Salt Lake City- 2019 Current	\$ 24.32
Las Vegas, NV	\$ 19.76

\* Monthly Average Charges calculated based on 5,984 gallons per month (or 8 CCF)

\*\* Includes Monthly base rate

## Sewer Rates Compared with Local Cities November 2018

Ranking	City or District Name	Annual Charge
1	City of South Salt Lake	\$ 502.66
2	Kearns Improvement District	\$ 425.34
3	Magna City	\$ 381.63
4	Ogden City	\$ 364.56
	Salt Lake City- 2020 Proposed	\$ 352.32
5	South Valley Sewer District	\$ 332.56
6	Murray City **	\$ 323.63
7	West Jordan City **	\$ 323.09
8	Granger - Hunter Improvement District	\$ 322.55
9	Midvalley Improvement District	\$ 295.29
10	Salt Lake City- 2019 Current	\$ 291.84
11	Taylorsville - Bennion Improvement District**	\$ 265.95
12	Cottonwood Improvement District	\$ 259.36
13	Sandy Suburban Improvement District	\$ 257.04
14	Mt Olympus Improvement District	\$ 234.69
15	South Davis Sewer District	\$ 146.95

\* Annual cost based on 12 months at 5,984 gallons per month (or 8 CCF per month) average winter consumption. Flat rate based on monthly rate multiplied by 12.

\*\* Includes monthly base rate

## Stormwater Rates Compared with Local Cities November 2018

RANKING	CITY NAME	CURRENT RATE
1	PLEASANT GROVE	12.48
2	PROVO	9.20
3	DRAPER CITY	9.00
4	OGDEN CITY	7.85
5	SOUTH JORDAN CITY	7.15
6	BOUNTIFUL CITY	7.00
7	OREM	6.75
8	AMERICAN FORK	6.00
8	SANDY CITY	6.00
	<b>SALT LAKE CITY (PROPOSED)</b>	<b>5.43</b>
9	<b>SALT LAKE CITY (Current)</b>	<b>4.94</b>
10	MURRAY CITY	4.65
11	WEST JORDAN CITY	4.50
12	TAYLORSVILLE CITY	4.00

# Public Utilities Department Local Area Water Rate Comparison November 2018 (Highest to Lowest Ranking)

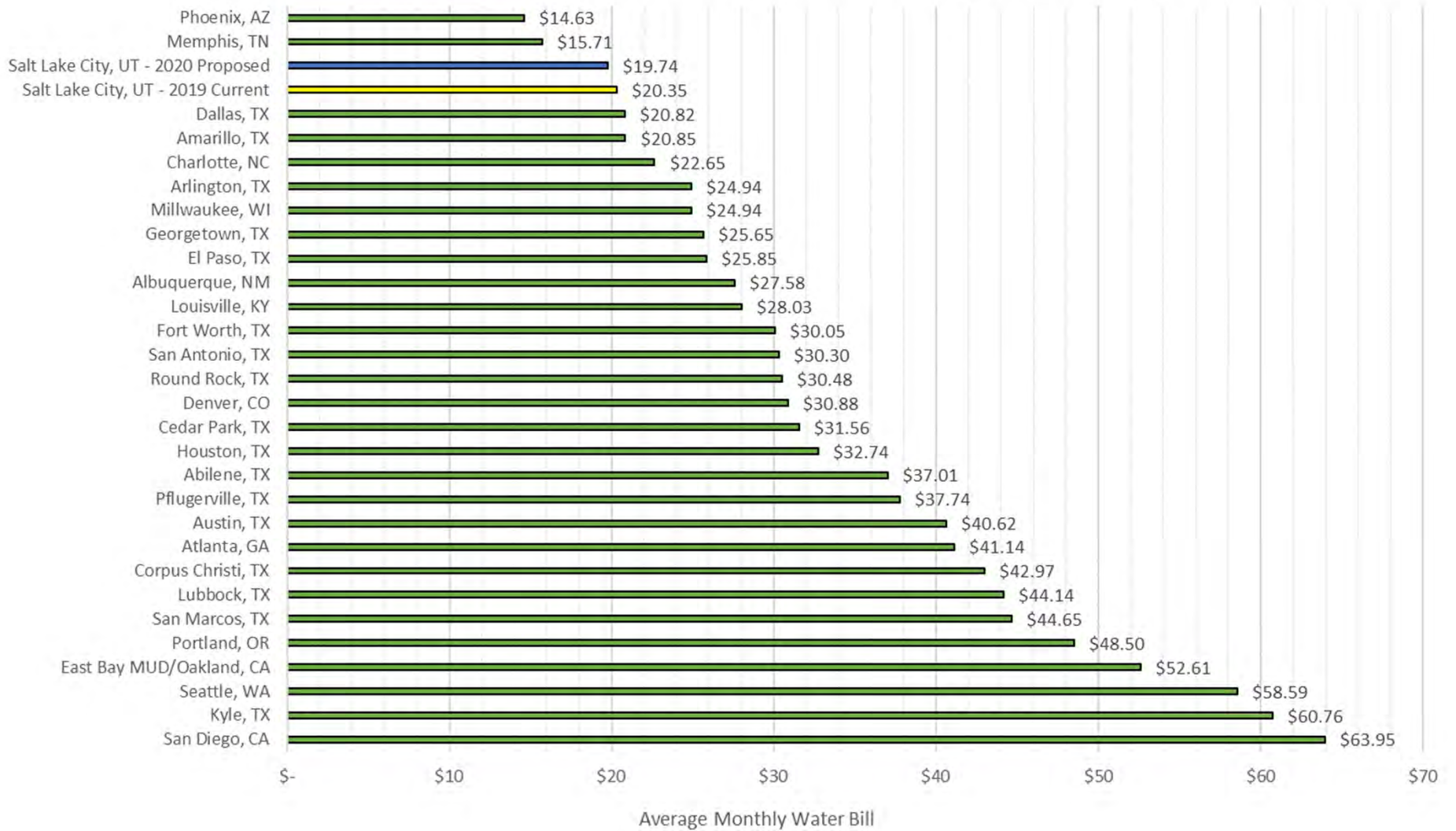
RANKING	CITY OR DISTRICT NAME	MONTHLY MINIMUM CHARGE	MINIMUM ALLOWANCE IN GALLONS	RATE OVER MINIMUM ALLOWANCE	PER GALLONS	MONTHLY FLOURIDE CHARGE	WINTER @ 7,480 GAL PER MONTH	SUMMER @ 23,936 GAL PER MONTH	TOTAL WINTER CHARGES*	TOTAL SUMMER CHARGES*	YEARLY TAX ON \$200,000 PROPERTY	TOTAL CHARGES
1	PARK CITY - GRADUATED RATES (1)	49.08	0	6.12 - 10.31	1,000		104.01	269.91	832.07	1079.64		1911.71
2	AMERICAN FORK - GRADUATED RATES (2)	22.67	3,000	3.52 - 4.96	1,000		39.51	120.03	316.04	480.13		796.17
3	DRAPER CITY - GRADUATED RATES (3)	20.25	0	2.05 - 3.71	1,000		39.08	97.00	312.65	388.01		700.66
4	SOUTH JORDAN CITY - GRADUATED RATES (4)	30.00	0	2.00 - 2.50	1,000		45.33	84.09	362.64	336.36		699.00
5	RIVERTON CITY - GRADUATED RATES (5)	2.50	0	3.76 - 3.91	1,000		31.00	95.34	247.97	381.36		629.33
6	PLEASANT GROVE - GRADUATED RATES (6)	20.81	5,000	2.52 - 5.27	1,000		27.06	98.90	216.48	395.61		612.09
7	OGDEN CITY - GRADUATED RATES (7)	20.90	0	1.79 - 2.74	1,000		35.70	80.78	285.56	323.14		608.70
8	<b>SALT LAKE CITY - OUTSIDE OF CITY</b>	<b>13.35</b>	<b>0</b>	<b>1.82 - 3.47</b>	<b>748</b>		<b>31.55</b>	<b>88.49</b>	<b>252.40</b>	<b>353.96</b>		<b>606.36</b>
	<b>SALT LAKE CITY - OUTSIDE OF CITY (Proposed)</b>	<b>12.53</b>	<b>0</b>	<b>1.84 - 3.50</b>	<b>748</b>		<b>30.93</b>	<b>88.33</b>	<b>247.44</b>	<b>353.32</b>		<b>600.76</b>
9	SANDY CITY - OUTSIDE OF CITY (8)	19.95	0	1.80 - 2.75	1,000		34.82	80.07	278.56	320.30		598.86
10	WEST JORDAN CITY (11)	26.58	0	1.65 - 2.18	1,000		39.04	71.41	312.34	285.64		597.98
11	KEARNS IMPROVEMENT DIST-GRADUATED RATES (9)	11.60	0	2.33 - 2.92	1,000		29.03	75.59	232.23	302.37	51.04	585.64
12	MAGNA - GRADUATED RATES (10)	17.41	6,000	1.89 - 2.12	1,000	0.98	21.19	53.65	169.50	214.62	178.81	562.92
13	SANDY CITY - INSIDE OF CITY (12)	14.43	0	1.64 - 2.53	1,000		28.01	69.65	224.12	278.59	35.75	538.46
14	<b>SALT LAKE CITY - INSIDE OF CITY (13)</b>	<b>9.89</b>	<b>0</b>	<b>1.35 - 2.57</b>	<b>748</b>		<b>23.39</b>	<b>65.53</b>	<b>187.12</b>	<b>262.12</b>	<b>33.22</b>	<b>482.46</b>
	<b>SALT LAKE CITY - INSIDE OF CITY (Proposed)</b>	<b>9.28</b>	<b>0</b>	<b>1.37 - 2.59</b>	<b>748</b>		<b>22.98</b>	<b>65.56</b>	<b>183.84</b>	<b>262.24</b>	<b>35.75</b>	<b>481.83</b>
15	BOUNTIFUL CITY - RESIDENTIAL HIGH ELEVATION	23.57	5,000	1.98	1,000		28.48	61.06	227.84	244.25		472.10
16	CITY OF SOUTH SALT LAKE	19.00	5,000	2.25	1,000	2.00	26.58	63.61	212.64	254.42		467.06
17	GRANGER - HUNTER IMPROVEMENT DISTRICT (14)	13.00	0	1.61 - 1.86	1,000		25.10	54.73	200.80	218.92	28.55	448.27
18	BOUNTIFUL CITY - RESIDENTIAL LOW ELEVATION	21.39	5,000	1.79	1,000		25.83	55.29	206.63	221.14		427.78
19	JVWCD	3.00	0	1.87 - 2.34	1,000		16.99	59.01	135.90	236.04	44.00	415.94
20	PROVO	15.29	0	0.87 - 1.44	1,000		21.80	49.76	174.38	199.03		373.41
21	TAYLORSVILLE/BENNION IMPROVEMENT DISTRICT (15)	7.00	0	1.43 - 1.87	1,000		18.35	49.12	146.78	196.48	6.88	350.14
22	MURRAY CITY - GRADUATED RATES (16)	10.00	0	0.95 - 1.40	748		19.90	46.95	159.20	187.80		347.00
23	OREM - GRADUATED RATES (17)	17.16	0	0.79 - 0.99	1,000		23.07	38.66	184.55	154.63		339.18

## CALCULATION OF COMPARISONS

\* BASED ON EIGHT MONTHS WINTER AND FOUR MONTHS SUMMER

- (1) RATES ARE \$6.12/THOUSAND FOR 0-5,000 GALLONS, \$9.81/THOUSAND FOR 5,001-15,000 GALLONS, & \$10.31/THOUSAND FOR 15,001-25,000 GALLONS
- (2) RATES ARE \$22.67 FOR 0-3,000 GALLONS, \$3.52/THOUSAND FOR 3,001-6,000 GALLONS, \$4.24/THOUSAND FOR 6,000-9,000 GAL & \$4.96/THOUSAND OVER 9,000 GALLONS
- (3) RATES ARE \$2.05/THOUSAND FOR 0-5,000 GALLONS, \$3.46/THOUSAND FOR 5,001-20,000 GALLONS, & \$3.71/THOUSAND FOR 20,001-50,000 GALLONS
- (4) RATES ARE \$2.00/THOUSAND FOR 0-6,000 GALLONS, \$2.25/THOUSAND FOR 6,001-17,000 GALLONS & \$2.50/THOUSAND FOR 17,001 - 42,000 GALLONS
- (5) RATES ARE \$3.76 FOR 0-5,000 GALLONS & \$3.91/THOUSAND OVER 5,000 GALLONS
- (6) RATES ARE \$20.81 FOR 0-5,000 GALLONS, \$2.52/THOUSAND FOR 5,001-10,000 GALLONS, \$3.68/THOUSAND FOR 10,001-15,000 GALLONS & \$5.27/THOUSAND OVER 15,000 GALLONS
- (7) RATES ARE \$1.79/THOUSAND FOR 0-6,000 GALLONS & \$2.74/THOUSAND FOR 6,001-42,000 GALLONS
- (8) RATES ARE \$1.80/THOUSAND FOR 0-6,000 GALLONS & \$2.75/THOUSAND FOR 6,001-40,000 GALLONS
- (9) RATES ARE \$2.33/THOUSAND FOR 0-10,000 GALLONS & \$2.92/THOUSAND FOR 10,001-25,000 GALLONS
- (10) RATES ARE \$1.64/THOUSAND FOR 0-6,000 GALLONS & \$2.53/THOUSAND FOR 6,001-40,000 GALLONS
- (11) RATES ARE \$17.41 FOR 0-6,000 GALLONS, \$1.89/THOUSAND FOR 6,001-18,000 GALLONS, & \$2.12/THOUSAND FOR 18,001-35,000 GALLONS
- (12) RATES ARE \$1.65 FOR 0-7,000 GALLONS, \$1.90/THOUSAND FOR 7,001-20,000 GALLONS, & \$2.18/THOUSAND FOR OVER 20,000 GALLONS
- (13) INCLUDES METROPOLITAN WATER PROPERTY TAX
- (14) RATES ARE \$1.61/THOUSAND FOR 0-7,000 GALLONS, \$1.73/THOUSAND FOR 7,001-15,000 GALLONS & \$1.86/THOUSAND FOR OVER 15,000 GALLONS
- (15) RATES ARE \$1.43/THOUSAND FOR 0-6,000 GALLONS & \$1.87/THOUSAND FOR 6,001-25,000 GALLONS
- (16) RATES ARE \$.95/HUNDRED FOR 0-8 HCF, \$1.15/HUNDRED FOR 9-25 HCF & \$1.40/HUNDRED FOR 26-49 HCF
- (17) RATES ARE \$.79/THOUSAND FOR 0-11,000 GALLONS, \$.99/THOUSAND FOR 11,001-34,000 GALLONS

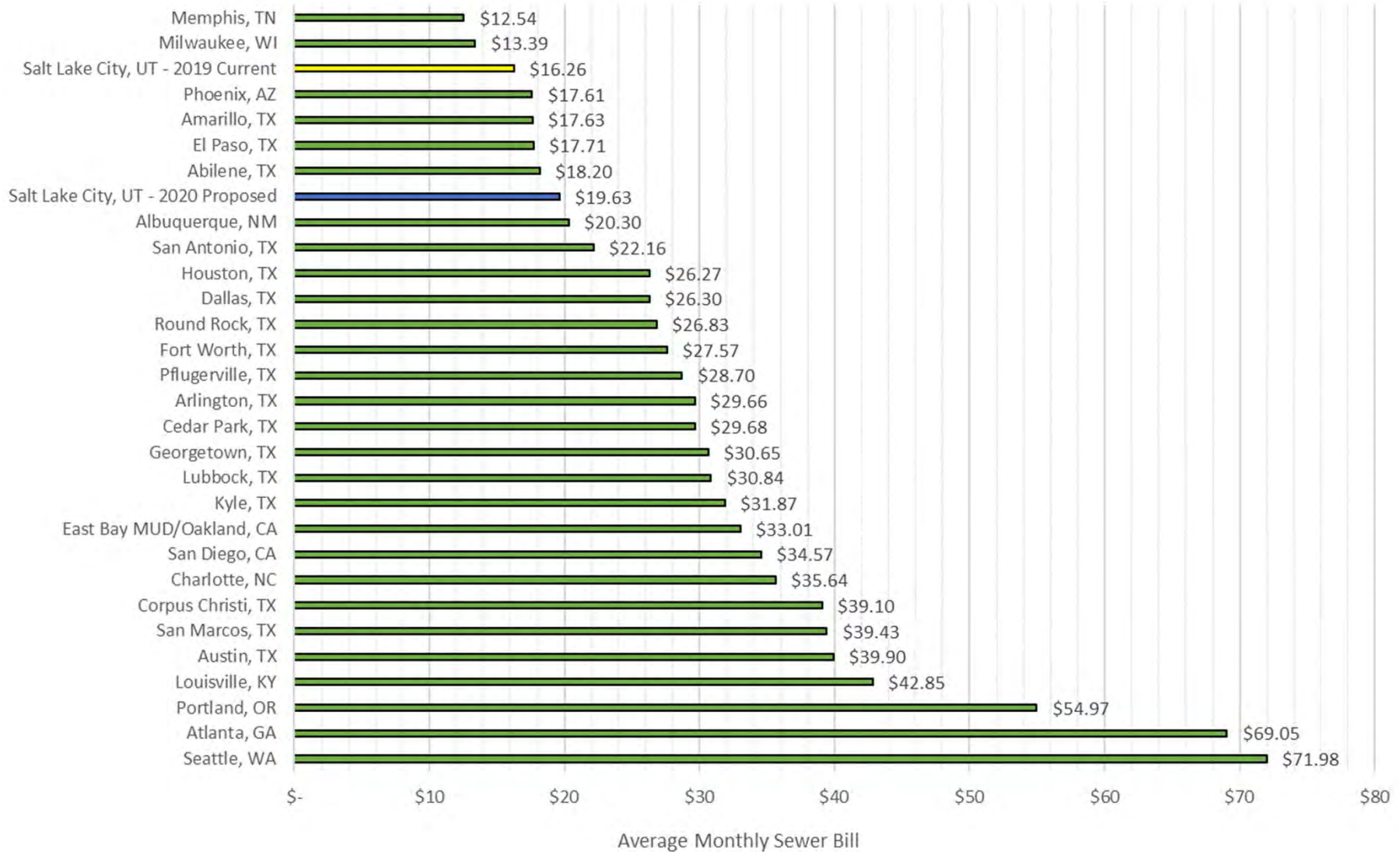
### Average Monthly Bill Comparison (Using the Austin Average Consumption)- Water Residential



\*Cities Other than SLC- Data Source Rates from March 2018 Austin National Survey

\*\* Rates Calculated of an average of 5,800 gallons a month or 7.54 CCF

### Average Monthly Bill Comparison (Using the Austin Average Flow)- Sewer Residential

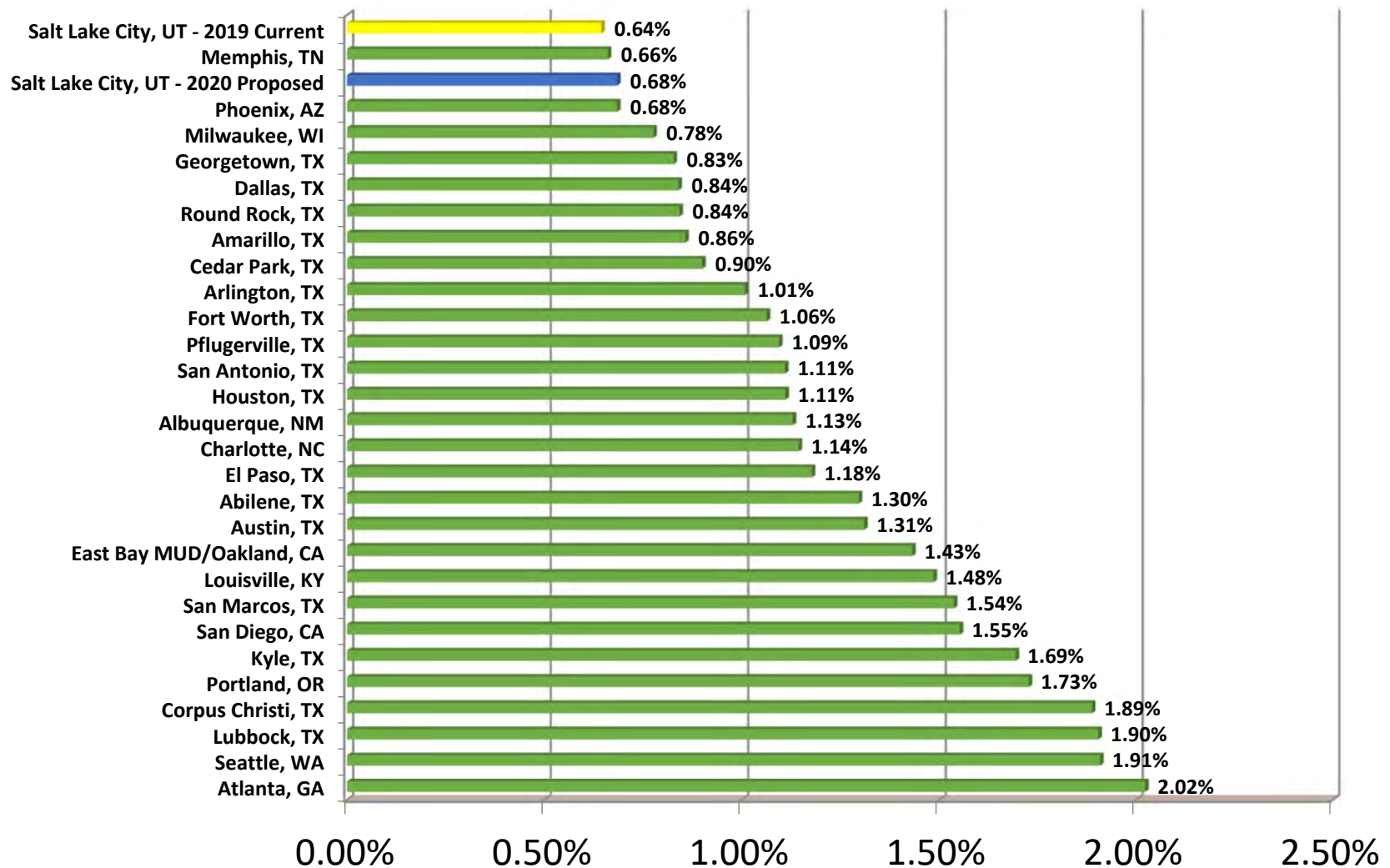


\*Cities Other than SLC- Data Source Rates from March 2018 Austin National Survey

\*\* Rates Calculated of an average of 4,000 gallons a month or 5.35 CCF



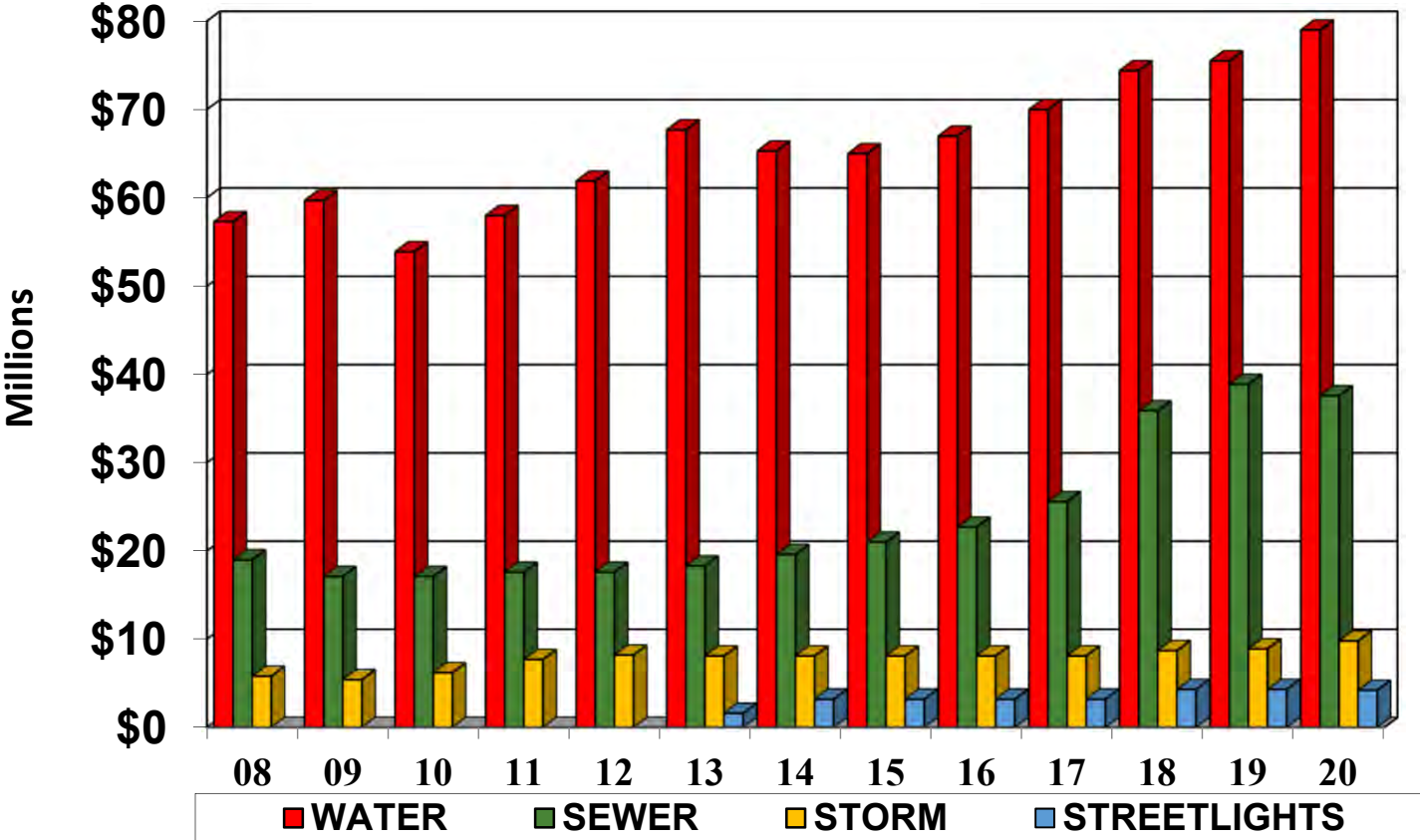
## Residential Water & Sewer Bill as a Percent of Median Household Income (Using Austin Average Consumption & Flows as of March 2018 Report)



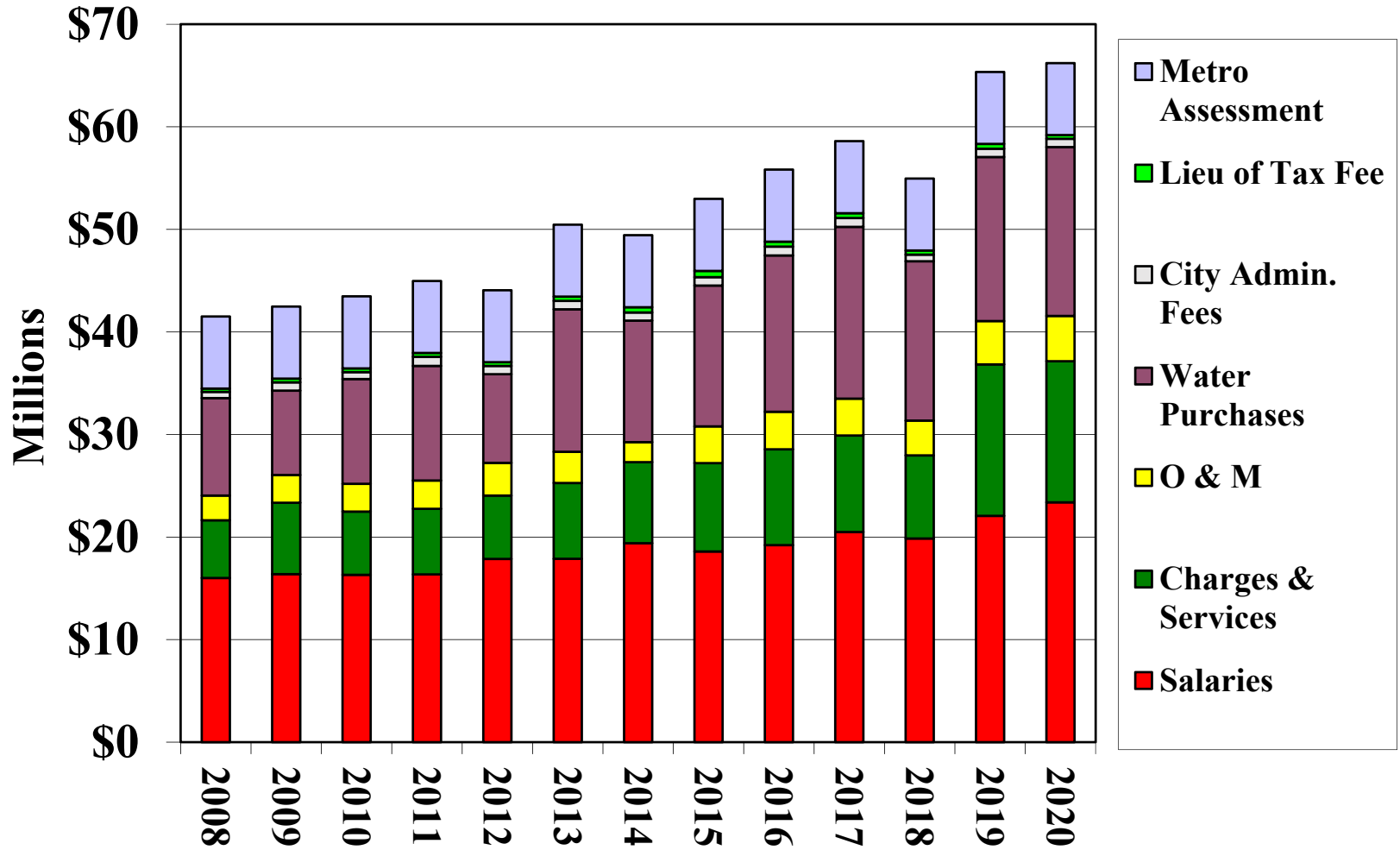
\* The percentage of median household income was calculated by taking the results of each individual city's bill based on that city's rates and the usage of the Austin average consumption and flows. From those results, we divide the annual amount by the individual city's 10 year average median income.

\*\* Median Income source: [www.deptofnumbers.com/income/us/](http://www.deptofnumbers.com/income/us/)

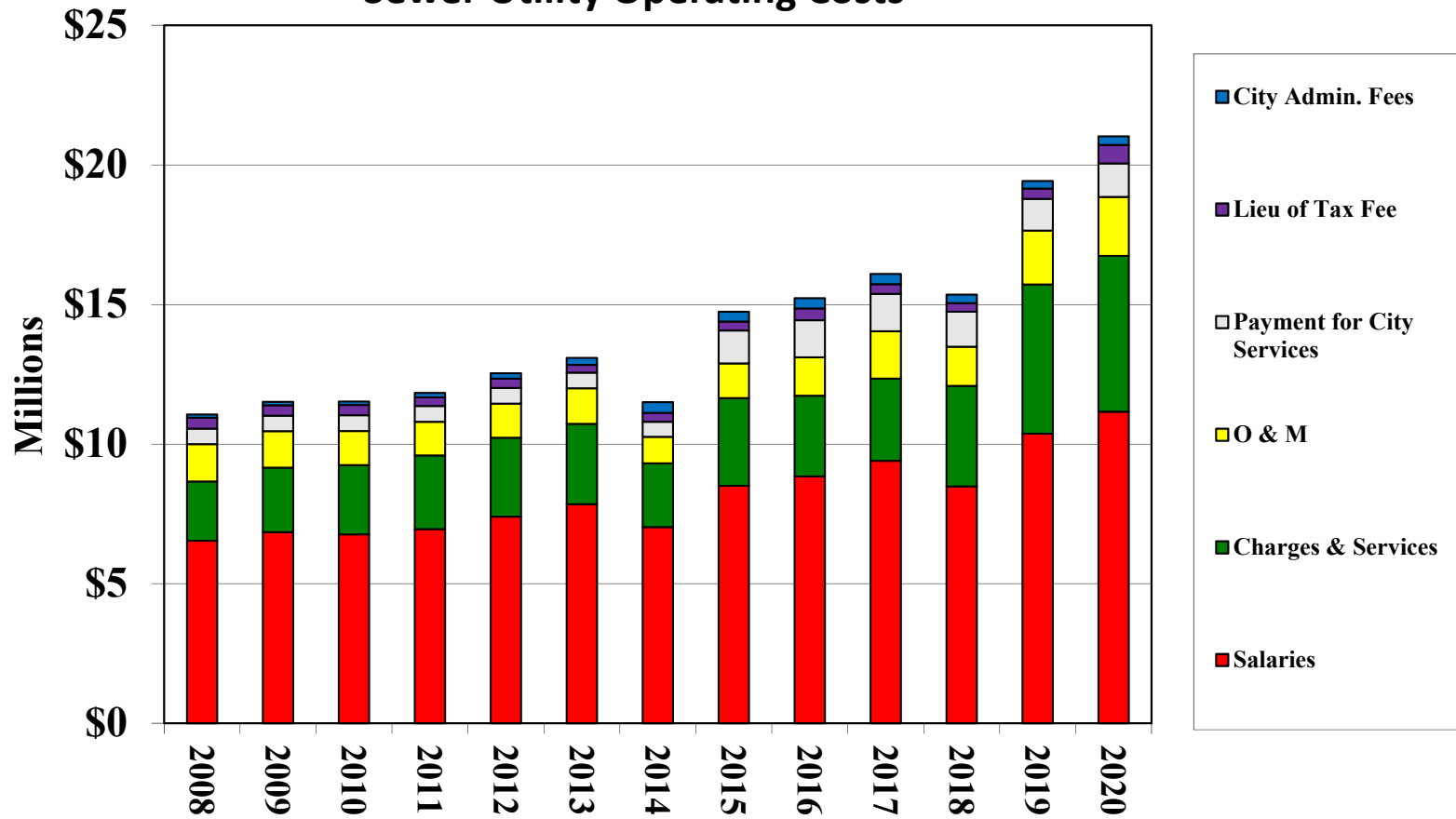
### Public Utilities Operating Revenue



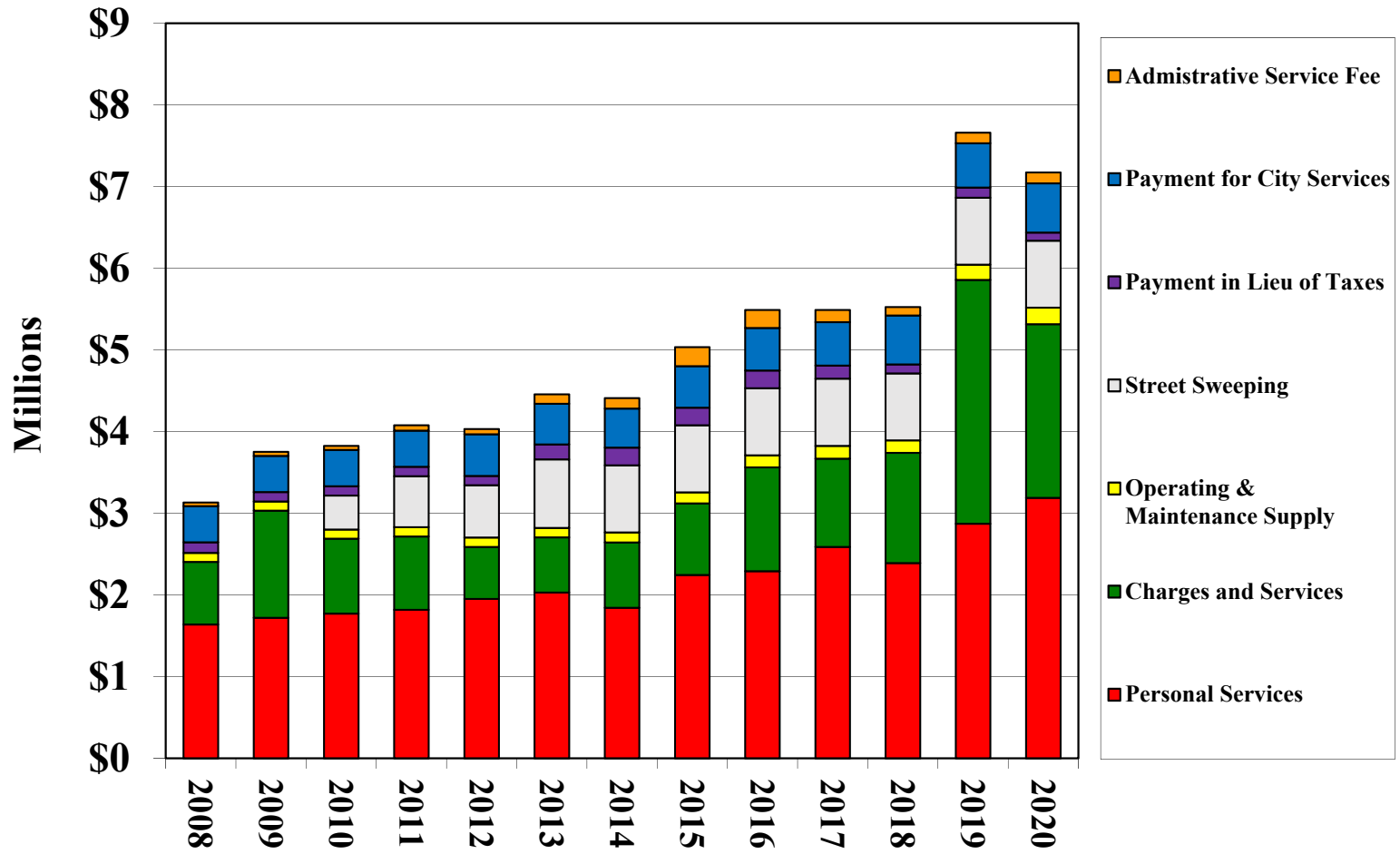
### Water Utility Operating Costs



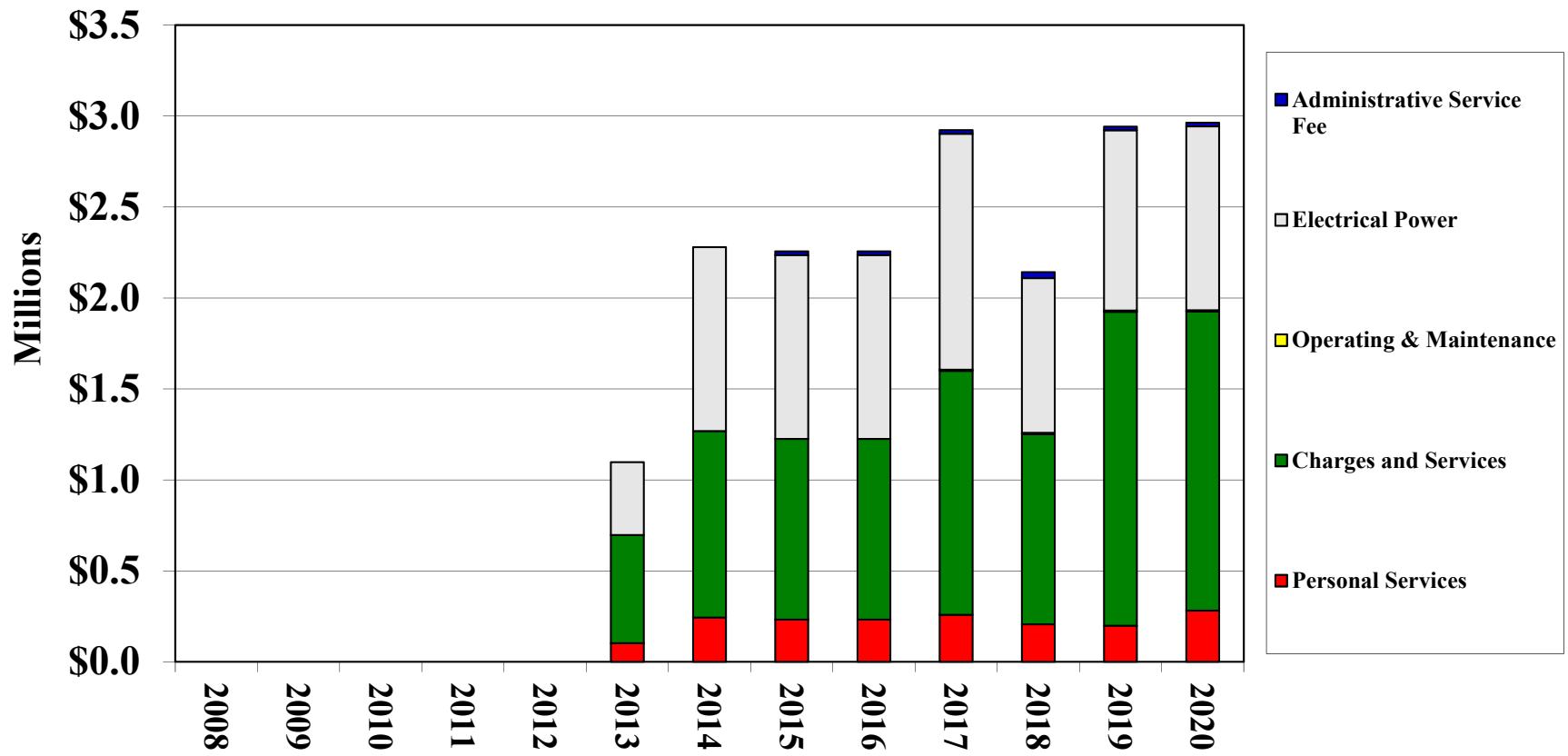
### Sewer Utility Operating Costs



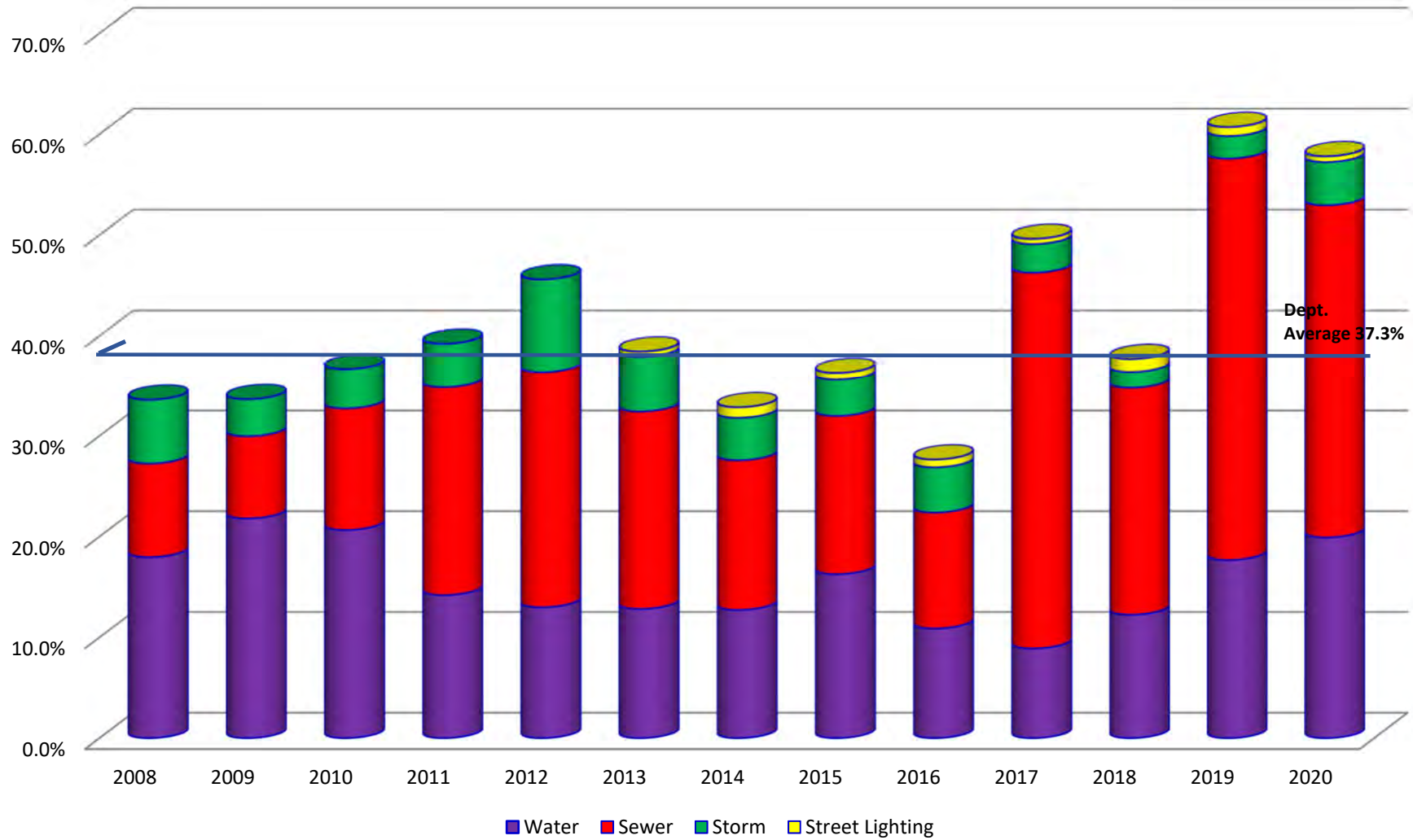
### Stormwater Utility Operating Costs



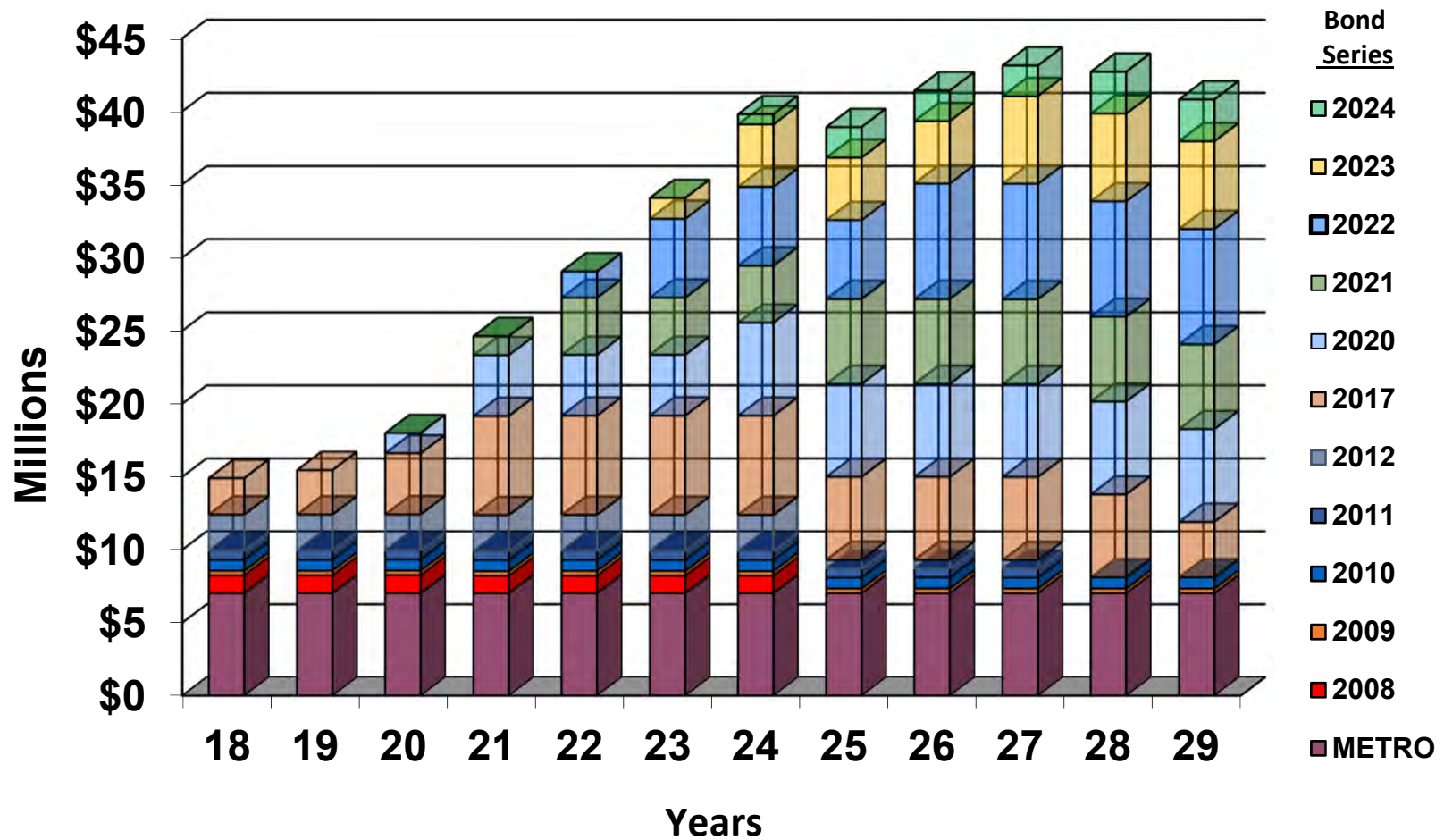
### Street Lighting Utility Operating Costs



## Public Utilities CIP Budget as a Percent of Department Requested Budget

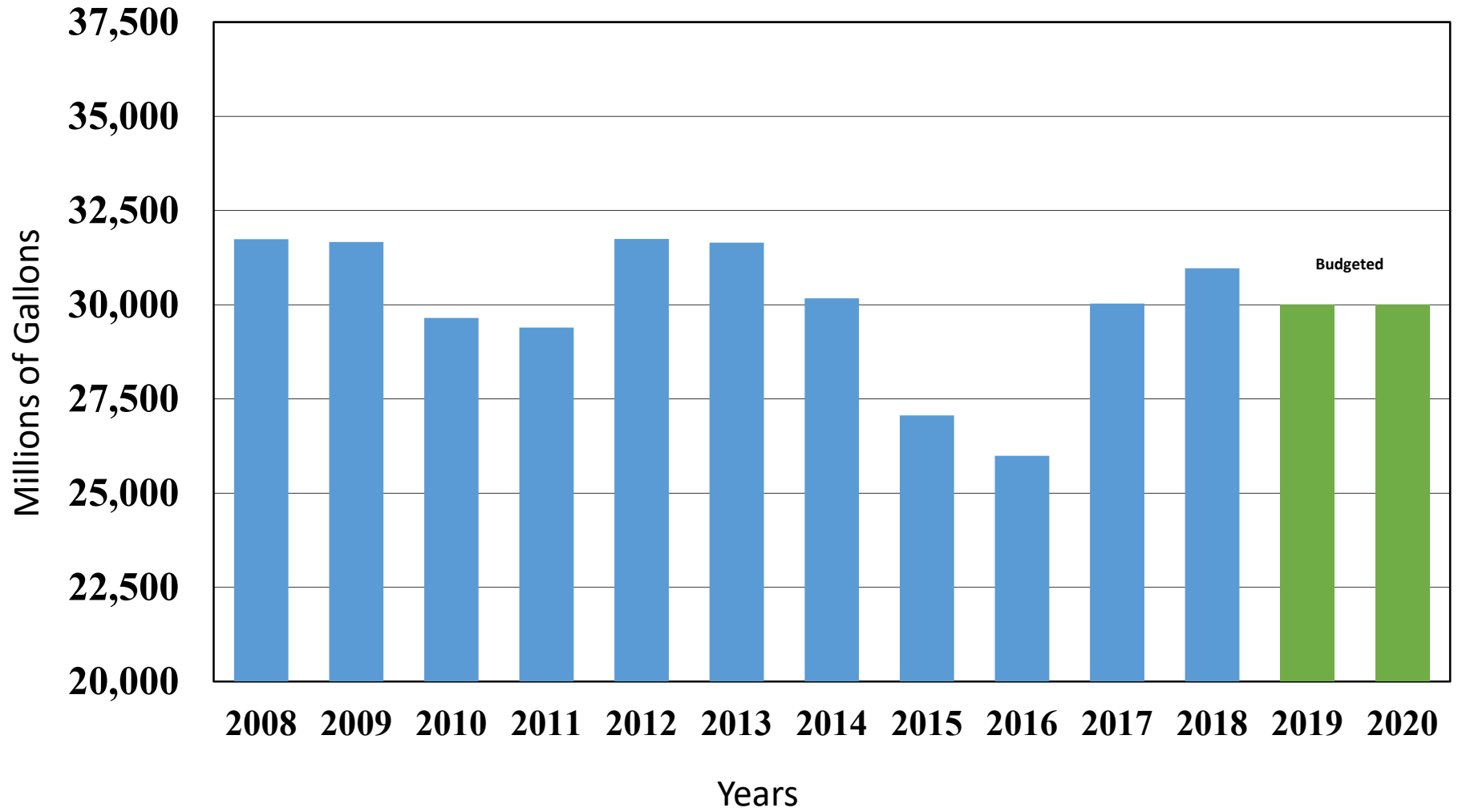


## Public Utilities Proposed Debt Service Schedule and Metropolitan Water Assessment



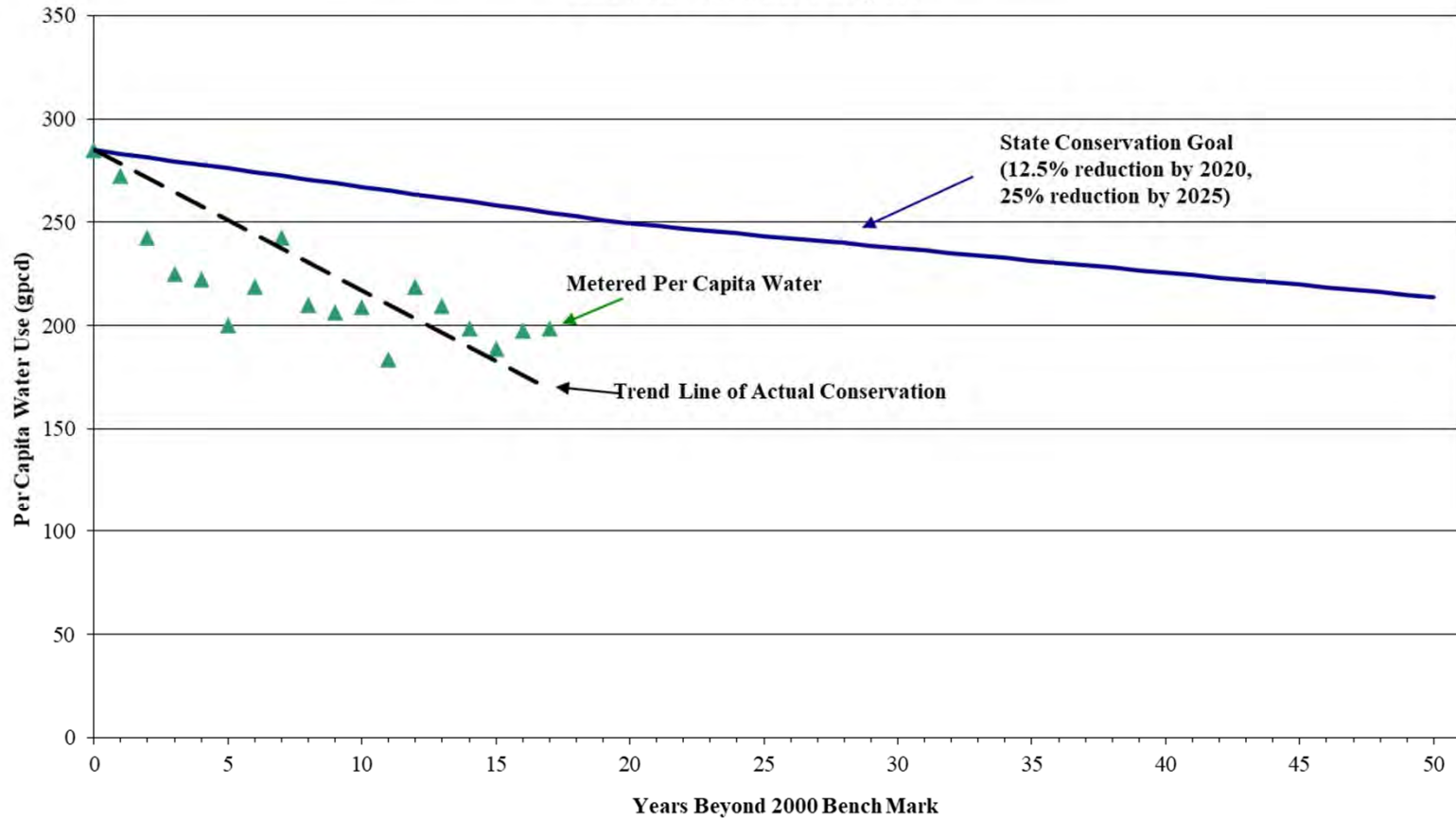


### Million Gallons of Water Delivered By Year



# SALT LAKE CITY CONSERVATION TREND

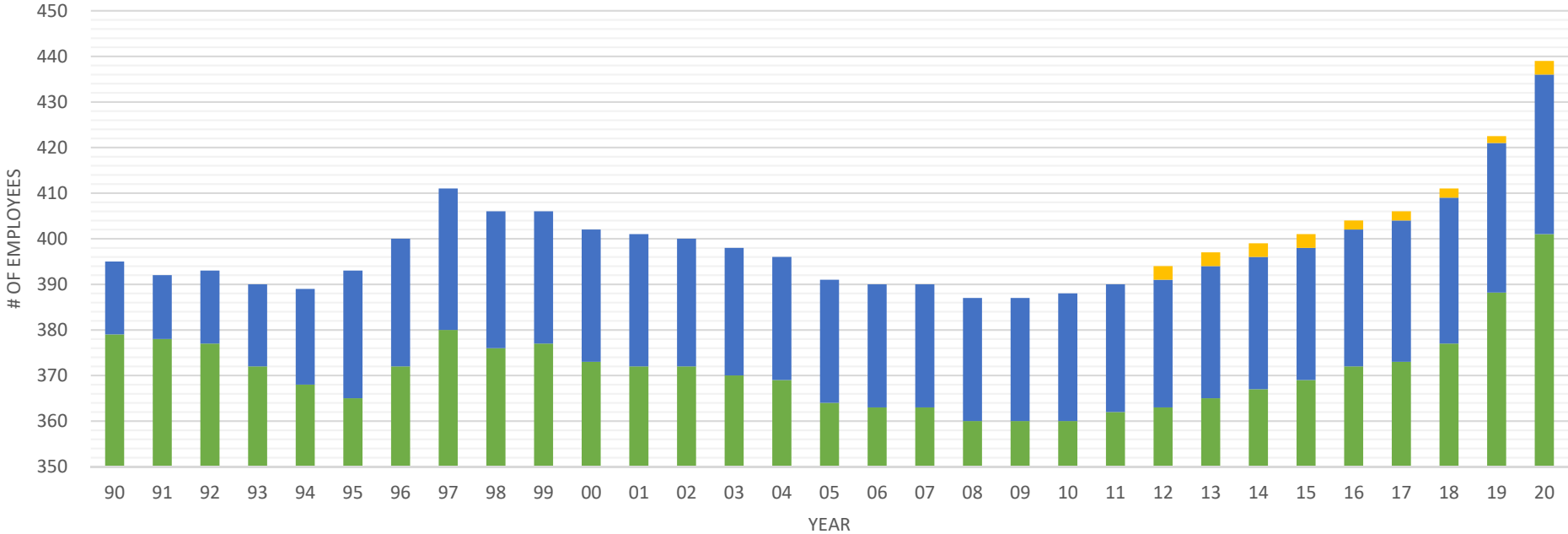
Conservation Performance as of Dec. 31, 2017 from the  
2018 ULS Statistical Report



## Proposed Personnel Adjustments FY 2019/2020

	<u>TOTAL</u>	<u>WATER</u>	<u>SEWER</u>	<u>STORM WATER</u>	<u>STREET LIGHTING</u>
Prior FY Ending FTE Balances by Fund	422.50	272.77	115.43	32.80	1.50
<b><u>NEW POSITIONS REQUESTED FOR FY 19/20</u></b>					
1) RECORDS TECHNICIAN	1.00	0.80	0.10	0.10	
2) COMMUNITY & ENGAGEMENT COORD	1.00	0.50	0.40	0.10	
3) SUSTAINABILITY PROGRAM MANAGER	1.00	1.00			
4) GIS LEAK DETECTOR SYSTEM TECH II UNON	1.00	0.50	0.30	0.20	
5) OFFICE TECHNICIAN II	1.00		1.00		
6) PRETREATMENT INSPECTOR/PERMIT WRITER	1.00		1.00		
7) PRETREATMENT SENIOR SAMPLER/INSPECTOR	1.00		1.00		
8) FOG/SEWER RATE PROGRAM SUPERVISOR	1.00		1.00		
9) MAINTENANCE ELECTRICIAN IV	1.00	1.00			
10) ENGINEERING TECH I	1.00				1.00
11) ENGINEERING TECH II	2.00	1.00	0.50	0.50	
12) ENGINEERING TECH III	1.00	0.50	0.25	0.25	
13) ENGINEER II	1.00	0.50	0.25	0.25	
14) ENGINEER III	2.00	1.00	0.50	0.50	
Total Increase of 16 FTE's for Public Utilities Dept.	438.50	279.57	121.73	34.70	2.50
Two Seasonal Watershed Workers	1.00	1.00			
TOTAL FTE'S	439.50	280.57	121.73	34.70	2.50
<b><u>CHANGES TO FTE DUE TO REORGANIZATION:</u></b>		1.65	-1.10	-0.55	0.00
Agency Totals for FY 2019/2020	439.50	282.22	120.63	34.15	2.50

# Public Utilities Number of Employees By Fund By Fiscal Year



Year	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
Water & Sewer	379	378	377	372	368	365	372	380	376	377	373	372	372	370	369	364	363	363	360	360	362	363	365	367	369	372	373	377	388	401	
Storm Water	16	14	16	18	21	28	28	31	30	29	29	28	28	27	27	27	27	27	27	27	28	28	28	29	29	29	30	31	32	33	35
Street Lighting																							3	3	3	3	2	2	2	2	3
# of Water Connections	84,098	84,526	85,921	86,360	86,665	87,233	85,514	89,191	90,393	89,776	80,218	90,766	91,283	81,751	92,955	92,344	90,748	90,912	90,920	90,976	90,958	90,624	90,251	90,349	90,435	90,451	91,467	91,545	91,802	???	???



## Sewer Collections



**Program Objectives:**

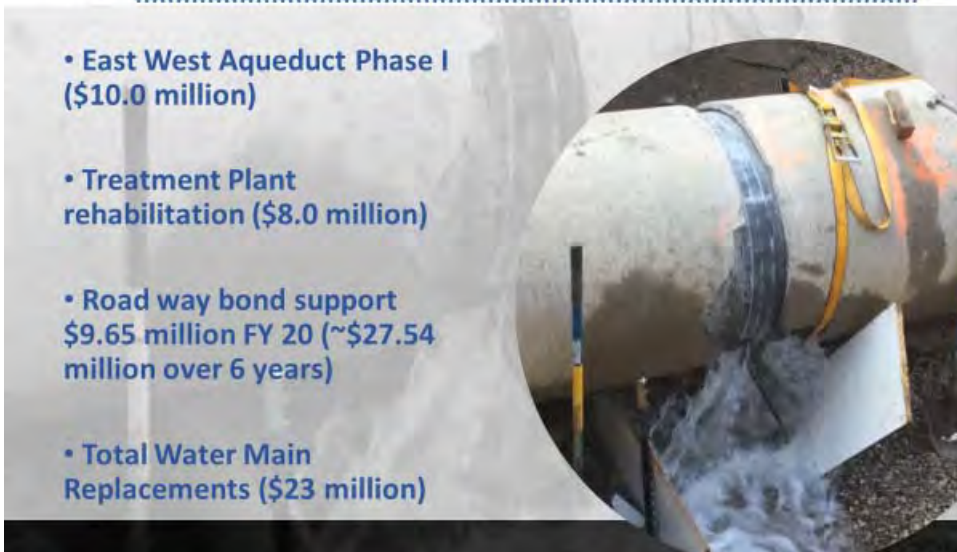
- Existing capacity & condition issues
- Growth related infrastructure
- Odor control
- Support of Roadway Bonding

**Program Magnitude:**

- +/- \$191M in capital infrastructure through 2025



## Water – Capital Program



• East West Aqueduct Phase I (\$10.0 million)

• Treatment Plant rehabilitation (\$8.0 million)

• Road way bond support \$9.65 million FY 20 (~\$27.54 million over 6 years)

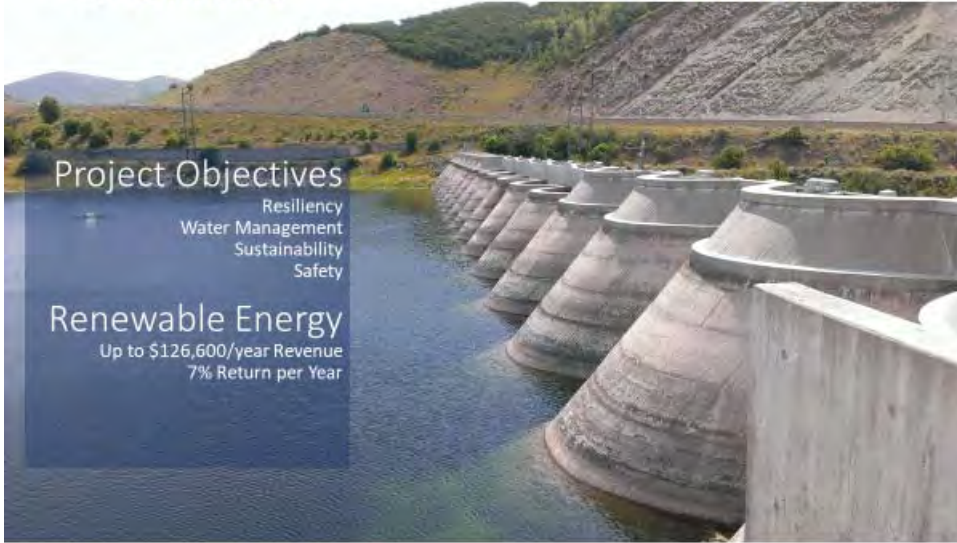
• Total Water Main Replacements (\$23 million)





**Public  
Utilities**

## Water – Mountain Dell Rehabilitation



### Project Objectives

Resiliency  
Water Management  
Sustainability  
Safety

### Renewable Energy

Up to \$126,600/year Revenue  
7% Return per Year



**Public  
Utilities**

## Stormwater



### Master Plan

Resiliency  
Water Management  
Sustainability  
Safety

Roadway Bonding support  
\$17.8 million over 6 years