



CITY COUNCIL TRANSMITTAL

  
Patrick Leary, Chief of Staff

Date Received: March 27, 2018  
Date sent to Council: April 3, 2018

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**TO:** Salt Lake City Council  
Erin Mendenhall, Chair

**FROM:** Laura Briefer, Director of Public Utilities *Jesse A. Stewart For: [Signature]*

**DATE:** *3 LB*  
April 4, 2018

**SUBJECT:** Request for a Budget Briefing  
Proposed Public Utilities Budget for 2018-2019

**STAFF CONTACTS:** Kurt Spjute, Finance Administrator (801-483-6755)  
Jesse Stewart, Deputy Director (801-483-6864)  
Jason Brown, Chief Engineer (801-483-6888)

**COUNCIL SPONSOR:** Budget - Exempt

**DOCUMENT TYPE:** Budget Request

**RECOMMENDATION:** Approval of Public Utilities 2018-2019 Proposed Budget

**PROPOSED BUDGET SUMMARY:**

## Executive Summary

Salt Lake City Department of Public Utilities (Department) is pleased to present its recommended budget for fiscal year 2018-2019 (FY2019). The Department is proposing numerous large capital projects spanning the next five years in the Water, Sewer, and Stormwater Utilities to address aging infrastructure, regulatory requirements, and growth. The largest projects are in the Sewer Utility to (1) construct a new Water Reclamation Facility (WRF) by 2025; and (2) upgrade sewer collection system capacity to support growth, primarily in the Northwest Quadrant of Salt Lake City.

The following items are the major budget issues for each of the Department's Utility funds:



- Projected Water and Sewer rate increases to address capital infrastructure are as previously forecasted, including a water rate increase of 4% and a sewer rate increase of 15% for FY 2019.
- A Stormwater Utility rate increase is proposed in order to complete needed drainage collection projects and update the 1993 Stormwater Master Plan. Stormwater Utility rates have not increased since the riparian corridor fee was added in FY2010. Prior to that, rates have not increased in the Stormwater Utility since 1990.
- No rate adjustments are proposed for the Street Lighting Utility.
- Short term borrowing of \$5.3 million is proposed to delay expensive bonding by another year for the Water, Sewer and Stormwater Utilities. .
- Proposed personnel increase of 14 full-time equivalent (FTE) employees to manage capital projects and to provide for succession of key positions. The 14 proposed additional FTE's account for \$1.2 million in operational expenditures distributed across all funds.
- Operational costs account for insurance increases of 7% and a cost of living adjustment of 2.5%.
- A draft Public Utilities Rate Study and Impact Fee Analysis proposes structural adjustments that update the cost of service for each customer class, and addresses affordability in the Water and Sewer Utilities including a secondary water rate. The Rate Study is anticipated to be finalized in May. The Department is not presenting structural rate changes at this time given the timing and need for additional evaluation of the rate study recommendations. The Department may request an additional work session with the Council to discuss the rate study and effect of possible structural changes to water and sewer rates.

#### Summary of proposed Utility budgets:

Utility Funds 2019 Fiscal Year	Operations	Capital	Debt	Fund Totals
Water	\$ 62,888,877	\$ 40,186,900	\$ 1,117,000	\$ 104,192,777
Sewer	18,522,059	86,356,500	6,058,000	110,936,559
Storm	6,913,232	5,649,068	1,014,000	13,576,300
Lighting	2,860,117	2,605,000	103,000	5,568,117
<b>Totals</b>	<b>\$ 91,184,285</b>	<b>\$ 134,797,468</b>	<b>\$ 8,292,000</b>	<b>\$ 234,273,753</b>



## Water, Sewer, and Stormwater Utilities Bonds and Rates for the Next Five Years:

		Water	Sewer	Storm
Bond Issues/ Rates				
Budget	2019	\$0 / 4%	\$4 million / 15%	\$1.3 million / 10%
	2020	\$68 million / 4%	\$160 million / 15%	\$5 million / 6%
	2021	\$0 / 4%	\$0 / 10%	\$0 / 4%
	2022	\$26 million / 4%	\$188 million / 8%	\$0 / 4%
	2023	\$0 / 4%	\$0 / 10%	\$0 / 0%

### Water Utility Summary

- Proposed rate increase of 4% for FY2019; annual 4% rate increases through 2023 is forecasted.
- Impact to the average monthly residential water bills will be \$1.79 for City residents and \$2.41 for County customers for FY2019.
- The Department is proposing to allocate 10.24 FTEs out of the 14 proposed new positions to various programs in the Water Utility.
- Metropolitan Water District of Salt Lake and Sandy (MWDSLs) charges the Department a flat fee for water. The proposed FY2019 budget accounts for a 3% increase in the flat fee, or a \$466,000 increase.
- Bonding is anticipated in FY2020 for \$68 million. This proposed bonding will be allocated primarily to two large water treatment plant upgrade projects for the Big Cottonwood Water Treatment Plant and the City Creek Water Treatment Plant.

### Sewer Utility Summary

- Proposed rate increase of 15% for FY2019; forecasting annual 15% increase in FY2020, 10% in FY2021, 8% in FY2022, and 10% in FY2023. These rate increase projections are unchanged from last year's five-year projections.
- Impact to average monthly residential sewer bill will be about \$3.18 per month in FY2019, from \$21.20 to \$24.38 per month.
- Bonds are anticipated in FY2020 for the following major projects:
  - Construction of a new Water Reclamation Facility by FY2025. The new facility will maintain the same capacity of the existing facility with the option to expand capacity in the longer term if needed. The new facility will meet all federal and state water quality effluent requirements including new and future anticipated nutrient discharge regulations. Preliminary cost estimates for the new facility range from \$325 million to \$510 million. Costs will continue to be refined while the facility is under design this year.
  - Collection system lines are impacted by condition, age, and capacity. The airport expansion and Northwest Quadrant development will result in funding about \$44 million for FY2019 and average \$16.5 million from FY2020-22 in master planned collection system upgrades. The Department will be investing approximately \$94 million in sewer collection system capacity upgrades over the next four years.



### **Stormwater Utility**

- Proposed 10% rate increase for FY2019. Impact to average residential monthly stormwater bills is 45¢ per month.
- Projected 4% to 6% rate increase for future years as capital projects double for two years.
- Short term borrowing is possible for FY2019 and is shown, plus a regular revenue bond of \$5.3 million is anticipated in FY2020 if projects continue as shown.
- Capital projects are driving projected rate increases. A drainage improvement project is proposed to reduce flood risk from 1700 South to Emigration Canyon. The estimated cost for this project is \$2 million. Red Butte and Gladiola drainage systems make up the bulk of other major projects.
- A stormwater quality audit was recently conducted by the US EPA and Utah DEQ. As a result of that audit, the Department is requesting to allocate 2.73 new FTEs for additional technical, compliance, and engineering needs.
- Personnel service costs are proposed to increase by \$330,000 due to insurance, COLA, and proposed personnel changes

### **Street Lighting Utility**

- No rate increase for FY2019 or projected for the next several years
- Bonds issued in FY2017 for \$2.5 million for Enhanced Street Lighting Tiers 2 and 3 continue to help upgrade enhanced lighting zones.
- Energy efficiency lighting is also reducing power costs by 10-15% however the FY2019 utility budget was not reduced since energy costs were underestimated in prior year budgets.

## **PUBLIC PROCESS**

The Department has held meetings with its Public Utilities Advisory Committee (PUAC) regarding this budget proposal. The proposed FY2019 budget was recommended by the PUAC to the Mayor on March 22, 2018.

The Department will include broad public engagement efforts regarding proposed rate increases through the budget process and prior to any rate increases taking effect.



# **PUBLIC UTILITIES ANNUAL PROPOSED 2018-19 FISCAL BUDGET**



**Public**  
**Utilities**



**April 4,  
2018**

**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 2019**

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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 FY2019 Proposed Budget:*

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

A handwritten signature in black ink, appearing to be "LB", written over a horizontal line.

**Public Utilities Advisory Committee (PUAC)**

*The PUAC concurs with and supports the Salt Lake City Department of Public Utilities FY2019 Proposed Budget presentation:*

**Dr. Colleen Kuhn, Chair** \_\_\_\_\_

A handwritten signature in blue ink, appearing to be "Colleen Kuhn, PhD", written over a horizontal line.

Dated March 26, 2018







## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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### **Executive Summary**

Salt Lake City Department of Public Utilities (Department) is pleased to present its recommended budget for fiscal year 2018-2019 (FY2019). The Department is proposing numerous large capital projects spanning the next five years in the Water, Sewer, and Stormwater Utilities to address aging infrastructure, regulatory requirements, and growth. The largest projects are in the Sewer Utility to (1) construct a new Water Reclamation Facility (WRF) by 2025; and (2) upgrade sewer collection system capacity to support growth, primarily in the Northwest Quadrant of Salt Lake City.

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- No rate adjustments are proposed for the Street Lighting Utility.
- Short term borrowing of \$5.3 million is proposed to delay expensive bonding by another year for the Water, Sewer and Stormwater Utilities.
- Proposed personnel increase of 14 full-time equivalent (FTE) employees to manage capital projects and to provide for succession of key positions. The 14 proposed additional FTE's account for \$1.2 million in operational expenditures distributed across all funds.
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- A draft Public Utilities Rate Study and Impact Fee Analysis proposes structural adjustments that update the cost of service for each customer class, and addresses affordability in the Water and Sewer Utilities including a secondary water rate. The Rate Study is anticipated to be finalized in May. The Department is not presenting structural rate changes at this time given the timing and need for additional evaluation of the rate study recommendations. The Department may request an additional work session with the Council to discuss the rate study and effect of possible structural changes to water and sewer rates

#### **Summary of proposed Utility budgets:**

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Water	\$ 62,888,877	\$ 40,186,900	\$ 1,117,000	\$ 104,192,777
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<b>Totals</b>	<b>\$ 91,184,285</b>	<b>\$ 134,797,468</b>	<b>\$ 8,292,000</b>	<b>\$ 234,273,753</b>



## FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET

### Water, Sewer, and Stormwater Utilities Bonds and Rates for the Next Five Years:

		Water	Sewer	Storm
Bond Issues/ Rates				
Budget	2019	\$0 / 4%	\$4 million / 15%	\$1.3 million / 10%
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#### Water Utility Summary

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  - Collection system lines are impacted by condition, age, and capacity. The airport expansion and Northwest Quadrant development will result in funding about \$44 million for FY2019 and average \$16.5 million from FY2020-22 in master planned collection system upgrades. The Department will be investing approximately \$94 million in sewer collection system capacity upgrades over the next four years.



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

### **Stormwater Utility**

- Proposed 10% rate increase for FY2019. Impact to average residential monthly stormwater bills is 45¢ per month.
- Projected 4% to 6% rate increase for future years as capital projects double for two years.
- Short term borrowing is possible for FY2019 and is shown, plus a regular revenue bond of \$5.3 million is anticipated in FY2020 if projects continue as shown.
- Capital projects are driving projected rate increases. A drainage improvement project is proposed to reduce flood risk from 1700 South to Emigration Canyon. The estimated cost for this project is \$2 million. Red Butte and Gladiola drainage systems make up the bulk of other major projects.
- A stormwater quality audit was recently conducted by the US EPA and Utah DEQ. As a result of that audit, the Department is requesting to allocate 2.73 new FTEs for additional technical, compliance, and engineering needs.
- Personnel service costs are proposed to increase by \$330,000 due to insurance, COLA, and proposed personnel changes

### **Street Lighting Utility**

- No rate increase for FY2019 or projected for the next several years
- Bonds issued in FY2017 for \$2.5 million for Enhanced Street Lighting Tiers 2 and 3 continue to help upgrade enhanced lighting zones.
- Energy efficiency lighting is also reducing power costs by 10-15% however the FY2019 utility budget was not reduced since energy costs were underestimated in prior year budgets.



### **BUDGET SUMMARY**

- Total Department Budget (Capital and Operations) is \$234,273,753, or a 12.35% increase from the FY2018 adopted budget of \$208,519,913.
- The Department's total proposed operating budget is \$91,184,285, an increase of 3% or \$2,657,189. This includes a \$1 million decrease in technical services. Personnel costs are projected to increase \$2.4 million which includes 14 new FTEs, a 2.5% COLA, and a 7% increase in insurance for medical premiums. Water purchases from Metropolitan Water District will increase 3% over last year. Other Department operating expenses increased \$237,576 or 1.3%.
- The Department's total proposed capital budget is \$134,797,468 and debt service is \$8.3 million. Capital purchases budgeted at \$11 million is \$2.5 million more than budgeted last year for purchases.
- The Department's total debt service for FY2019 is \$8.3 million. Debt service (bond expenses) is projected to increase 9.9% or \$745k from last year as new Sewer Revenue Bonds sold in 2017 will impact debt service in FY2018. The forecasted bonds for FY2019 can be delayed 12 months to FY2020.
- The Department's total revenues for FY2019 are projected to be \$139,481,997; this is a nearly \$13.9 million increase compared to FY2018 because of rate increases and \$8.5 million was recently received in FY2018 as no-interest State loan that will assist with Northwest Quadrant development. This loan and the 2017 bond issue helps delay bonding until FY2020.
- A \$ 5.3 million short term gap financing option is included for the Sewer Utility and Stormwater Utility in FY2019. The FY2020 planned revenue bond is \$233 million with a 30 year or longer issue period coinciding with the life of the new WRF and the customers who will most benefit during the repayment life of the bonds.
- Bonded debt service expenses for the Sewer Utility are expected to increase to \$19 million by FY2022. This cost is \$8 million less than predicted in the FY2018 budget as rates will help pay a larger portion of the new plant than previously anticipated.
- Total FY2019 Department revenues are projected at \$139,481,997 million. The Department plans on balancing the budget with \$94,791,756 million of reserves in all Utility funds, reserves include the remaining \$60 million from the 2017 bond issue, and possible short term borrowing if needed.
- As noted in the executive summary, a rate study is currently in draft that proposes changes to the water and sewer rate structures, possible changes to base lighting fees and a new secondary water rate. Included in the study is fee increases for services and some suggested new fees. These are not impacting the budget, and rate structure changes whether adopted July 1 or not has no impact on this budget as the rates are revenue neutral.



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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- **Special Programs**

- < Assistance of low income affordability program for County abatement (includes water, sewer and refuse discounts).
- < The Department has dedicated \$3.5 million for the next 6 years to replace the old radio and foot method of reading water meters. The automated meter instrumentation (AMI) or tower system is a move to real time data from meter to computer. AMI will reduce costs of meter reading, allow customers to access water consumption information in real time, assist with water conservation programs and allow customers to identify property-side water leaks immediately.
- < Rain Barrel Sales Program continues.
- < UTA Partnership with Utility customer service and City Transportation for HIVE Trax passes.
- < HomeServe Water and Sewer Lateral Warranty Program for City customer's private insurance as contract expires in early FY2019.
- < Renewable Energy - Hydro-electric generation gravity fed in pipe turbines ready but is in negotiation with Rocky Mountain. The Parley's system is scheduled to generate renewable power in FY2021.
- < Mountain Accord/Central Wasatch Commission contribution of \$200,000.
- < Enhanced lighting efficiency and wiring upgrades from bond proceeds began in FY2017 and will continue through FY2019.
- < Private Lighting \$20,000 from General Fund to assist special neighborhoods

### ***Revenue Forecast and Water Availability***

*Department revenues are generally predictable for all funds except water which is based on changes in seasonal use due to weather. A cooler, wetter summer and spring will reduce water demand and sales. Last year was one of the warmer seasons on record and revenues were higher than budgeted. 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 still have adequate coverage for FY2019 despite the much lower than normal snow pack. Water revenues are forecasted on a normal or average expected usage.*



## FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET

### DEPARTMENT BUDGET HIGHLIGHTS

Below is a summary of the Department's overall proposed budget. As shown, this overall budget is proposed to increase 12.35% or \$25.7 million from the FY2018 adopted budget of \$208 million. The increase over last year's budget is largely due to upcoming capital projects that increased \$21.9 million.

UTILITY BUDGET EXPENSES					
2018/19	OPERATIONS	DEBT SERVICE	CAPITAL	TOTAL	ADOPTED PERCENT CHANGE
Water Utility	\$62,888,877	\$1,117,000	\$40,186,900	\$104,192,777	24.20%
Sewer Utility	18,522,059	6,058,000	\$86,356,500	\$110,936,559	3.95%
Stormwater Utility	6,913,232	1,014,000	\$5,649,068	\$13,576,300	6.05%
Street Lighting	2,860,117	103,000	2,605,000	\$5,568,117	9.21%
Total	\$91,184,285	\$8,292,000	\$134,797,468	\$234,273,753	12.35%

The Department's schedule of proposed rate increases through FY2023 is shown below. The proposed rate increases help maintain a reasonable level of cash reserves and prepares the Department for planned future capital and operational needs. The Department is recommending rate increases in FY2019 for the Water, Sewer and Stormwater Utilities because of the capital infrastructure needs. No rate increase is proposed for Street Lighting Utilities in FY2019.

Projected Rate Increases				
	Water	Sewer	Stormwater	Street Lights
2018-19	4%	15%	10%	0%
2019-20	4%	15%	6%	0%
2020-21	4%	10%	4%	0%
2021-22	4%	8%	4%	0%
2022-23	4%	10%	0%	0%

### Additional Personnel

The Department has identified needed positions to accomplish large capital projects and for succession planning. The current number of FTE positions for the Department is 408.5. The Department is proposing to add the following 14 positions:

- Four engineering support positions to accomplish infrastructure projects.
- One watershed position to help with increased source water protection tasks due to additional management requirements in the Wasatch watersheds.
- One water rights assistant to assist with the Utah Lake/Jordan River water right adjudication and to plan for succession.
- Three maintenance positions to handle old lines connected to new meter change outs.
- Two Stormwater technicians



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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- One stormwater compliance position
- One pre-treatment inspection writer
- One payroll office facilitator vacated by human resource transfer

### **Metropolitan Water District Water Purchase Impact to Budget**

The Metropolitan Water District of Salt Lake and Sandy (MWDSLS) uses a flat rate structure. The chart below shows the projected MWDSLS cost increases and the approximate corresponding impact to water rates for budget purposes. This year water purchases from MWDSLS will cost \$15.9 million. MWDSLS' ongoing capital repayment continues to be \$7.5 million. Annual payments/purchases to MWDSLS are 36% of the water's operational budget.

Three year Planned Metropolitan Rate Increases			
	Rate Increase	Cost to Department	Percent of Revenue to Offset Metro
2018-19	3%	\$465,868	0.70%
2019-20	3%	\$479,845	0.70%
2020-21	3%	\$494,240	0.70%

### **Capital Improvements**

The Department's CAP (Capital Asset Program) program and Asset Management Program has greatly improved the prioritization of the Department's capital needs. All infrastructure needs are assessed on criticality and condition. A condition rating of "1" is new, with the "5" rating indicating a more urgent condition. Criticality is a consequence of the effect that infrastructure failure may have, including harming customers and property. A "5" criticality rating indicates there is a higher risk of service disruption or impact to the customers. Projects of high criticality and condition ratings receive funding priority. Listed below are the Department's major projects for the proposed FY2019 budget:

- Water line replacements are budgeted at \$12,708,000.
- Reservoirs are budgeted at approximately \$4,304,000.
- Water service connections that include meters, new connections and meter replacements have a nearly fixed annual budget of \$3.3 million with \$1.4 million for replacing older radio drive-byes with automated meters. This is a multi-year program to address the Department's approximately 92,000 meters.
- Water treatment plants have 12 total projects totaling \$5.2 million. These include continuation of Supervisory Control & Data Acquisition (SCADA) system upgrades, sedimentation basins projects over four years, laboratory upgrade, sludge collection system retrofit, and drying bed pipelines.
- The Department re-evaluated the original scope of the new WRF, and has consolidated the delivery into a single methodology as proposed within the FY2019 budget. This package consolidation was considered necessary to facilitate the aggressive schedule required to meet the FY2025 nutrient regulatory deadline,



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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manage simultaneous construction packages, facilitate design standardization and operability, implement facility wide cost controls, and to manage the critical path schedule. The Department has chosen the CM-GC (Construction Manager-General Contractor) delivery model. The FY2019 budget pinpoints several key delivery contracts that facilitate construction of the new WRF. It is anticipated that the design of the new WRF and the construction of the Bio-Mechanical Dewatering Facility will be initiated in FY2019 as outlined within the proposed budget. The estimated cost for the new WRF facility is currently at \$390.9 million.

- Master planned sewer collection line replacements, collection system upgrades and development are \$56 million. Orange Street 500 South Interceptor, 700 south capacity upgrades, 500 south diversion pump station and 700 South lift station including North Beck Street to the treatment plant account for \$42 million of the budget. There are 50 smaller projects that make up the other \$12 million.
- Stormwater State, City and County driven projects total \$2 million that include Gladiola 500 south to 900 south, 1300 East, and Indiana Avenue to 3400 West.
- The newest flood mitigation project is for 1700 South to Emigration Storm Drain that will be \$2.8 million for FY2019 and FY2020.
- Stormwater also proposes \$532,000 for four Riparian Corridor projects along Emigration Creek and near the 10<sup>th</sup> North Lift Station.
- Street lighting efficiency projects for base lighting comprise \$1 million. Enhanced lighting improvements and high efficiency lighting and renovations financed in part by the \$2.5 million 2017 bond issue will assist in paying for \$1.3 million planned for this fiscal year.



### WATER UTILITY ENTERPRISE FUND

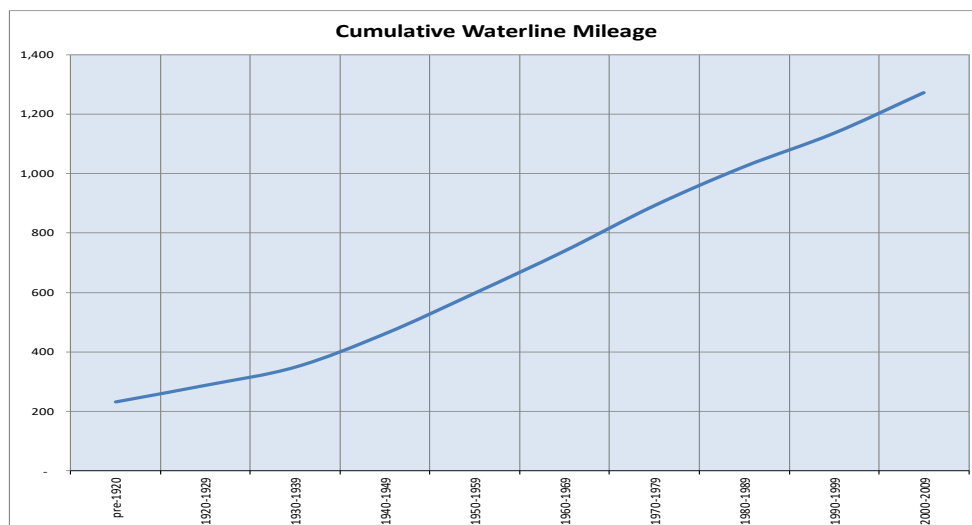
#### Major Budget Issues for FY2019

- A 4% rate increase—approximately \$1.79 per average residence per month—increases budgeted revenue by \$2.8 million to help the Department meet its capital and operations objectives. Rates are projected to increase 4% annually through FY2023. The Department anticipates bonding of \$94 million for the next five years, maintaining adequate cash reserves and a strong debt service ratio.
- The Department plans to invest \$35.6 million in capital improvements for Water Utility infrastructure in FY2019. The capital improvement program continues with consistency in supporting a water system that reliably delivers quality water to customers and replaces worn out infrastructure.
- The Department expects a \$465,868 or 3% increase in the price of water from Metropolitan District of Salt Lake and Sandy for FY2019.

#### Water Infrastructure Background

The Salt Lake City Water Distribution System is one of the oldest and largest systems west of the Mississippi River with 1,119 miles of 12” or smaller distribution lines, and 180 miles of large transmission mains for a total asset inventory of 1,299 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. The graph below shows the historical age of the system water lines. There is a continual need to repair and replace pipe segments to maintain service and reduce emergency break repair costs and impacts to the public.

The Department’s asset management program has included investments over the past few years in use of new technology to assess the condition of the large water transmission mains to assure repair and replacement is completed with minimal impact to the public.



**Pipeline Age for the Salt Lake City Water Distribution System**



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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### **Analysis of Estimated Revenue**

An analysis of the estimated revenue contained in the Department's recommended FY2019 Budget for the Water Utility is as follows:

<b>Revenue (Water)</b>	<b>Amended Budget 2017-2018</b>	<b>Proposed Budget 2018-2019</b>	<b>Difference</b>	<b>Percent</b>
Water Services Fees	\$70,470,525	<b>\$73,289,346</b>	\$2,818,821	4.00%
Interest	553,382	<b>375,000</b>	(178,382)	-32.23%
Interfund charges	2,814,186	<b>3,037,985</b>	223,799	7.95%
Other gains	50,000	<b>50,000</b>	0	0.00%
Impact fees	500,000	<b>500,000</b>	0	0.00%
Contributions	1,205,000	<b>1,205,000</b>	0	0.00%
From (To) Reserves	20,694,880	<b>25,735,446</b>	5,040,566	24.36%
<b>TOTAL</b>	<b>\$96,287,973</b>	<b>\$104,192,777</b>	<b>\$7,904,804</b>	<b>8.21%</b>

Budgeted total revenues increase by \$7,904,804 or 8.21% with \$5.0 million needed from cash reserves for operations and capital improvements. Water fees are adjusted based on the proposed rate increase of 4%.

Water Sales and Services: The proposed revenue for water sales and services includes a proposed 4% rate increase—approximately \$1.79 per average residence per month-- to generate an additional \$2,818,821 in metered sales.

Interest Income: The Department anticipates interest income to decrease <\$178,382> as reserve funds are invested in capital improvements.

Interfund Charges: The Water Utility is reimbursed by Sewer, Stormwater, Street Lighting Sustainability, and Hive program for services related to billing. The Water Utility is increasing the amount of the reimbursements \$223,799 based primarily on increased IMS charges and increased banking fees. Actual FY2017 costs incurred are allocated based on the number of bills and budgeted for reimbursement if FY2019.

Other gains: No Change.

Impact Fees: No Change.

Contributions by Developers: No change is budgeted.

Reserve Funds: The Department plans to use \$25.7 million of reserve funds to balance the capital improvement needs. Budgeted use of reserve funds is \$5,040,566 more than the FY2018 budget or an increase of 24.36%.



## FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET

### Analysis of Estimated Expenditures

The expenditure budget for the Department is proposed to increase \$7,904,804 or 8.21% from the FY2018 budget. The proposed budget for FY2019 by major category is as follows:

Major Expenditure Category (Water)	Amended Budget 2017-2018	Proposed Budget 2018-2019	Difference	Percent
Personnel services	\$20,585,385	\$22,069,746	\$1,484,361	7.21%
Materials and supplies	3,900,830	4,218,280	317,450	8.14%
Charges for services	36,105,858	36,600,851	494,993	1.37%
Debt service	918,809	1,117,000	198,191	21.57%
Capital outlay	5,630,091	4,614,400	(1,015,691)	-18.04%
Capital improvements	29,147,000	35,572,500	6,425,500	22.05%
<b>TOTAL</b>	<b>\$96,287,973</b>	<b>\$104,192,777</b>	<b>7,904,804</b>	<b>8.21%</b>

Personnel Services: Employee costs are estimated to increase \$1,484,361 or 7.21%. The water utility budget anticipates an increase of 10.24 FTE's for Water Utility's portion of 14 new employees across the Department. The FY2019 budget includes 2.5% COLA and a 7% increase in costs of employee insurance premiums.

Materials & Supplies: The proposed budget for materials and supplies of \$4,218,280 increases \$317,450 or 8.14% from FY2018's amended budget of \$3,900,830 for the following reasons:

- Small tools and equipment increases \$86,200
- Repair materials \$176,000
- Laboratory, building, and grounds supplies \$42,100
- Thirteen other items netting an increase of \$13,150

Charges for Services: The proposed budget for charges and services will increase 494,993 as explained below:

- Water Purchases from Metropolitan Water District increase \$465,868
- Data processing IMS increases \$192,348
- Utilities increase \$108,999
- Payments in lieu of tax increase \$77,515
- Technical services decrease <\$273,680>
- Several other charges decrease a net amount of <\$76,057>

Debt Service: - In compliance with the outstanding bond, Series 2017 Refunding Bond, budgeted debt service payments increase \$198,191.



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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Capital Outlay: The proposed Water Utility budget for capital outlay for FY2019 is \$4,614,400. The budget includes \$1,500,000 for Watershed Land, \$30,000 for water rights, \$1,029,500 for 18 vehicle replacements and 3 new vehicle purchases, \$927,300 for field equipment, \$240,000 for pumping equipment, \$462,000 for treatment plant equipment, \$170,000 for telemetry, \$44,000 for office furniture & equipment, and \$211,000 for other non-motive equipment.

Capital Improvement Program: The Department's proposed CIP budget for FY2018 is \$35,572,500. Capital project summary by facility types are as follows:

<b>Proposed Water Capital Improvement Program Budget for Fiscal Year 2018-2019</b>	
<b>Type of Project</b>	<b>Budget Amount</b>
Treatment plants	7,245,000
Water Service Connections	6,050,000
Pumping Plant Upgrades	890,000
Reservoirs	4,304,000
Water Mains & Hydrants	12,708,000
Wells	3,700,000
Culverts, flumes & bridges	400,500
Landscaping	275,000
Maintenance buildings	0
<b>Total 2018-2019 Capital Improvement Program</b>	<b>\$35,572,500</b>



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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### **SEWER UTILITY ENTERPRISE FUND**

#### **Major budget issues for FY2019**

- A new Water Reclamation Facility is planned to be constructed by 2025 and will start major design in FY2019. The total cost for the new WRF is estimated between \$350 million and \$450 million; costs will be refined during the design process.
- Sewer collection system capacity upgrades that are anticipated at nearly \$100 million over the next few years.
- Planned revenue bonds of \$433 million in the next five years begins again in FY2019-2020 for the new WRF and sewer collection lines. A short term bond anticipation note is planned for the FY2018 budget as gap financing if the 2017 bond proceeds are used prior to FY2020.
- Sewer rates will remain as previously projected at 15% in FY2019, 15% in FY2020, 10% in FY2021, 8% in FY2022, and 10% in FY2023.
- Continued capital replacement and improvement of sewer lines remains at about \$10 million per year for the next 5 years.

#### **New Water Reclamation Facility by 2025**

The FY2019 sewer budget continues to address federal and state water quality standards, including the nutrient removal standard, effective in FY2025. The Department is anticipating investing between \$325 million and \$510 million for the new WRF.

The proposed sewer budget for FY2019 has \$23.3 million planned projects at the WRF, of which \$18.4 million is directly for the new facility and the remaining to keep the existing plant functioning. Department preparation for a new facility includes \$2.0 million for an influent screening building.

<b>Forecast Future Rate Increases</b>	
2018/19	15%
2019/20	15%
2020/21	10%
2021/22	8%
2022/23	10%

#### **Bond Issues Anticipated**

The Department has forecasted budgeting bond issues of \$433 million through FY2025 to minimize rate increases as a blend of pay-as-you-go and borrowing. This incorporates a 30 year payback on bonds for intergenerational equity payback on the new WRF Facility. The investment strategy makes use of the City's professional financial advisors for measuring rising debt service and debt service ratios that also fit

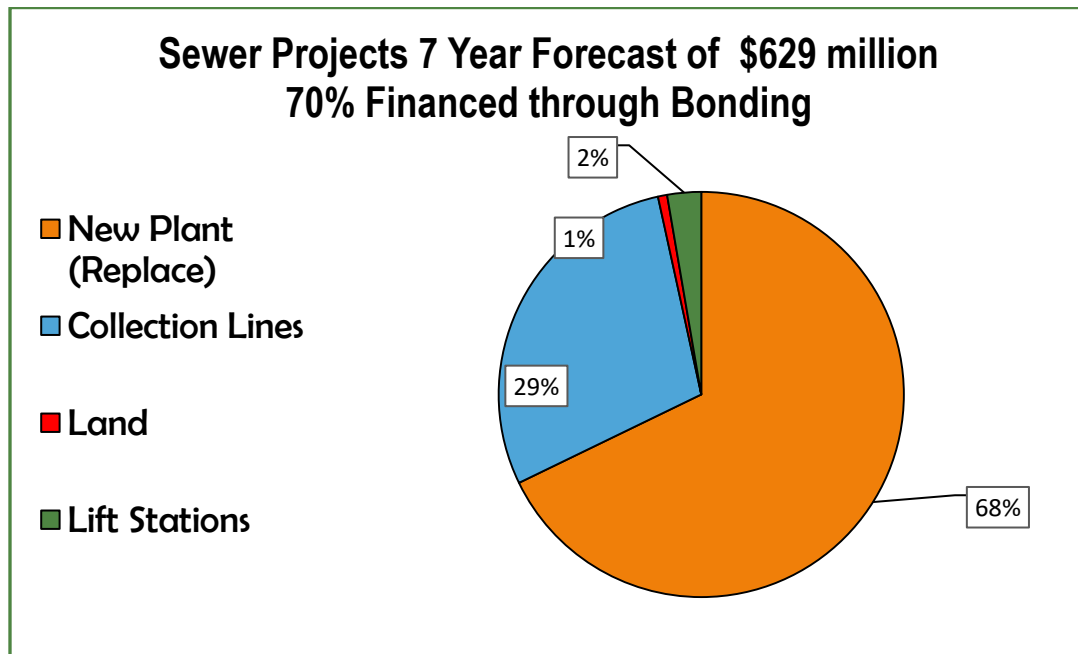


## FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET

standards required by external rating agencies. The Department intends to maintain its triple AAA rating to limit the costs of borrowing. The anticipated bond issuances in the next six years are as follows:

Planned Bond Issues	
2018/19 <i>short term note</i>	\$4,000,000
2019/20	\$160,000,000
2021/22	\$188,000,000
2023/24	\$85,000,000

The Illustration below show the percentage of projects in the four main categories in the Sewer Fund. The Department forecasts that it will issue \$437 million in revenue bonds (Three main issues) to finance a total of \$629 million for all Sewer projects in the chart. This figure includes the new WRF and improvements in the collection system through FY2025.



The \$437 million in bonds plus rate increases will go toward financing the budgeted plan of \$426.5 million in a new WRF Facility, \$180.8 million in collection system capacity upgrades and other worn out lines and lift stations that will also assist the needs for the Northwest Quadrant and Airport and others areas of restricted capacity flows through and from the west side to the treatment plant. Bond funds will also go toward Lift station projects of \$17 million and a required land purchase of \$4.6 million.



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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### **Sewer Collection Line Rehabilitation**

The FY2019 budget includes \$39.8 million for collection line improvements. An investment of \$32.4 million is budgeted for a master plan improvements such as the \$12.5 million for the 700 South capacity upgrades, other regular line improvements of \$1.5 million, County, State, and City related projects are \$1.9 million and other projects of \$4 million make up the \$39.8 million planned for FY2019.

### **Lift Station Rehabilitation**

The FY2019 budget includes a total of \$17 million for lift station projects. Lift station rehabilitation will include three significant lift stations: \$1.9 million is budgeted for the 4000 West lift station, \$2.6 million is budgeted for the 750 North 5600 West lift (Amazon) station, and \$12 million is budgeted for the 700 South master plan lift station project. The FY2019 budget also includes \$500,000 for completion of three smaller lift station projects.

### **Closure of the Northwest Oil Drain Canal Remediation**

The Northwest Oil Drain Canal near the Water Reclamation Facility has continuing work to close the remediation site. The Department in cooperation with Utah DEQ, US EPA, BP, and Chevron is budgeting \$300k in the Sewer Utility and \$200k in the Stormwater Utility. The budget reflects the full costs including the 2/3 reimbursement from Chevron and British Petroleum.

### **Sewer Infrastructure Background**

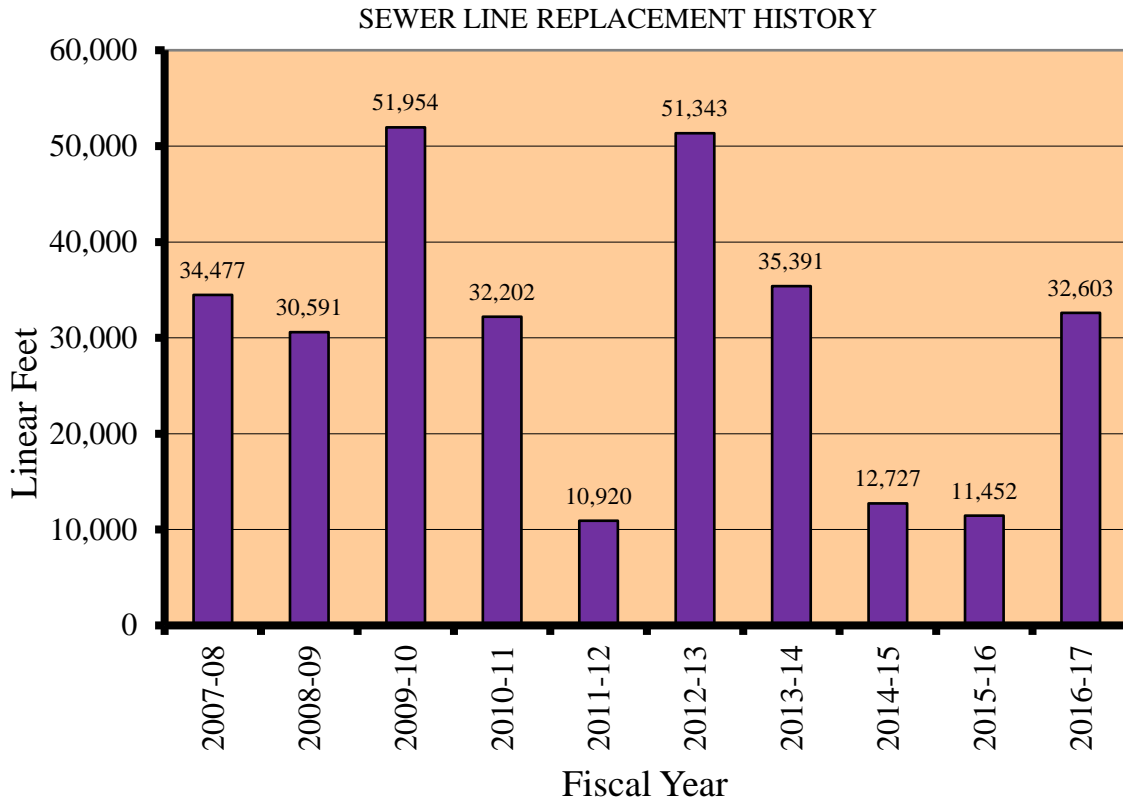
The sewer collection system (658 miles in 2016) is a very challenging environment; hydrogen sulfide gases, sediment, roots and other factors affect the competency of the collection lines. Because of the environment of the collection system there is a continual need to repair and replace bad pipe segments. More than 50% of the sewer collection system is more than 85 years old (see chart below). Sewer Utility Capital Improvement Program's goal is to rehabilitate at least 1% of the aged collection system every year (see line replacement chart).

## **Pipeline Age & miles for the Salt Lake City Sewer Collection System**





## FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET



. Sewer System Restoration Program in linear feet

### Analysis of Estimated Revenue

The FY2019 budget shows a revenue decrease of <\$30,584,598> million or <21.61%> to \$110,936,559 from the \$141,521,157 in the FY2018 amended budget. The decrease is caused by a reduction in the budgeted use of reserve funds. An analysis of the estimated revenue contained in the Department's Recommended Budget is as follows:

Revenue (Sewer)	Amended Budget 2017-2018	Proposed Budget 2018-2019	Difference	Percent
Sewer Services Fees	\$32,712,188	\$37,677,666	\$4,965,478	15.18%
Interest	1,263,356	1,052,000	(211,356)	-16.73%
Permits	70,000	70,000	0	0.00%
Other	165,000	165,000	0	0.00%
Bond / Note Proceeds	0	3,985,000	3,985,000	0.00%
Impact Fees	700,000	700,000	0	0.00%
Contributions	2,020,000	2,020,000	0	0.00%
Sale of Property	20,000	20,000	0	0.00%
From (To) Reserves	104,570,613	65,246,893	(39,323,720)	-37.60%
<b>TOTAL</b>	<b>\$ 141,521,157</b>	<b>\$ 110,936,559</b>	<b>(\$30,584,598)</b>	<b>-21.61%</b>



## FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET

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### Explanation of Revenue

Sewer service fees: Sewer service fees are expected to increase \$4,965,478, 15%, or approximately \$3.18 per month for the average residential with the proposed rate increase. The rate increase is needed to finance the capital improvement program and debt service of future related bond issues.

Interest Income: Interest income is expected to decrease \$<\$211,356> as cash balances are invested in capital improvement projects.

Permit fees: Permits are expected to remain constant with no change.

Other income: Other income is expected to remain constant with no change.

Bond / Note Proceeds: The department anticipates the possibility of ensuring the continuation of capital projects by raising \$3,985,000 from short-term financing, such as bond anticipation notes, as cash held by a trustee from the 2017 bond issue is applied to projects. The Department estimates that the short term financing arrangement will allow the Sewer Utility to postpone a bond issuance until FY2020 and to avoid or defer approximately \$2.5 million in bond interest expense.

Impact Fees: No change is budgeted.

Contribution by developers: No change is budgeted.

Reserve Funds: Reserve funds of \$65,246,893 mostly from the 2017 Bond issue will provide the additional financing gap needed to finance the Sewer Utility's budgeted capital projects in FY2019. Budgeted use of reserve funds decreases \$39.3 million from the FY2018 budget.

### Analysis of Estimated Expenditures

The FY2019 budget proposes a decrease of <\$30,584,598> million or <21.61%> to \$110,936,559 from the \$141,521,157 in expenditures in the FY2018 amended budget. The proposed budget for FY2019 by major category is as follows:

Major Expenditure Category (Sewer)	Amended Budget 2017-2018	Proposed Budget 2018-2019	Difference	Percent
Personnel services	\$9,717,084	\$10,375,345	\$658,261	6.77%
Materials and supplies	1,892,620	1,934,720	42,100	2.22%
Charges for services	7,128,365	6,211,994	(916,371)	-12.86%
Debt services	5,532,045	6,058,000	525,955	9.51%
Capital improvements	115,637,743	80,410,000	(35,227,743)	-30.46%
Capital outlay	1,613,300	5,946,500	4,333,200	268.59%
<b>TOTAL</b>	<b>\$141,521,157</b>	<b>\$110,936,559</b>	<b>(\$30,584,598)</b>	<b>-21.61%</b>



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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### **Explanation of Expenditures**

Personnel Services: Budgeted employee costs will increase \$658,261 or 6.77%. The sewer utility budget anticipates 2.95 additional FTEs for Sewer Utility's portion of 14 new employees across the Department. The FY2019 budget includes 2% COLA and a 7% increase in costs of employee insurance premiums.

Materials & Supplies: The Sewer Utility's budget for this category increases \$42,100. These changes are:

- Small tools and equipment increase \$10,800
- Laboratory supplies increase \$10,300
- Computer supplies increase \$7,000
- City building supplies increase \$5,000
- Permits increase \$4,000
- Eleven other items net increase \$5,000

Charges for Services: The budget for charges and services decreases <\$916,317>reflected in the following areas:

- Data processing increases \$75,000
- Payment in lieu of tax increases \$61,725
- Fleet maintenance increases \$25,000
- Travel and training increases \$15,700
- Utilities decrease <\$4,839>
- Other charges and services decrease <\$25,262>
- Administrative service fee decreases <\$50,000>
- Risk management decreases <\$175,000>
- Technical services decrease <\$840,000>

Debt Service: - The annual debt service budget increased \$525,955 in FY2019 in accordance with the debt service schedules of outstanding bond issues. Future bonds will increase debt service payments when they are issued.

Capital Outlay: - The proposed capital outlay budget for the FY2019 budget is \$5,946,500. The FY2019 capital outlay budget includes \$4.6 million for land, \$222,500 for a vehicles and trucks, \$517,000 for field maintenance equipment, \$370,000 treatment plant equipment, \$10,000 for telemetry, \$34,000 for office furniture and equipment, and \$193,000 for other non-motive equipment.

Capital Improvements: The proposed capital improvement program for FY2019 includes line upgrades and expansion, initial projects associated with the new WRF and maintaining



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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the old plant, lift stations improvements related to collection line redistribution, and the proposed finalization of environmental requirements in the Northwest Oil Drain. General project types budgeted for FY2019 are listed below:

<b>Proposed Sewer CIP Budget for Fiscal Year 2018-2019</b>	
<b>Type of Project</b>	<b>Budget Amount</b>
Treatment Plant	<b>\$23,310,000</b>
Collection Lines	<b>39,775,000</b>
Lift Stations	<b>17,025,000</b>
Maintenance and repair shops	<b>0</b>
Landscaping	<b>300,000</b>
<b>Total 2018-2019 Capital Improvement Program</b>	<b>\$80,410,000</b>



### **STORMWATER UTILITY ENTERPRISE FUND**

#### **Major Budget Issues for FY2019**

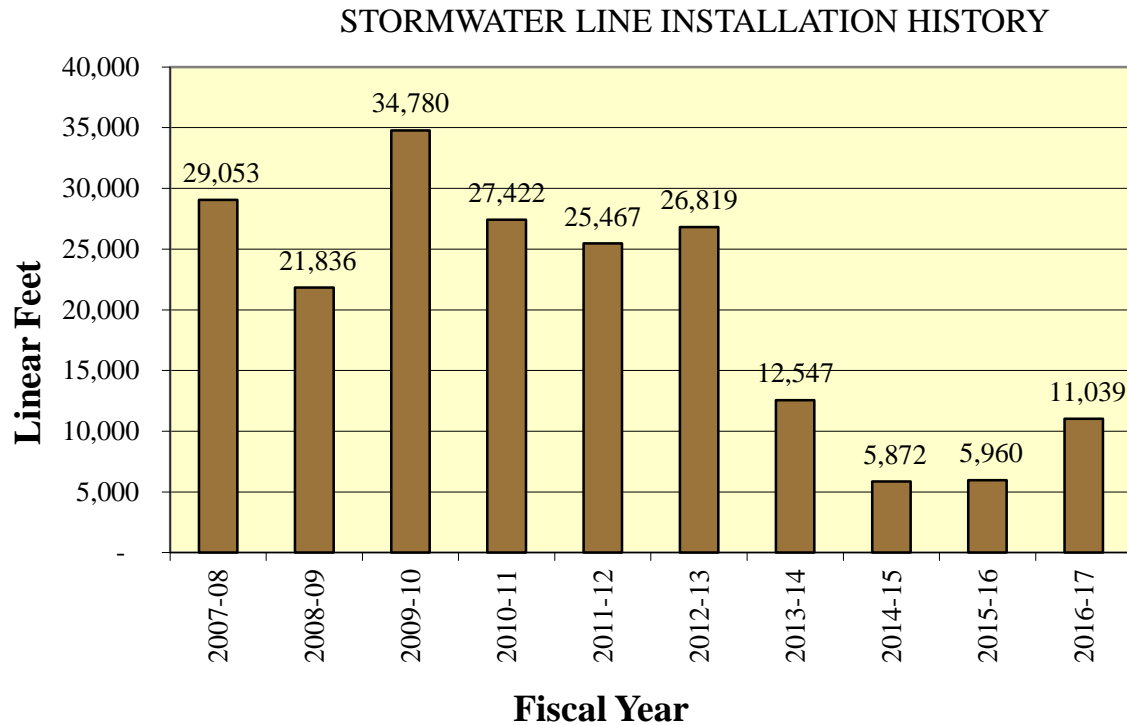
- A proposed rate increase of 10% or approximately \$0.45 per equivalent residential unit (ERU) per month. Dwindling cash reserves, stronger regulatory requirements and infrastructure needs are drivers for the proposed rate increase. Additional rate increases between 4% and 6% are projected through FY2022.
- The Stormwater capital improvement budget includes \$750,000 for lift stations and \$3,683,500 for 16 collection line improvement projects including drainage improvements on 1700 South, Gladiola Avenue, and 1300 East.
- The amount budgeted for riparian corridor projects is \$500,000 along Emigration creek and near the 10<sup>th</sup> North Lift Station.
- The Northwest Oil Drain Canal near the Water Reclamation Facility has continuing work to close the remediation site. The Department in cooperation with Utah DEQ, US EPA, BP, and Chevron is budgeting \$300,000 in the Sewer Utility and \$200,000 in the Stormwater Utility. The budget reflects the full costs including the 2/3 reimbursement from Chevron and British Petroleum.
- The Stormwater Utility in participation with the Sewer Utility may utilize some short term financing to raise an additional \$1.3 million for FY2019 to be paid back with the issuance of bonds in FY2020.
- Possible Bonding in FY2020 of \$5.3 million for flooding mitigation projects of 1700 South and 1300 East that continue from FY2019.

#### **Stormwater Infrastructure Background**

The Drainage Master Plan was completed in 1993. The projects identified in the Master Plan provide direction and areas that may or have already been completed. In the last ten years 40.1 miles of storm drain pipe has been installed (see graph next page). Some of the major projects that have been completed in the last 15 years are also shown on the table in the next page. The Fiscal Year 2019 budget includes \$700k to begin an update of the Drainage Master Plan to plan for changing climate conditions and green infrastructure.



## FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET



### New Drainage Pipe Installed in the Last 10 Years

2006	900 South Storm Drain.....	\$16m
2007	CWA #2 Pump Station.....	\$1.2m
2008	City Creek Diversion .....	.. \$4m
2009	Upgrade Oil Drain Station.....	\$700k
2012	Folsom Storm drain .....	\$8m
2013	500 South pump station .....	\$1m
2017	2100 East 2200East Storm Drain...	\$1.2 m
—	Westside Drainage Channels.....	(yearly program)
—	Replace Cross Drains in Ave.....	(yearly program)

### Major Drainage Projects in past 10 Years



## FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET

### Analysis of Estimated Revenue

An analysis of the estimated revenue anticipated in the budget for the Stormwater Utility is as follows:

Revenue (Storm)	Amended Budget 2017-2018	Proposed Budget 2018-2019	Difference	Percent
Operating Sales	\$8,050,000	\$8,855,000	\$805,000	10.00%
Interest	65,820	33,000	(32,820)	-49.86%
Impact fees	200,000	200,000	0	0.00%
Contributions	516,000	650,000	134,000	25.97%
Other	1,000	1,000	0	0.00%
Bond / Note	0	1,345,000	1,345,000	
From (To) Reserves	5,169,421	2,492,300	(2,677,121)	-51.79%
<b>TOTAL</b>	<b>\$14,002,241</b>	<b>\$13,576,300</b>	<b>(\$425,941)</b>	<b>-3.04%</b>

### Explanation of revenue

Operating Sales: A rate increase of 10% or about \$0.45 per ERU per month is proposed raise \$805,000 to cover capital improvements, debt service in future years and operational needs.

Interest Income: Interest earned will decrease <\$32,820> as amounts from reserves continues to decrease cash balance.

Impact Fees: No change.

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

Other Fees: No change.

Bond / Note Proceeds: The department anticipates the possibility of needing to raise \$1,345,000 from short-term financing, such as bond anticipation notes, as cash reserves are applied to projects. The Department estimates that the short term financing arrangement will allow the Stormwater Utility to postpone a bond issuance until FY2020 and to avoid or defer approximately \$83,000 in bond interest expense.

Reserve Funds: Reserve funds of \$2,492,300 will be required to provide financing needed for the Utility's capital improvement program. These reserve funds from prior years' earnings directly reduce the Utility's cash reserves. FY2019 budgeted use of reserve funds is down <51.79%> or <\$2,677,121> from the FY2018 budget.



## FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET

### Analysis of Estimated Expenditures

The expenditure budget for the Stormwater Utility is proposed to decrease <\$425,941> or <3.04%> from the FY2018 budget. The proposed budget for fiscal year FY2019 by major expenditure category is as follows:

Major Expenditure Category (Storm)	Amended Budget 2017-2018	Proposed Budget 2018-2019	Difference	Percent
Personnel services	2,540,766	2,872,608	\$331,842	13.06%
Materials and supplies	179,350	186,450	7,100	3.96%
Charges for services	3,828,344	3,854,174	25,830	0.67%
Debt Service	1,010,724	1,014,000	3,276	0.32%
Capital improvements	6,132,667	5,133,500	(999,167)	-16.29%
Capital outlay	310,390	515,568	205,178	66.10%
<b>TOTAL</b>	<b>\$14,002,241</b>	<b>\$13,576,300</b>	<b>(\$425,941)</b>	<b>-3.04%</b>

### Explanation of Expenditures

Personnel Services: The proposed budget increases employee costs \$331,842 or 13.06%. The Stormwater Utility budget anticipates an increase of 1.68 FTEs for the Stormwater Utility's distribution of 14 new employees across the Department. The FY2019 budget includes 2.5% COLA and a 7% increase in costs of employee insurance premiums..

Materials & Supplies: Materials and Supplies increase \$7,100:

- Computer supplies increase \$3,500
- Motive parts and accessories increase \$1,000
- Non motive parts increase \$2,100
- Laundry and linen supplies increase \$500

Charges & Services: This category increases \$25,830. The increase is related to the following charges and services:

- Billing services increase \$149,137
- Utilities increase \$39,024
- Payment in lieu of tax increases \$16,157
- Data processing charges increase \$4,700
- Other charges and services increase \$2,649
- Travel and training decreases <\$250>



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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- Technical services decrease <\$185,587>

Debt Service: No change expected in debt service payments even with short term borrowing.

Capital Outlay: The proposed capital outlay budget increases \$205,178 to \$515,568. The capital outlay budget includes \$85,500 for vehicles, \$379,068 field maintenance equipment, \$46,000 for telemetry for the lift stations, and \$5,000 for other non-motive equipment.

Capital Improvements: The proposed capital improvement budget of \$5,133,500 is comparable to FY2018 budget and includes \$800,000 to begin improvements on 100 South and \$986,000 to begin improvement on 1300 East. The capital improvement budget for FY2019 includes major categories of projects as follows:

<b>Proposed Storm CIP Budget for Fiscal Year 2018-2019</b>	
<b>Type of Project</b>	<b>Budget Amount</b>
Collection Lines	<b>\$3,683,500</b>
Riparian Corridor Improvements	<b>500,000</b>
Lift Stations	<b>750,000</b>
Landscaping	<b>200,000</b>
<b>Total 2018-2019 Capital Improvement Program</b>	<b>\$5,133,500</b>



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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### **STREET LIGHTING UTILITY ENTERPRISE FUND**

#### **Major Budget Issues for FY2019**

- No rate changes are proposed for FY2019 or the next few years. the base lighting rates were established the beginning of January 2013 for \$3.73 per month for an average residential customer, or Equivalent Residential Unit (ERU), and are expected to remain unchanged and sufficient for this fiscal year. Rates for enhanced tiers are \$5.67, Tier 2 \$15.94, Tier 3 \$43.82.
- Private lights program will be implemented. This \$20,000 transfer from the General Fund expresses the on-going desire of the City Council to provide a matching support to reduce the capital costs to neighborhoods installing private street lighting. Public Utilities administers this program.
- The Street Lighting Capital Program focuses on replacing aging light poles with energy efficient upgrades. Street Lighting capital improvements totaling \$2,605,000 are planned in the FY2019 including energy efficiency upgrades, wattage upgrades, system upgrades, and the replacement of poles, bulbs, fixtures, and wiring.

#### **Street Lighting Infrastructure Background**

Of the 15,581 lights that the city maintains, about 8,250, or 53%, are now considered to be energy efficient. We are in the fifth year of a ten year goal to convert all of the lights to high energy efficiency lamps. Another 1,500 lights are expected to be converted to energy efficient lamps in FY2019. The Street Lighting Utility is saving energy that has approximately \$300,000 favorable effect on the FY2018 budget and a similar effect in future years. There have been and may still be energy saving rebates available as the conversion continues.

#### **Analysis of Estimated Revenue**

An analysis of the estimated revenue anticipated in the budget for the Street Lighting Utility is as follows.

<b>Revenue (Lights)</b>	<b>Amended Budget 2017-2018</b>	<b>Proposed Budget 2018-2019</b>	<b>Difference</b>	<b>Percent</b>
Operating Sales	\$4,152,371	<b>\$4,170,000</b>	17,629	0.42%
Interest	30,000	<b>52,000</b>	22,000	73.33%
Other	2,000	<b>2,000</b>	0	0.00%
General Fund Cont.	20,000	<b>20,000</b>	0	0.00%
From (To) Reserves	914,171	<b>1,324,117</b>	409,946	44.84%
<b>TOTAL</b>	<b>\$5,118,542</b>	<b>\$5,568,117</b>	<b>449,575</b>	8.78%



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

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### **Explanation of Revenue**

Operating Sales: Operating sales are expected to remain unchanged from the prior year amended budget. (The difference is round rounding in the estimated budget for FY2019.)

Interest Income: Interest income increases. Historically approximately 1.5% of beginning cash is earned in interest. Interest is increasing because of unspent bond proceeds.

Other Fees: Other fees are budgeted to remain unchanged.

General Fund Contributions: No change. Public Utilities anticipates the general fund to continue contributing \$20,000 for private light options in FY2019.

Bonds: No additional bonding is anticipated.

Reserve Funds: The FY2019 budget anticipates using \$1,324,117 from the utility's reserve funds—mostly unspent bond proceeds from the 2017 bond issue.

### **Analysis of Estimated Expenditures**

The Department proposes an expenditure budget of \$5,568,117 for the Street Lighting Utility an increase of \$449,575 or 8.78% from the FY2018 amended budget. The proposed budget for fiscal year FY2019 by major expenditure category follows:

<b>Major Expenditure Category (Lights)</b>	<b>Amended Budget 2017-2018</b>	<b>Proposed Budget 2018-2019</b>	<b>Difference</b>	<b>Percent</b>
Personnel services	\$259,424	<b>\$198,307</b>	<b>(61,117)</b>	<b>-23.56%</b>
Materials and supplies	7,300	<b>7,300</b>	0	0.00%
Charges for services	2,381,770	<b>2,654,510</b>	272,740	11.45%
Debt Service	85,048	<b>103,000</b>	17,952	21.11%
Capital improvements	2,385,000	<b>2,605,000</b>	220,000	9.22%
Capital equipment	0	<b>0</b>	0	0.00%
<b>TOTAL</b>	<b>\$ 5,118,542</b>	<b>\$ 5,568,117</b>	<b>449,575</b>	<b>8.78%</b>

### **Explanation of expenditures**

Personnel Services: The proposed budget decreases employee costs <\$61,117> or <23.56%>. The Street Lighting Utility budget anticipates a decrease of<0.92> FTEs because some employees were redistributed based on how they work with the various utilities within the department. The FY2019 budget includes 2% COLA and a 7% increase in costs of employee insurance premiums.

Materials & Supplies: No change.



## **FY2019 PUBLIC UTILITIES RECOMMENDED BUDGET**

Charges & Services: The proposed budget for charges and services increases \$272,740 or 11.45% in FY2019. The changes are as follows:

- Technical services increase \$279,708
- Electricity costs are budgeted to decrease <\$7,768>
- Other charges and services increase \$800

Debt Service: In compliance with the outstanding bond, Series 2017 Bond, budgeted debt service payments increase \$17,952.

Capital Equipment: No expenditures for capital equipment are planned.

Capital Improvements: The proposed capital improvement budget is \$2,605,000 with an increase of \$220,000 or 9.22% from the FY2018 amended budget. The capital improvement budget for FY2019 is as follows for base lighting and all enhanced tiers:

<b>Proposed Street Lighting CIP for Fiscal Year 2018-2019</b>	
<b>Type of Project</b>	<b>Budget Amount</b>
System upgrade for high efficiency and uniformity	<b>\$2,215,000</b>
Rewiring of street lights	<b>365,000</b>
Capital replacement	<b>25,000</b>
<b>Total 2018-2019 Capital Improvement Program</b>	<b>\$2,605,000</b>







# FY 2019 Department Budget Summary

- **Rate increases are as projected in the FY18 Budget Forecast for Water and Sewer, \$6.04 per month for the average residence with Water, Sewer and Stormwater rates changes.**
  - Water 4% or \$2.41 per average residence in the City
  - Sewer 15% or \$3.18 per average residence
  - Stormwater 10% or \$0.45 per ERU
- **No Bonds FY2019, but a possible \$5.3 million short term, low Interest note if needed.**
- **Major construction projects increase capital budget \$21.9 million to \$134.8 million.**
  - Sewer capital budget of \$86.3 million
    - Includes \$18.4 million for the New WRF Plant, \$5 million for Lift Stations, and \$52.8 million in other collection system projects, \$4.9 million in reclamation projects, and \$5.9 million equipment
  - Water capital budget of \$40.2 million
    - Includes \$7.2 million for treatment plants, \$18.7 million for water mains, hydrants and connections, \$4.3 million for reservoirs, \$3.7 million for wells, and \$1.7 million for pump stations, culverts, flumes, bridges, and landscaping, and \$4.6 million for land and equipment
  - Stormwater capital budget of \$5.6 million
    - Includes \$3.7 for collections system, \$750k for lift stations, \$500,000 for the riparian corridor, \$200k for landscaping, and \$516k for equipment.
  - Streetlighting capital budget of \$2.6 million
    - Includes \$2.2 for system / high efficiency upgrades, \$365k for rewiring, and \$25k for replacement
- **Operating budget increases \$4.5 million to \$91.2**
  - Includes increase of \$1.2 million for 14 new FTEs, 2.5% Cola, 7% increase in health premiums, 3% increase in metropolitan water costs, and a new stormwater master plan
  - New FTEs anticipates succession planning, regulatory compliance, engineering support and water right adjudication
- **Debt services spending budget increases \$800k to \$8.3 million**
  - Scheduled capital spending facilitates delaying bonds previously planned for FY2019 until FY2020
  - Short-term financing shown to balance the FY2019-need will depend on spending 2017 sewer bonds.

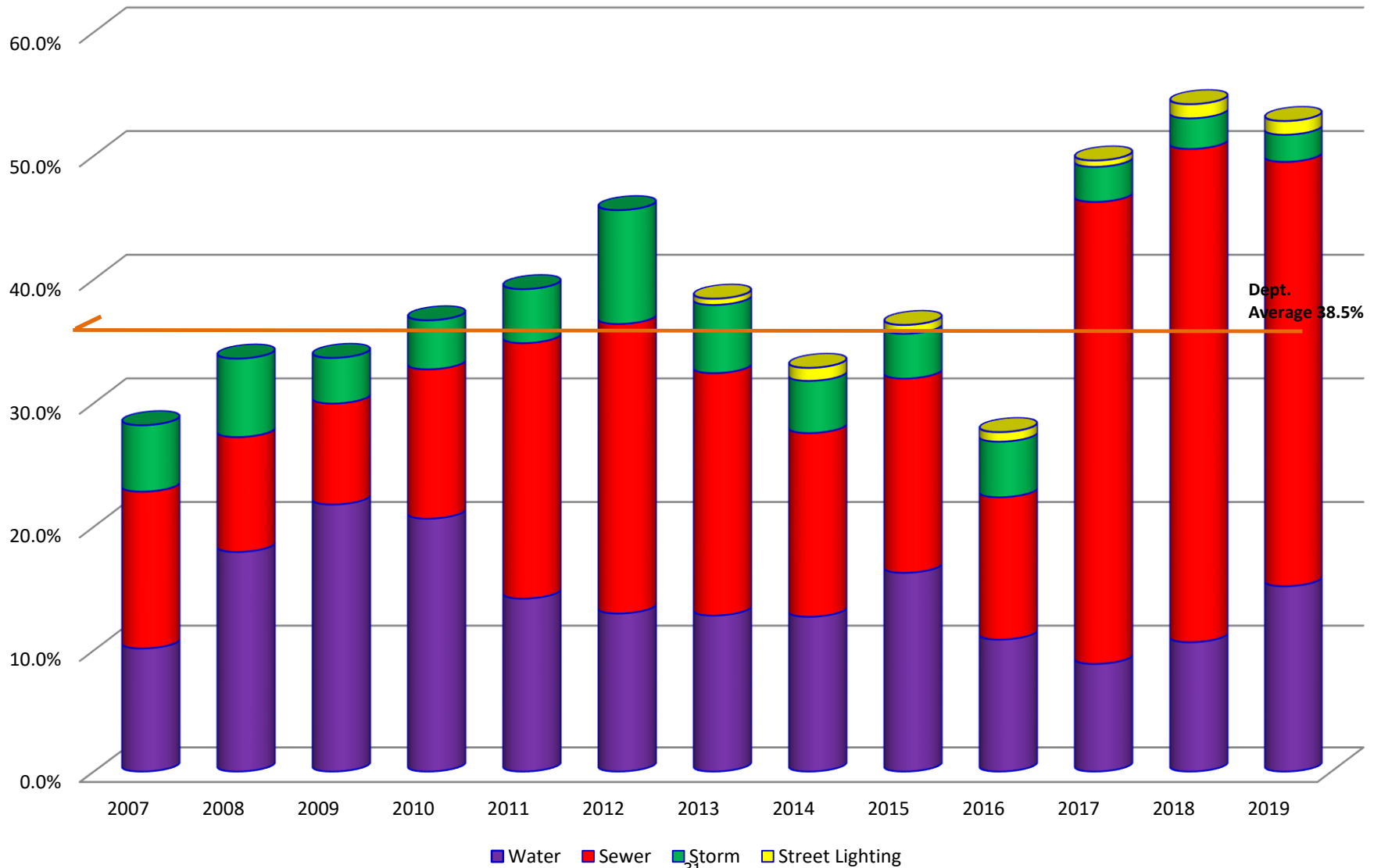


# Proposed & Projected 5 Year Rate Increases

Year	Water	Sewer	Stormwater	Street Lighting
2018-19 PROPOSED	4%	15%	10%	0%
2019-20	4%	15%	6%	0%
2020-21	4%	10%	4%	0%
2021-22	4%	8%	4%	0%
2022-23	4%	10%	0%	0%

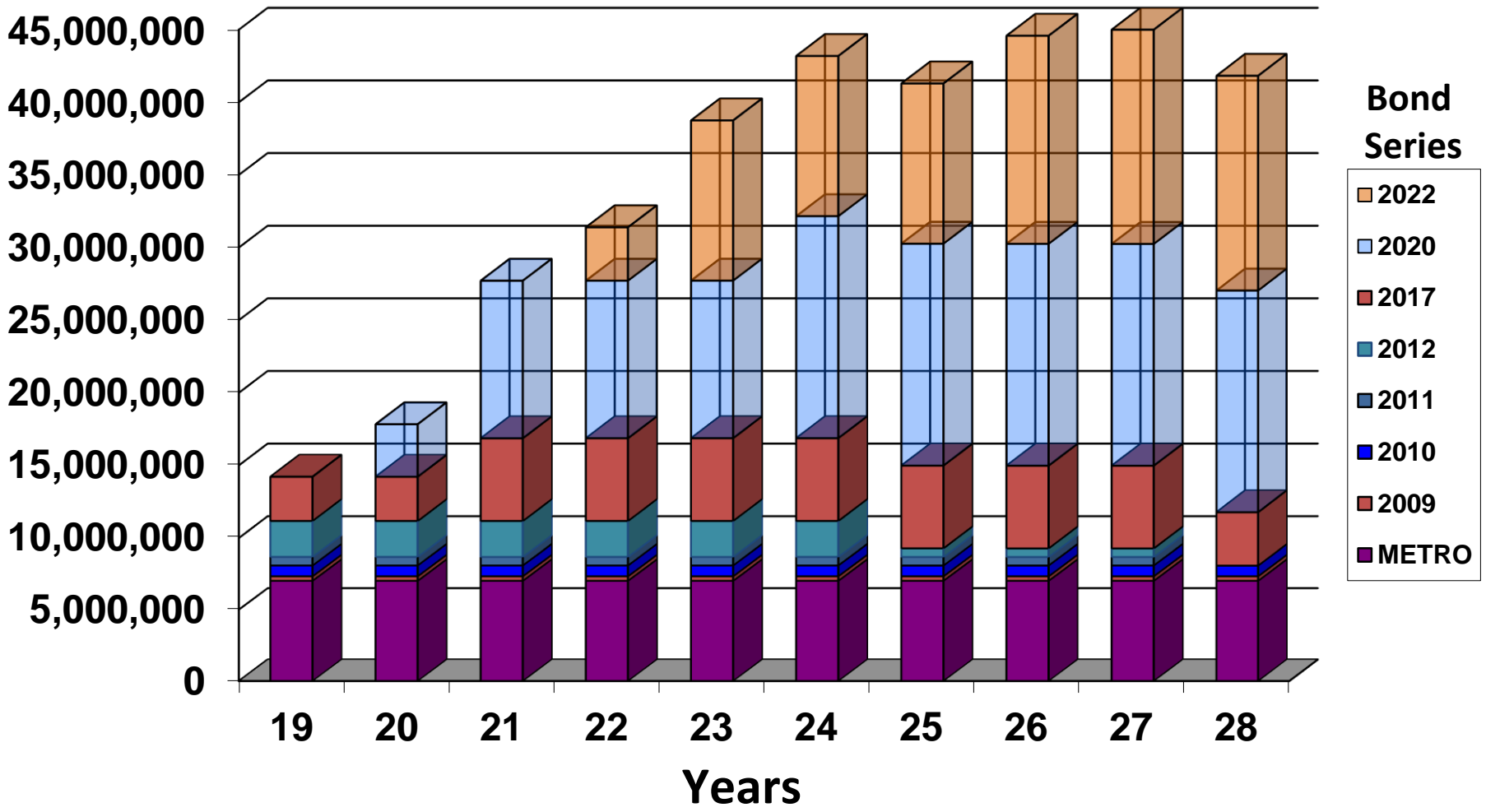


## Public Utilities CIP Budget as a Percent of Department Requested Budget





# Public Utilities Proposed Debt Service Schedule and Metropolitan Water Assessment





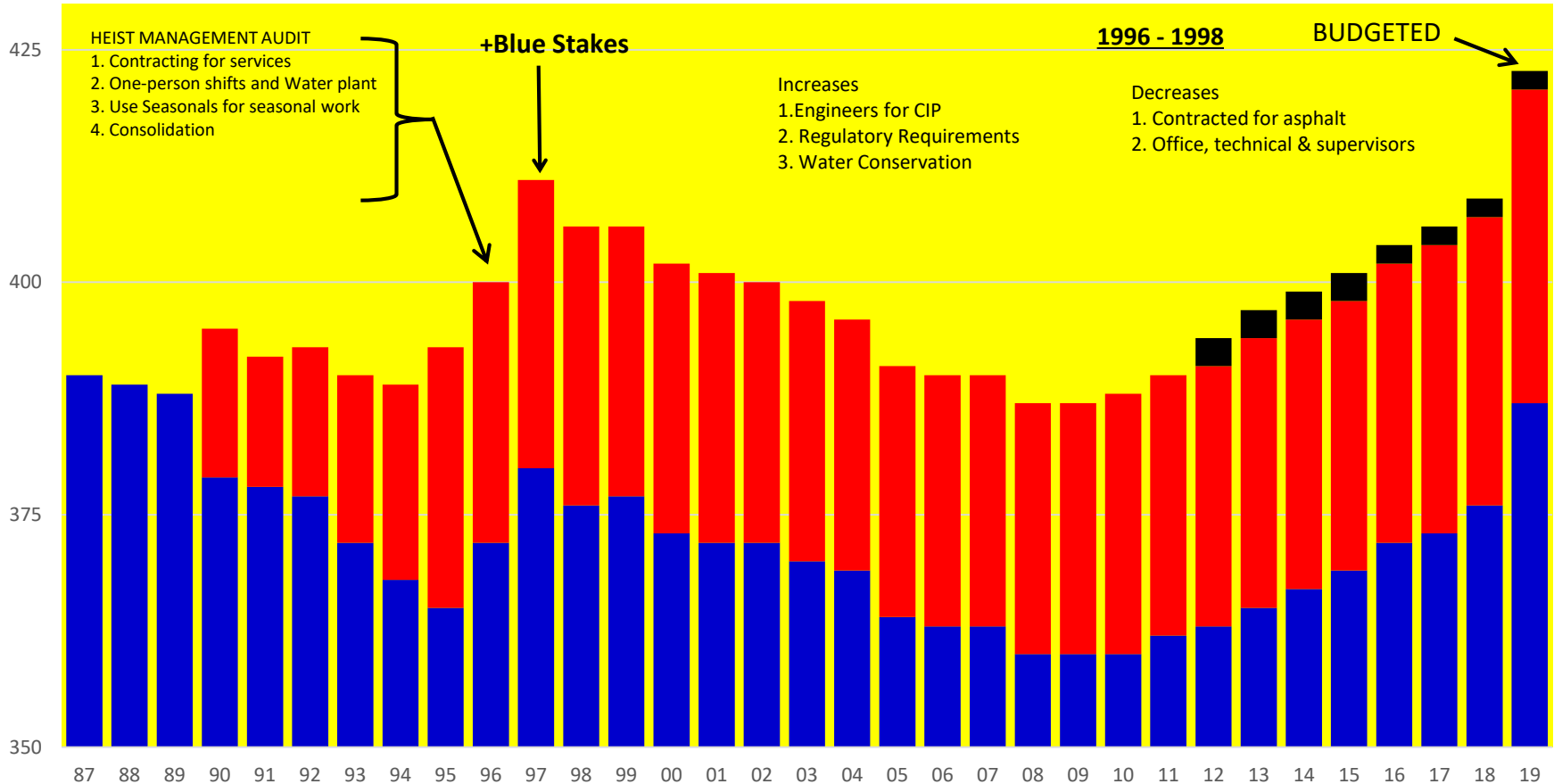
# Proposed Personnel Adjustments FY 2018/19

<u>NEW JOBS REQUESTED FOR FY 18/19</u>					
	<u>Total FTEs</u>	<u>WATER</u>	<u>SEWER</u>	<u>STORM WATER</u>	<u>STREET LIGHTING</u>
<b>Prior Year 2018 Beginning Balance</b>	<b>408.50</b>	<b>262.53</b>	<b>112.43</b>	<b>31.12</b>	<b>2.42</b>
1) PROJECT CONTROL SPECIALIST	1.00	0.50	0.38	0.10	0.02
2) DOCUMENT CONTROLS SPECIALIST	1.00	0.50	0.38	0.10	0.02
3) ENGINEERING TECHNICIAN III	1.00	0.50	0.38	0.10	0.02
4) ENGINNERING TECHNICIAN III	1.00	0.50	0.38	0.10	0.02
5) WATER RIGHTS ASSISTANT	1.00	0.50	0.25	0.25	
6) WATERSHED RANGER	1.00	1.00			
7) WATER PLANT OPERATOR II	1.00	1.00			
8) STORMWATER COMPLIANCE SPECIALIST	1.00			1.00	
9) STORMWATER TECHNICIAN	1.00			1.00	
10) PRETREATMENT INSPEC / PERMIT WRITER	1.00		1.00		
11) SENIOR WATER SYSTEM MAINTENANCE LEAD	1.00	1.00			
12) WATER SYSTEM MAINTENANCE OPERATOR II	1.00	1.00			
13) WATER SYSTEM MAINTENANCE OPERATOR I	1.00	1.00			
14) OFFICE FACILITATOR I - SHOPS PAYROLL (REPLACING VACATED BY HR )	1.00	0.74	0.18	0.08	
<b>TOTAL NEW FTE'S</b>	<b>14.00</b>	<b>8.24</b>	<b>2.95</b>	<b>2.73</b>	<b>0.08</b>
<b><u>CHANGES DUE TO PAY REDISTRIBUTION:</u></b>	1.00	2.00	0.05	-1.05	-1.00
<b>TOTAL CHANGES TO FTE'S</b>	14.00	10.24	3.00	1.68	-0.92
	33				
<b>Projected Agency Total FTEs for 2019</b>	<b>422.50</b>	<b>272.77</b>	<b>115.43</b>	<b>32.80</b>	<b>1.50</b>



# PUBLIC UTILITIES

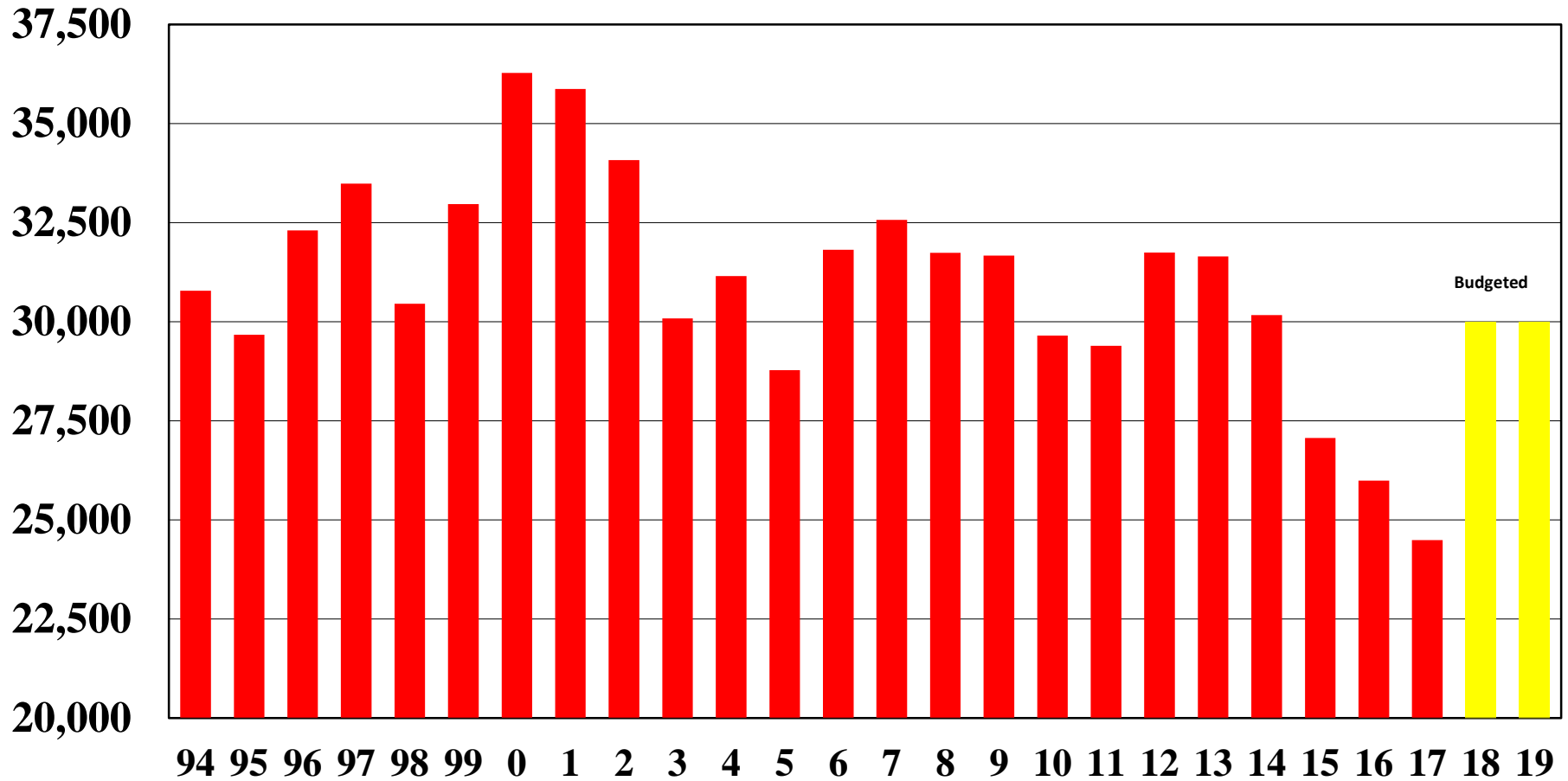
## NUMBER OF EMPLOYEES BY FISCAL YEAR



	87	88	89	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
Water & Sewer	390	389	388	379	378	377	372	368	365	372	380	376	377	373	372	372	370	369	364	363	363	360	360	360	362	363	365	367	369	372	373	376	387
Storm Water				16	14	16	18	21	28	28	31	30	29	29	29	28	28	27	27	27	27	27	27	28	28	28	29	29	29	30	31	31	34
Street Lighting																										3	3	3	3	2	2	2	2
# of Water Connections	80,860	82,640	83,129	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	???	???



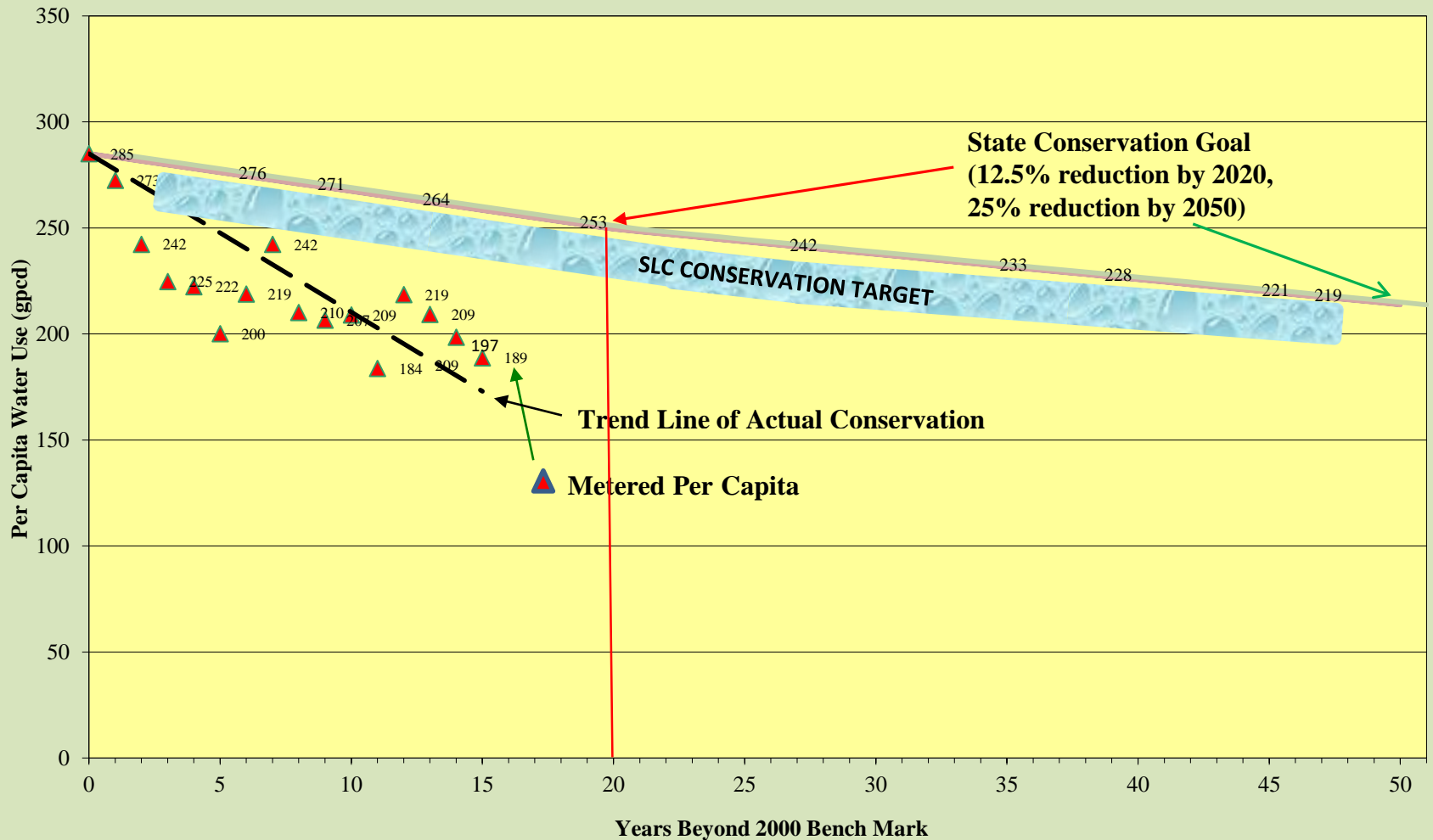
# MILLION GALLONS DELIVERED BY YEAR





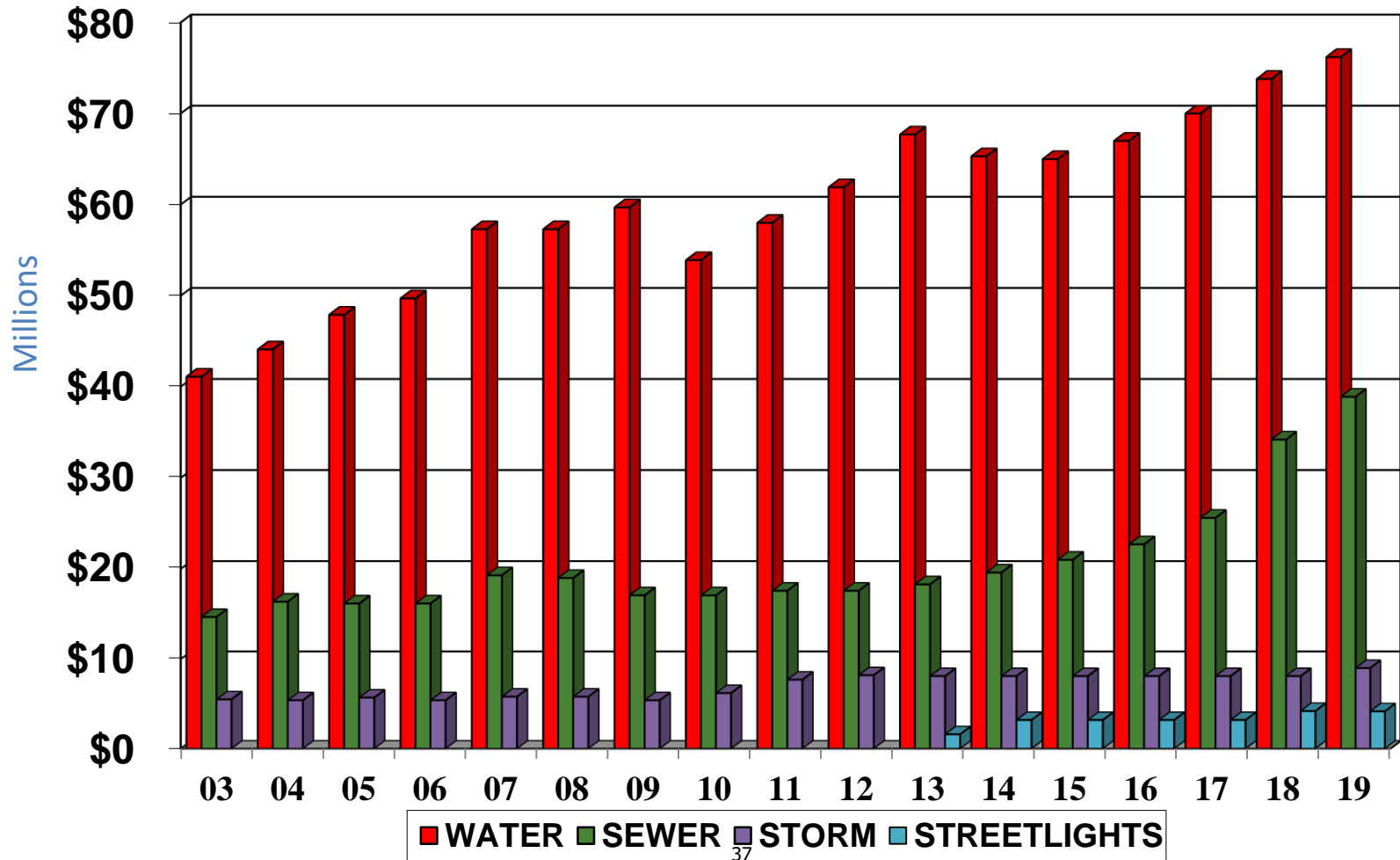
# Salt Lake City Conservation Trend

## Documentation of Conservation Performance



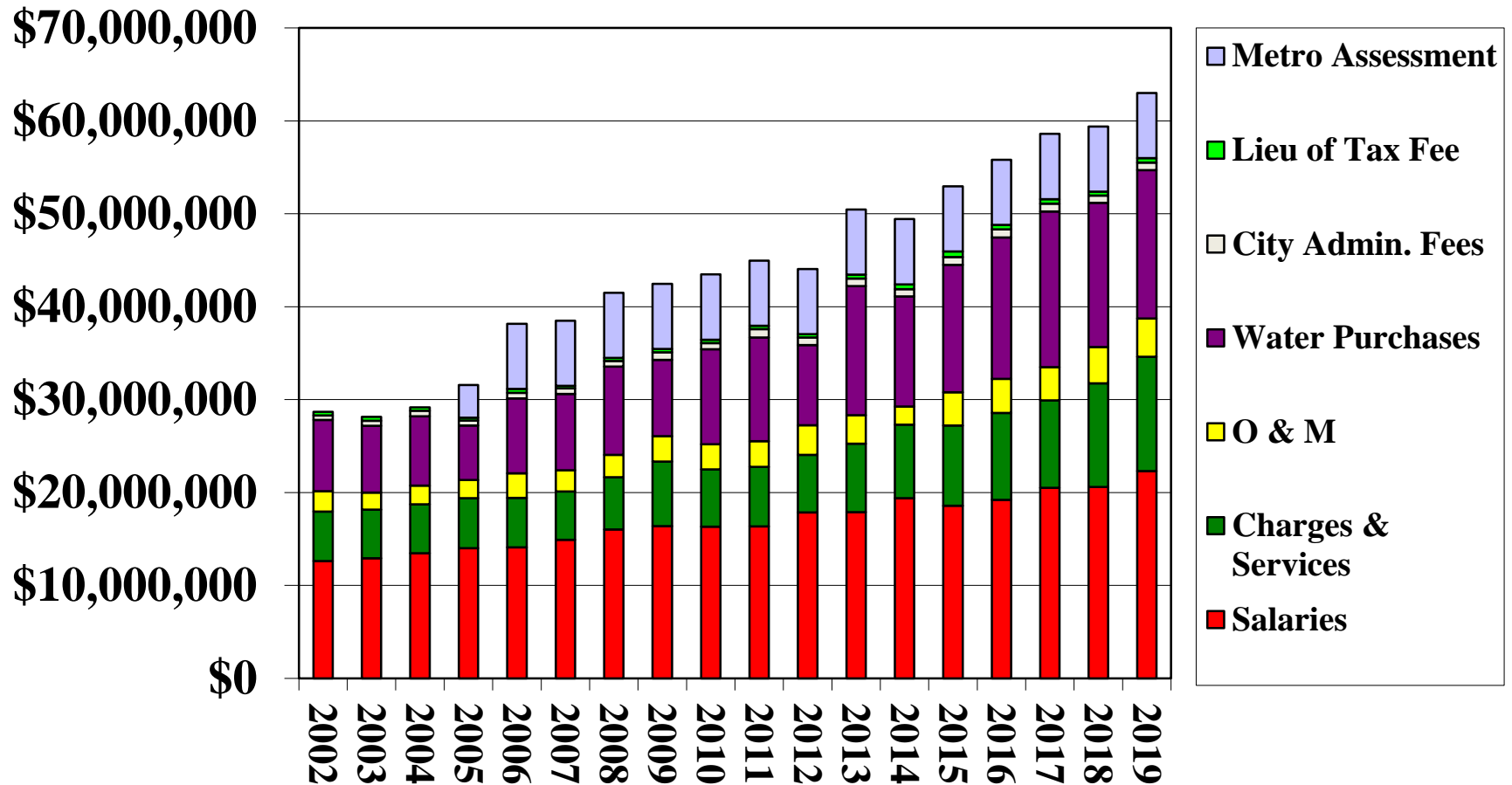


# Public Utilities Operating Revenue



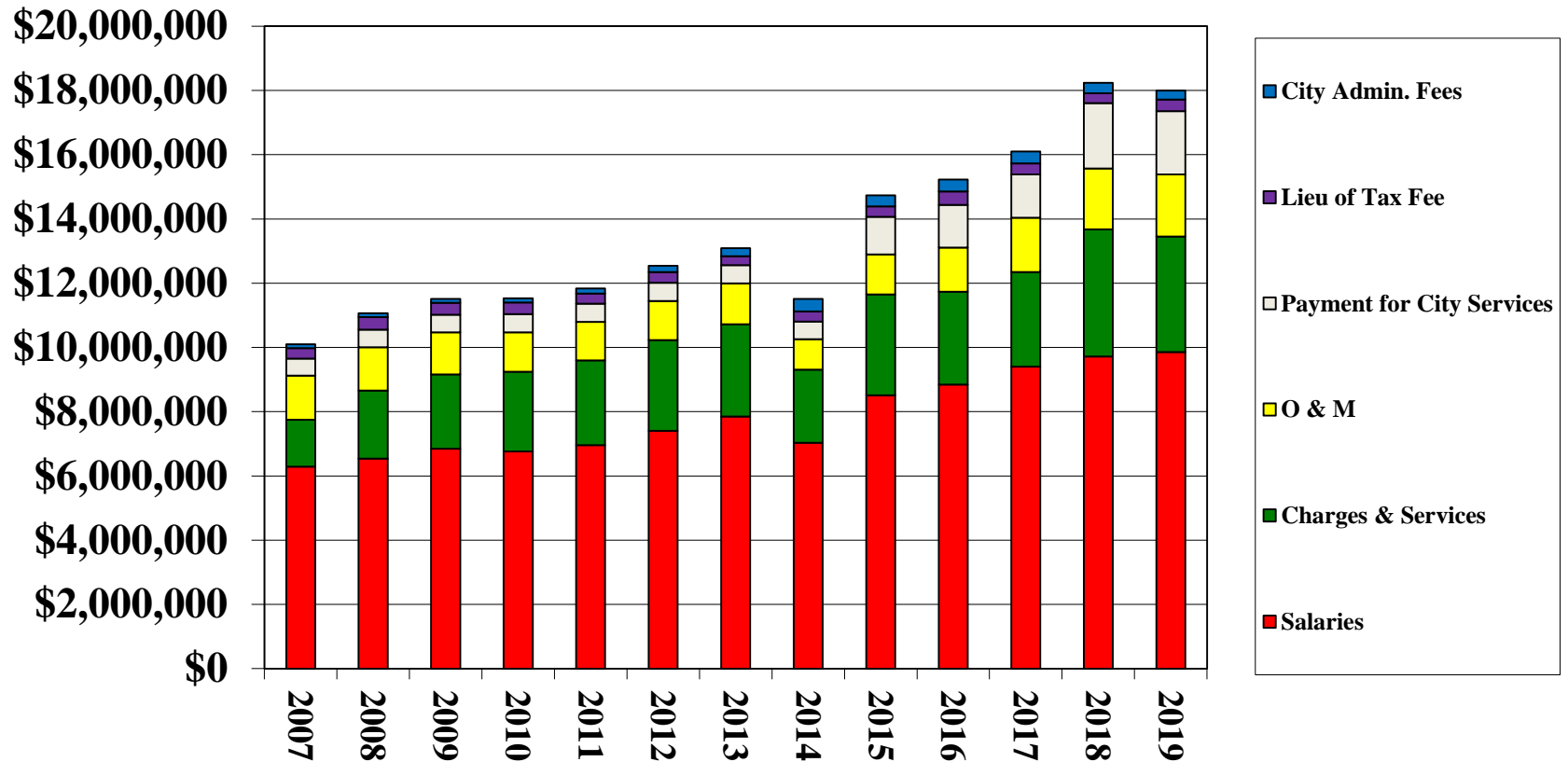


# WATER UTILITY OPERATING COSTS



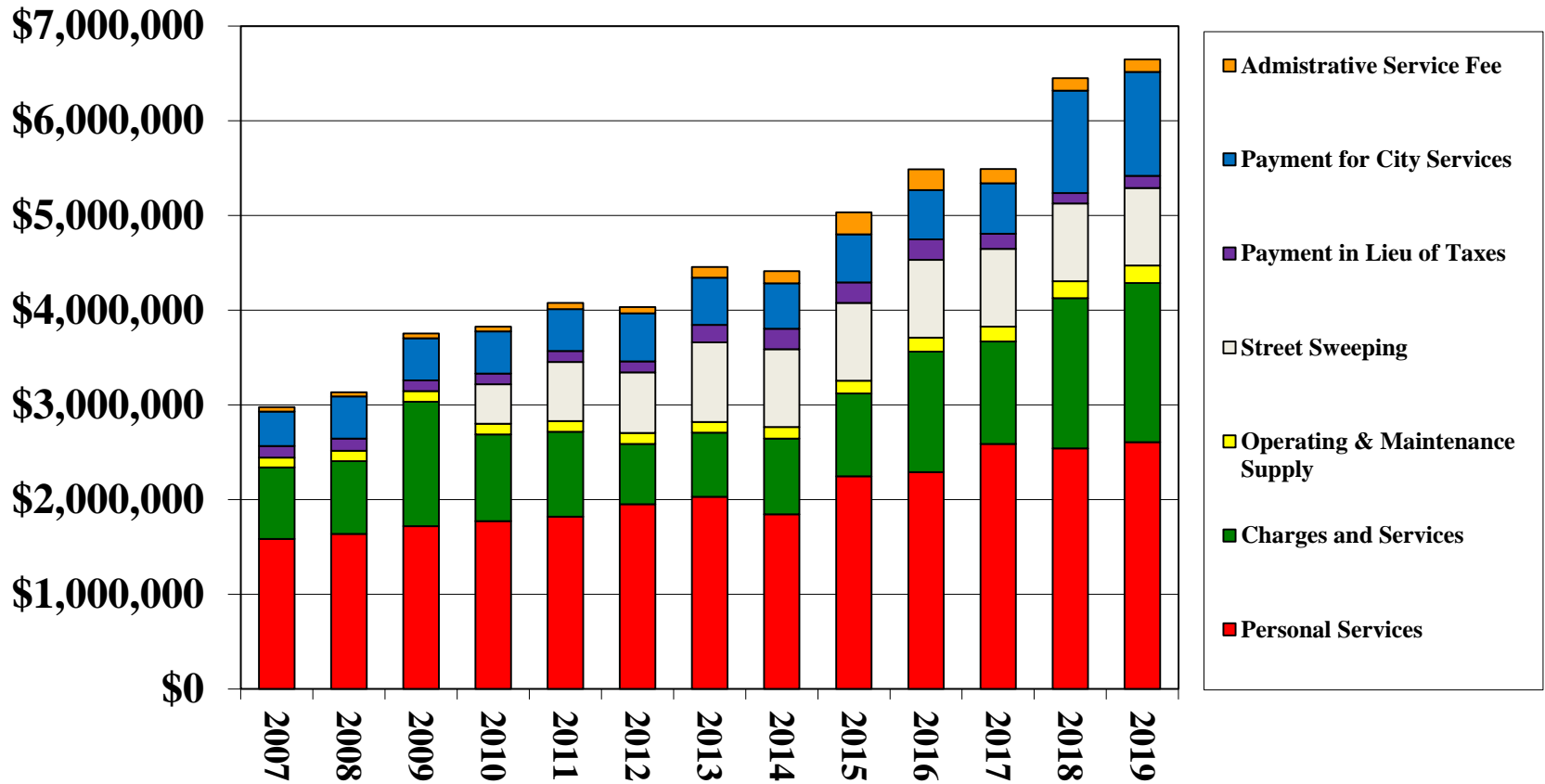


# SEWER UTILITY OPERATING COSTS



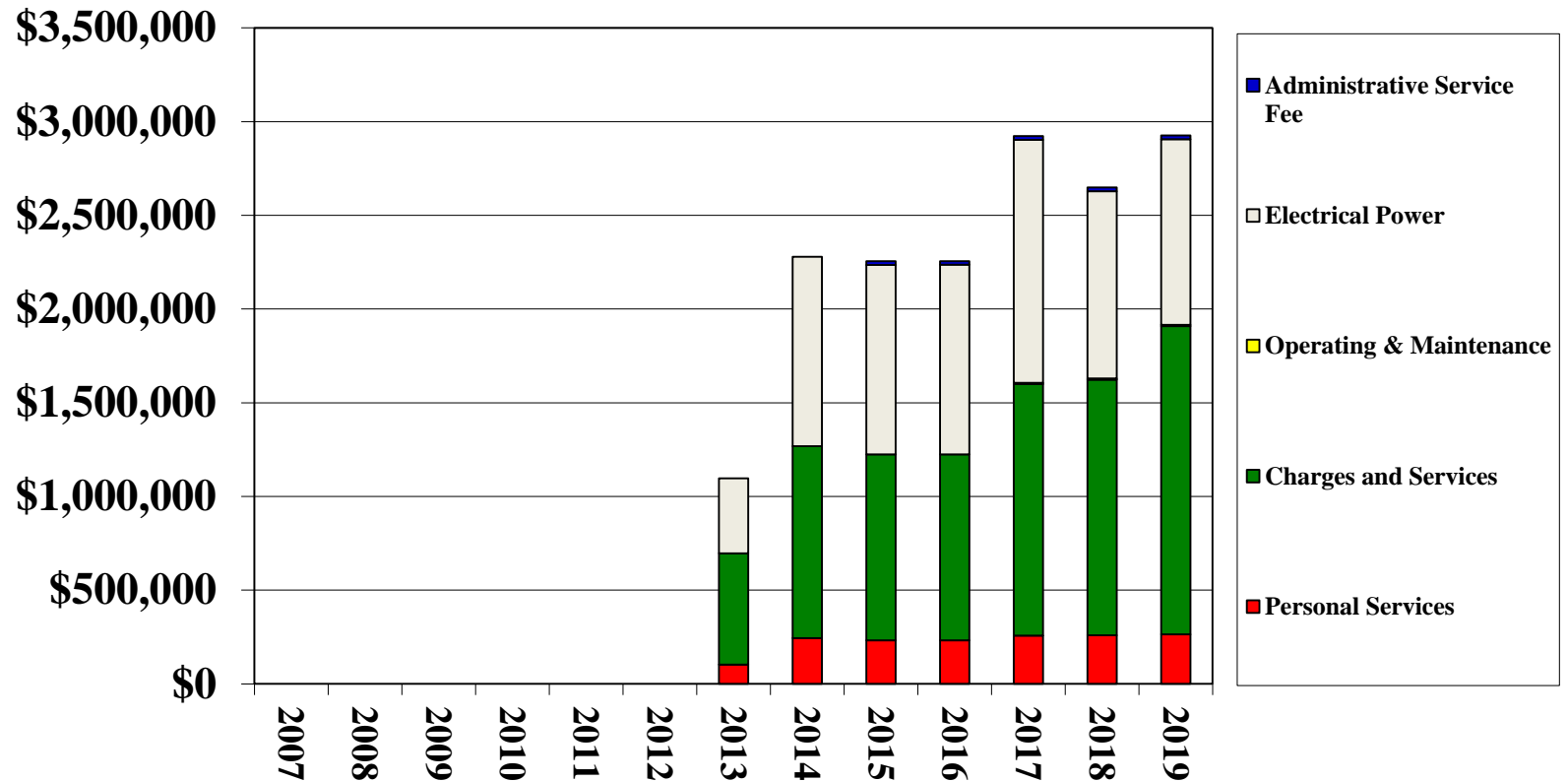


# STORM WATER UTILITY OPERATING COSTS





# STREET LIGHTING UTILITY OPERATING COSTS





## Water Operating Budget Differences from Prior Year to FY 2018-19

<b>Salaries:</b> Cola, Insurance, Step Upgrades, FTE 8.24	\$ 1,484,361
<b>Operations &amp; Maintenance:</b> Computer Supplies, Repair Work, Bldg. Supplies, Lab Supplies, Small Tools, Safety, Culvert Material, Other Supplies	\$ 317,450
<b>Travel &amp; Training:</b> In City Conventions & Workshops, Out of Town Travel	\$ 21,260
<b>Utilities Cost:</b> Electric, Gas, Sewer, Street Lighting Fund Fees	\$ 108,999
<b>Professional and Technical Services:</b> Public Relations, Counseling Services, Chemical Analysis, Water Filing Fees	\$ <273,680>
<b>Data Processing:</b> City Data Processing Service, Computer Equip. Maint., Communication Contract, Preventive Maint. Contract, Micro-Computer Discretionary	\$ 192,348
<b>Fleet Maintenance:</b> Preventive Maintenance	\$ <20,000>
<b>Payment in Lieu of Taxes</b>	\$ 77,515
<b>Metro Water Purchase &amp; Treatment</b>	\$ 465,868
<b>Bonding Note Expense</b>	\$ <5,000>
<b>Risk Management</b>	\$ <50,000>
<b>Other Charges and Services</b>	\$ <27,317>
<b>Total Increase</b>	\$ 2,291,804



## Sewer Operating Budget Differences from Prior Year to FY 2018-19

<b>Salaries:</b> Cola, Insurance, Step Upgrades, FTE 2.95	\$ 658,261
<b>Operations and Maintenance:</b> Computer Supplies, Bldg. Supplies, Lab Supplies, Small Tools, Parts and Accessories, Other Supplies	\$ 42,100
<b>Travel &amp; Training:</b> In City Conventions & Workshops, Out of Town Travel	\$ 15,700
<b>Utilities Cost:</b> Electric, Gas, Sewer, Duct Rental, Monthly Telephone Fee	\$ <4,839>
<b>Professional and Technical Services:</b> Auditor Fees, Special Consultant, Other Professional Services	\$ <840,000>
<b>Date Processing:</b> City Data Processing Service, Micro Computer Maintenance Contract	\$ 75,000
<b>Fleet Maintenance:</b> Maintenance Repair, Preventive Maintenance	\$ 25,000
<b>Administrative Services</b>	\$ <50,000>
<b>Payment in Lieu of Taxes</b>	\$ 61,725
<b>Risk Management</b>	\$ <173,695>
<b>Other Charges and Services</b>	\$ <25,262>
<b>Total Decrease</b>	<hr/> \$ <216,010>



## Stormwater Operating Budget Differences from Prior Year to FY 2018-19

<b>Salaries:</b> Cola, Insurance, Step Upgrades, Incease 1.68 FTEs	\$ 331,842
<b>Operations &amp; Maintenance:</b> Computer Supplies, Parts Non-Motive, Parts and Supplies	\$ 7,100
<b>Travel &amp; Training:</b> Out of Town and In City Training	\$ <250>
<b>Utilities Cost:</b> Increase in Electrical Power	\$ 39,024
<b>Professional and Technical Services:</b> Public Relations and Other Professional and Technical Services	\$ <185,587>
<b>Data Processing:</b> City Data Processing Service, Computer Equipment Maintenance	\$ 4,700
<b>Payment in Lieu of Taxes</b>	\$ 16,157
<b>Billing Costs</b>	\$ 149,137
<b>Other Charges and Services</b>	\$ 2,649
<b>Total Increase</b>	<hr/> \$ 364,772



## Street Lights Operating Budget Differences from Prior Year to FY 2018-19

<b>Salaries:</b> Cola, Insurance, Step Upgrades, FTE decrease of 0.92	\$ <61,117>
<b>Travel and Training:</b> Out of Town Travel and in City Training	\$ 300
<b>Utilities</b>	\$ <7,768>
<b>Professional and Technical Services:</b> Special Consultant, Other Professional & Technical Services	\$ 279,708
<b>Other Charges and Service</b>	\$ 500
<b>Total Increase</b>	<hr/> \$ 211,623



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

DESCRIPTION OF SERVICES	June 30, 2017 ACTUALS WATER	June 30, 2017 ACTUALS SEWER	June 30, 2017 ACTUALS STORM	June 30, 2017 ACTUALS STREET LIGHT	ACTUAL Public Utilities June 30, 2017 TOTALS	FY 2017/2018 BUDGET	FY PROPOSED 2018/2019 BUDGET
<b>Administrative Service Fees (General Fund)</b>							
Human Resources	\$ 160,182	\$ 118,690	\$ 51,791	\$ 409	\$ 331,072	\$ 350,660	\$ 358,450
City Attorney	124,489	15,530	5,916	8,628	154,563	158,640	167,350
Accounting/Finance	139,249	91,842	17,434	2,960	251,485	178,450	272,280
Purchasing & Contracts	61,631	22,066	2,357	2,732	88,786	124,300	96,130
City Recorders	52,625	15,485	10,718	839	79,667	108,030	86,260
Property Management	4,635	2,089	425	31	7,180	5,500	7,770
Budget and Policy	27,001	11,580	3,502	203	42,286	26,450	45,780
Non-discretionary IMS Costs	102,440	52,288	27,325	338	182,391	194,700	197,480
Treasurer's Office (cash mgt.)	9,725	1,749	1,354	75	12,903	17,500	13,970
City Council	25,597	12,798	4,541	4,129	47,065	91,420	50,960
Mayor	631	1,262	631	315	2,839	15,430	3,070
Community Affairs	472	264	94	94	924	3,920	1,000
<b>Total Admin Fees</b>	\$ 708,677	\$ 345,643	\$ 126,088	\$ 20,753	\$ 1,201,161	\$ 1,275,000	\$ 1,300,500
<b>Tax of Fee Authorized</b>							-
Payment in Lieu-of-Taxes (General Fund)	\$ 475,281	\$ 345,994	\$ 160,102	\$ -	\$ 981,377	\$ 814,795	970,192
Franchise Fees (General Fund)	2,648,700	884,634	368,353	-	3,901,687	5,029,151	5,507,794
<b>Sub Total</b>	\$ 3,123,981	\$ 1,230,628	\$ 528,455	\$ -	\$ 4,883,064	\$ 5,843,946	\$ 6,477,986
<b>Internal Service Fund Services</b>							
Fleet Mgt. Services	\$ 983,193	\$ 467,758	\$ 182,975	\$ -	\$ 1,633,927	\$ 2,002,000	\$ 2,007,000
City Data Processing (IMS)	583,476	249,464	212,506	-	1,045,445	915,000	1,154,700
Telephone Charges	61,476	40,068	8,226	-	109,770	92,400	92,400
Risk Mgt. Administrative Fees (Gov. Immunity)	116,735	16,366	2,478	-	135,579	241,550	206,550
Risk Management Premiums & Charges	773,106	242,268	68	7,551	1,022,993	1,466,178	1,277,483
<b>Sub Total</b>	\$ 2,517,986	\$ 1,015,924	\$ 406,254	\$ 7,551	\$ 3,947,714	\$ 4,717,128	4,738,133
<b>Special Associated Charges (indirect benefit)</b>							
OneSolution Maintenance (network financial system)	\$ 82,822	\$ 17,540	\$ 2,769	\$ -	\$ 103,131	\$ 109,000	109,000
Street Sweeping	-	-	819,605	-	819,605	819,605	819,605
Neighborhood Clean-up	-	-	-	-	-	118,000	118,000
Emergency Management	-	-	-	-	-	30,000	30,000
Tracy Aviary Stormwater Education Cost	-	-	150,000	-	150,000	150,000	75,000
<b>Sub Total</b>	\$ 82,822	\$ 17,540	\$ 972,374	\$ -	\$ 1,072,736	\$ 1,226,605	\$ 1,151,605
<b>TOTAL FEES, TAXES AND CHARGES</b>	<b>\$ 6,433,466</b>	<b>\$ 2,609,735</b>	<b>\$ 2,033,171</b>	<b>\$ 28,304</b>	<b>\$ 11,104,675</b>	<b>\$ 13,062,679</b>	<b>\$ 13,668,224</b>



## WATER RATES COMPARED WITH NEARBY STATES

RANKING	<b>Comparison of Recognizable Cities in Western States</b> City, State	<b>AVERAGE MONTHLY CHARGES</b>
1	FLAGSTAFF, ARIZONA	\$116.77
2	CHEYENNE, WYOMING	66.66
3	DENVER, COLORADO	55.79
4	RENO, NEVADA	49.64
5	PHOENIX, ARIZONA	48.27
6	BOISE, IDAHO	44.38
7	LAS VEGAS, NEVADA	41.44
8	SALT LAKE CITY, UTAH (Proposed) 4%	37.44
8	SALT LAKE CITY, UTAH (Current)	36.02
9	HENDERSEN, NEVADA	26.06

Cities compared with 7,480 gallons per month and 24,000 gallons summer usage  
 Based on eight months Winter and four months Summer usage



# Public Utilities Department

## Local Area Water Rate Comparison - November 2017

(Highest to Lowest Ranking)

RANKING	CITY OR DISTRICT NAME	MONTHLY MINIMUM CHARGE	MINIMUM ALLOWANCE IN GALLONS	RATE OVER MINIMUM ALLOWANCE	PER GALLONS	MONTHLY FLUORIDE 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)	47.65	0	5.94 - 10.01	1,000		100.96	262.00	807.68	1048.00		1855.67
2	AMERICAN FORK - GRADUATED RATES (2)	28.18	6,000	3.49 - 4.96	1,000		33.35	112.73	266.76	450.93		717.69
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)	34.88	0	1.64 - 1.84	1,000		47.15	76.92	377.18	307.69		684.87
5	RIVERTON CITY	2.50	0	3.91	1,000		31.75	96.09	253.97	384.36		638.33
	SALT LAKE CITY - OUTSIDE OF CITY (Proposed)	13.35	0	1.82 - 3.47	7.48		31.55	88.49	252.40	353.96		606.36
6	KEARNS IMPROVEMENT DIST-GRADUATED RATES (5)	11.60	0	2.33 - 2.92	1,000		29.03	75.59	232.23	302.37	56.41	591.01
7	OGDEN CITY - GRADUATED RATES (6)	20.27	0	1.74 - 2.66	1,000		34.65	78.42	277.17	313.68		590.85
8	SALT LAKE CITY - OUTSIDE OF CITY	12.84	0	1.75 - 3.34	748		30.34	85.02	242.72	340.08		582.80
9	WEST JORDAN CITY (7)	26.58	0	1.50 - 1.98	1,000		37.91	67.36	303.28	269.45		572.74
10	SANDY CITY - OUTSIDE OF CITY (8)	19.00	0	1.71 - 2.62	1,000		33.14	76.25	265.10	305.01		570.11
11	MAGNA - GRADUATED RATES (9)	16.74	6,000	1.73 - 1.95	1,000	0.94	20.24	50.02	161.92	200.06	196.31	558.29
12	SANDY CITY - INSIDE OF CITY (10) & (11)	13.74	0	1.56 - 2.41	1,000		26.67	66.33	213.33	265.30	38.17	516.81
13	PLEASANT GROVE - GRADUATED RATES (12)	20.81	5,000	2.52 - 2.95	1,000		27.06	73.47	216.48	293.88		510.36
	SALT LAKE CITY - INSIDE OF CITY (Proposed)	9.89	0	1.35 - 2.57	7.48		23.39	65.53	187.12	262.12	35.75	484.99
14	BOUNTIFUL CITY - RESIDENTIAL HIGH ELEVATION	23.57	5,000	1.98	1,000		28.48	61.06	227.84	244.25		472.10
15	SALT LAKE CITY - INSIDE OF CITY (10)	9.51	0	1.30 - 2.47	748		22.51	63.05	180.08	252.20	35.75	468.03
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	13.00	0	1.57	1,000		24.74	50.58	197.95	202.32	30.91	431.18
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	5.00	0	1.87	1,000		18.99	49.76	151.90	199.04	7.48	358.42
22	OREM - GRADUATED RATES (13)	17.16	0	0.79 - 0.99	1,000		23.07	38.66	184.55	154.63		339.18
23	MURRAY CITY	7.21	0	0.89 - 1.28	748		16.11	48.17	128.88	192.68		321.56

\* BASED ON EIGHT MONTHS WINTER AND FOUR MONTHS SUMMER

(1) RATES ARE \$5.94/THOUSAND FOR 0-5,000 GALLONS, \$9.52/THOUSAND FOR 5,001-15,000 GAL, & \$10.01/THOUSAND FOR 15,001-25,000 GAL.

(2) RATES ARE \$28.18 FOR 0-6,000 GALLONS, \$3.49/THOUSAND FOR 6,001-9,000 GAL, & \$4.96/THOUSAND OVER 9,000 GAL.

(3) RATES ARE \$2.05/THOUSAND FOR 0-5,000 GALLONS, \$3.46/THOUSAND FOR 5,001-20,000 GAL, & \$3.71/THOUSAND FOR 20,001-50,000 GAL.

(4) RATES ARE \$1.64/THOUSAND FOR 0-10,000 GALLONS AND \$1.84/THOUSAND FOR 10,001-28,000 GAL.

(5) RATES ARE \$2.33/THOUSAND FOR 0-10,000 GALLONS & \$2.92/THOUSAND FOR 10,001-25,000 GALLONS

(6) RATES ARE \$1.74/THOUSAND FOR 0-6,000 GALLONS & \$2.66/THOUSAND FOR 6,001-42,000 GAL.

(7) RATES ARE \$1.50/THOUSAND FOR 0-7,000 GALLONS, \$1.73/THOUSAND FOR 7,001-20,000 GAL & \$1.98/THOUSAND FOR OVER 20,000 GAL.

(8) RATES ARE \$1.71/THOUSAND FOR 0-6,000 GALLONS & \$2.62/THOUSAND FOR 6,001-40,000 GAL.

(9) RATES ARE \$16.74 FOR 0-6,000 GALLONS, \$1.73/THOUSAND FOR 6,001-18,000 GALLONS, & \$1.95/THOUSAND FOR 18,001-35,000 GALLONS

(10) INCLUDES METROPOLITAN WATER PROPERTY TAX

(11) RATES ARE \$1.56/THOUSAND FOR 0-6,000 GALLONS & \$2.41/THOUSAND FOR 6,001-40,000 GAL.

(12) RATES ARE \$20.81 FOR 0-5,000 GALLONS, \$2.52/THOUSAND FOR 5,001-10,000 GALLONS, \$2.74/THOUSAND FOR 10,001-15,000 GALLONS, & \$2.95/THOUSAND FOR 15,001-50,000 GALLONS

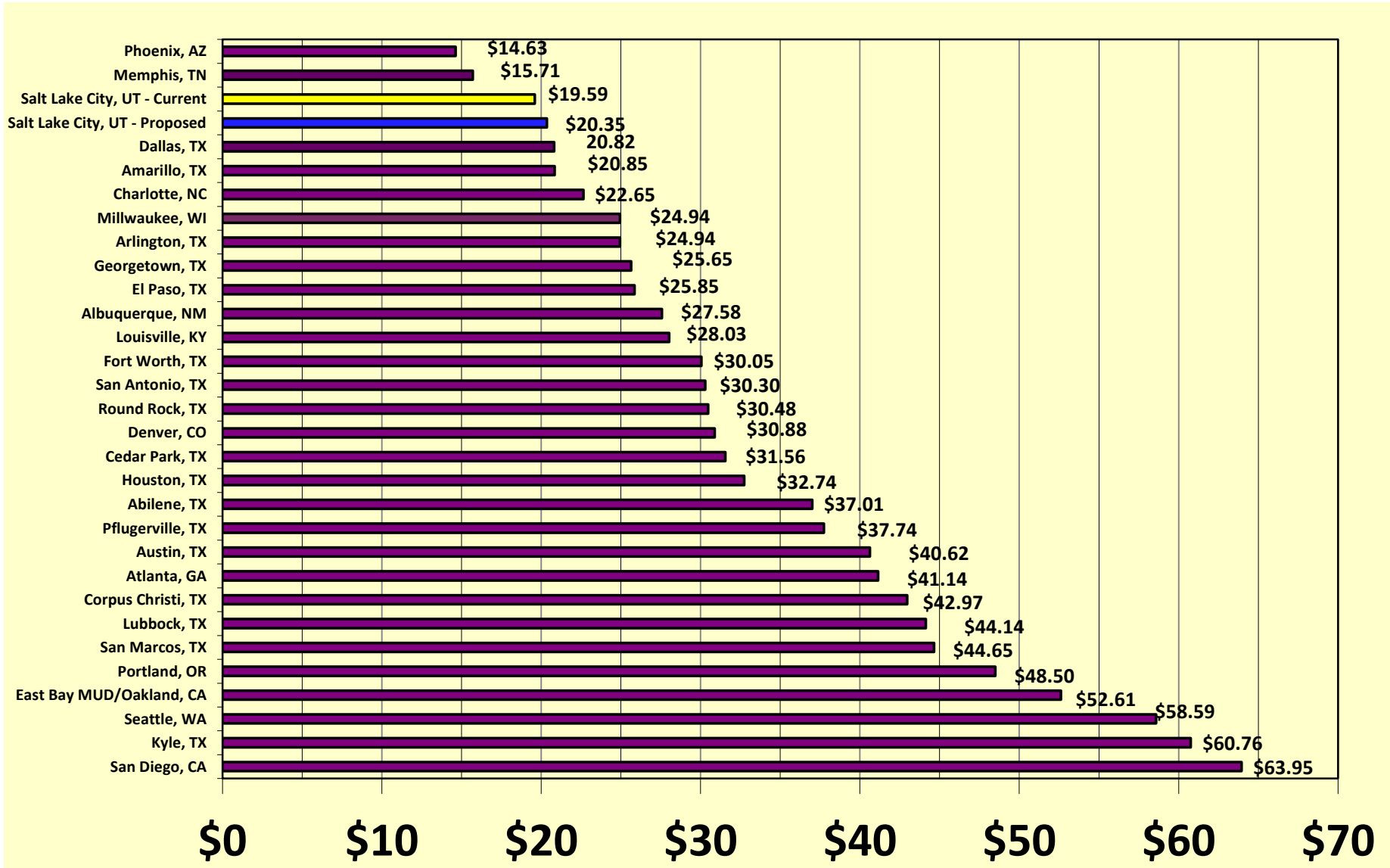
(13) RATES ARE \$0.79/THOUSAND FOR 0-11,000 GALLONS & \$0.99/THOUSAND FOR 11,001-34,000 GAL.



# AVERAGE MONTHLY BILL COMPARISON-WATER

## RESIDENTIAL CLASS

SLC Rates Current – Other City as of March 2018 (Average of 5,800 gallons a month)





# Comparison of Water Rates for City Residential Customers

Block	Current Rates	Proposed Rates	Changes
Winter Period (Nov - Mar)	Block 1 Rate for All Usage		
(Nov - Mar)			
Summer Rate Structure ( Apr - Oct)			
Block 1 1 - 10 ccf	\$1.30	\$1.35	\$0.05
			4%
Block 2 11 - 30 ccf	\$1.78	\$1.85	\$0.07
			4%
Block 3 31 - 70 ccf	\$2.47	\$2.57	\$0.10
			4%
Block 4 >70 ccf	\$2.63	\$2.74	\$0.11
			4%
County volume rates are 1.35 times City rates.			



# Comparison of Water Rates for County Residential Customers

Block	Current Rates	Proposed Rates	Changes
Winter Period (Nov - Mar)	Block 1 Rate for All Usage		
(Nov - Mar)			
Summer Rate Structure ( Apr - Oct)			
Block 1 1 - 10 ccf	\$1.75	\$1.82	\$0.07
			4%
Block 2 11 - 30 ccf	\$2.40	\$2.50	\$0.10
			4%
Block 3 31 - 70 ccf	\$3.34	\$3.47	\$0.13
			4%
Block 4 >70 ccf	\$3.55	\$3.70	\$0.15
			4%
County volume rates are 1.35 times City rates.			



# Water Rate Change

## Monthly Impact on Select City Customers

Account Type	Avg Monthly Usage	FY 18 Current Rate	Current Increase 4%	Difference	
				Amount	%
Small Residential Meter SZ 3/4"	8 ccf	\$ 19.91	\$ 20.71	\$ 0.80	4%
Average Residential Meter SZ 3/4"	21 ccf	\$ 44.83	\$ 46.62	\$ 1.79	4%
Large Residential Meter SZ 1"	70 ccf	\$ 157.47	\$ 163.77	\$ 6.30	4%
Industrial Meter SZ 2"	8,040 ccf	\$ 11,379	\$ 11,834	\$ 455.16	4%
Commercial Meter SZ 2"	966 ccf	\$ 1,313	\$ 1,366	\$ 52.52	4%



# Water Rate Change

## Annual Impact on Select City Customers

Account Type	Annual Usage	FY 18 Current Rate	Current Increase 4%	Difference	
				Amount	%
Small Residential Meter SZ 3/4"	96 ccf	\$ 238.92	\$ 248.48	\$ 9.56	4%
Average Residential Meter SZ 3/4"	255 ccf	\$ 537.96	\$ 559.48	\$ 21.52	4%
Large Residential Meter SZ 1"	838 ccf	\$1,889.64	\$1,965.23	\$ 75.59	4%
Industrial Meter SZ 2"	96,476 ccf	\$ 136,546	\$ 142,008	\$5,461.84	4%
Commercial Meter SZ 2"	11,597 ccf	\$ 15,758	\$ 16,388	\$ 630.32	4%



# Water Rate Change

## Monthly Impact on Select County Customers

Account Type	Avg Monthly Usage	FY 18 Current Rate	Current Increase 4%	Difference	
				Amount	%
Small Residential Meter SZ 3/4"	8 ccf	\$ 26.54	\$ 27.60	\$ 1.06	4%
Average Residential Meter SZ 3/4"	21 ccf	\$ 60.13	\$ 62.54	\$ 2.41	4%
Large Residential Meter SZ 1"	70 ccf	\$ 212.02	\$ 220.50	\$ 8.48	4%
Industrial Meter SZ 2"	8,040 ccf	\$ 15,484	\$ 16,103	\$ 619.36	4%
Commercial Meter SZ 2"	966 ccf	\$ 1,768	\$ 1,839	\$ 70.72	4%



# Water Rate Change

## Annual Impact on Select County Customers

Account Type	Annual Usage	FY 18 Current Rate	Current Increase 4%	Difference	
				Amount	%
Small Residential Meter SZ 3/4"	96 ccf	\$ 318.48	\$ 331.22	\$ 12.74	4%
Average Residential Meter SZ 3/4"	255 ccf	\$ 721.56	\$ 750.42	\$ 28.86	4%
Large Residential Meter SZ 1"	838 ccf	\$2,544.24	\$2,646.01	\$ 101.77	4%
Industrial Meter SZ 2"	96,476 ccf	\$ 185,808	\$ 193,240	\$7,432.32	4%
Commercial Meter SZ 2"	11,597 ccf	\$ 21,216	\$ 22,065	\$ 848.64	4%



# Comparison of Monthly Base Rate for City Customers

Meter Size (inches)	Existing	Proposed Rate	Changes	
			\$	%
3/4	9.51	9.89	0.38	4%
1	9.51	9.89	0.38	4%
"1 1/2"	11.23	11.68	0.45	4%
2	12.19	12.68	0.49	4%
3	20.46	21.28	0.82	4%
4	21.9	22.78	0.88	4%
6	31.62	32.88	1.26	4%
8	56.84	59.11	2.27	4%
10	105.41	109.63	4.22	4%
<i>County fixed charges are 1.35 times City fixed charges</i>				



# Comparison of Monthly Base Rate for County Customers

Meter Size (inches)	Existing	Proposed Rate	Changes	
			\$	%
3/4	12.84	13.35	0.51	4%
1	12.84	13.35	0.51	4%
"1 1/2"	15.16	15.77	0.61	4%
2	16.46	17.11	0.66	4%
3	27.62	28.73	1.10	4%
4	29.57	30.75	1.18	4%
6	42.69	44.39	1.71	4%
8	76.73	79.80	3.07	4%
10	142.30	148.00	5.69	4%
<i>County fixed charges are 1.35 times City fixed charges</i>				



## SEWER RATES COMPARED WITH NEARBY STATES

RANKING	Comparison of Recognizable Cities in Western States City, State	AVERAGE MONTHLY CHARGES
1	RENO, NEVADA	\$45.50
2	BOISE, IDAHO **	39.70
3	CHEYENNE, WYOMING **	33.32
4	FLAGSTAFF, ARIZONA	27.95
5	DENVER, COLORADO	25.78
6	HENDERSON, NEVADA	25.97
7	SALT LAKE CITY, UTAH (Proposed) 15%	24.38
8	SALT LAKE CITY, UTAH (Current)	21.18
9	PHOENIX, ARIZONA	20.81
10	LAS VEGAS, NEVADA	19.76

Annual costs based on 12 months @ 5,984 gallons per month average winter water consumption

\*\* includes Monthly base rate



## LOCAL SEWER RATE COMPARISONS

		ANNUAL
RANKING	CITY OR DISTRICT NAME	CHARGE *
1	KEARNS IMPROVEMENT DISTRICT **	\$426.68
2	MAGNA CITY	362.09
3	CITY OF SOUTH SALT LAKE	359.04
4	OGDEN CITY	353.64
5	SOUTH VALLEY SEWER DISTRICT	334.76
6	GRANGER – HUNTER IMPROVEMENT DISTRICT	324.91
7	WEST JORDAN CITY **	323.09
8	MURRAY CITY **	308.30
9	MIDVALLEY IMPROVEMENT DISTRICT	303.43
	<b>SALT LAKE CITY (Proposed)</b>	<b>292.56</b>
10	SANDY SUBURBAN IMPROVEMENT DISTRICT	263.86
11	TAYLORSVILLE – BENNION IMPROVEMENT DISTRICT **	261.76
12	COTTONWOOD IMPROVEMENT DISTRICT	260.79
13	<b>SALT LAKE CITY (Current)</b>	<b>254.40</b>
14	MT OLYMPUS IMPROVEMENT DISTRICT	212.67
15	SOUTH DAVIS SEWER DISTRICT	89.04

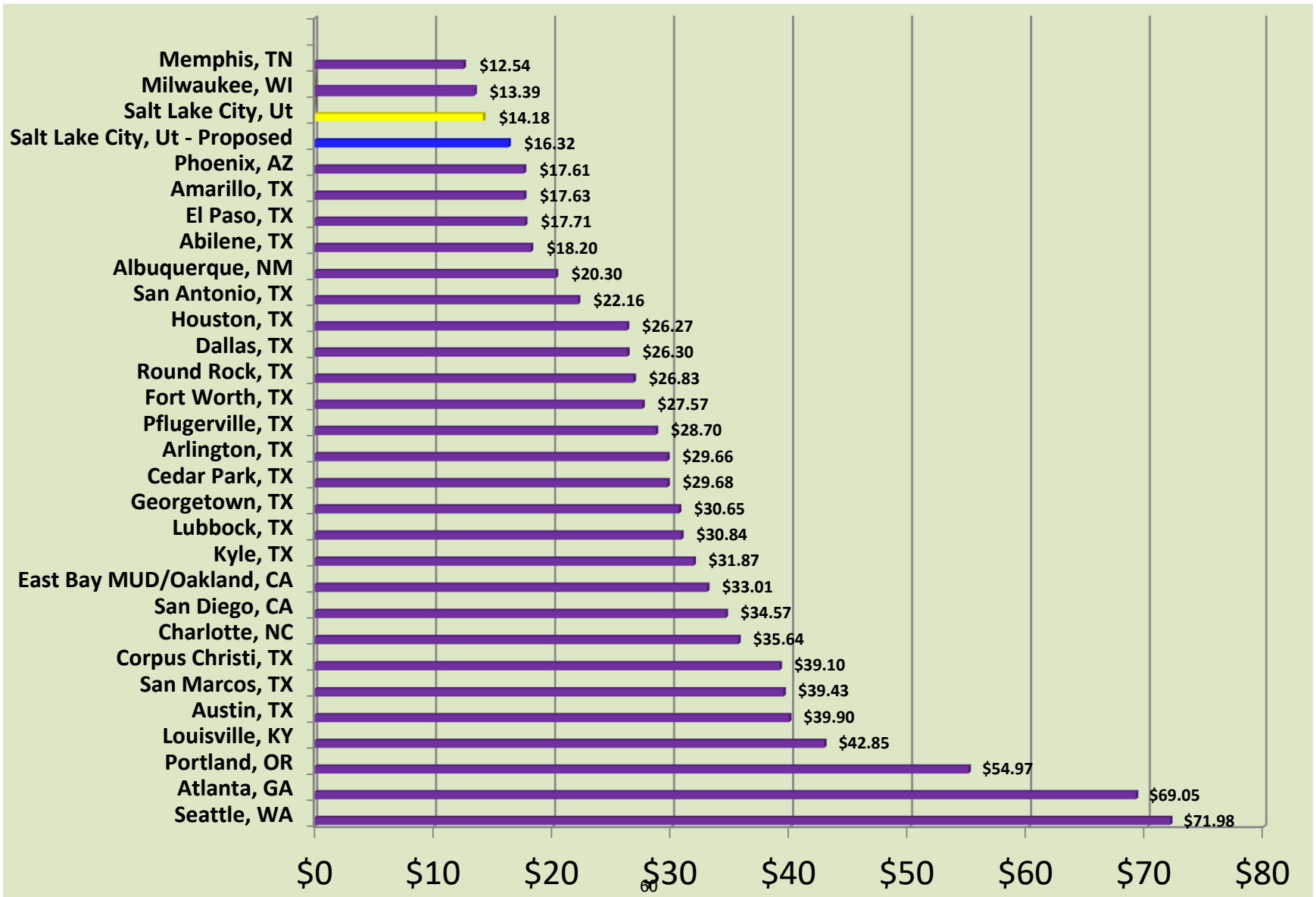
\* Annual cost based on 12 months @5,984 gallons per month average winter consumption. Flat rate based on monthly rate multiplied by 12.

\*\* Includes monthly base rate`



## Average Monthly Bill Comparison – Wastewater Residential

SLC Rates Current – Other City as of March 2018 (Average of 4,000 Gallons of Flow)





# Five-Year Projection of Customer Monthly Sewer Rates

RATES							
Proposed Budget and Forecast		Proposed Budget 2018/19	Projected 2019/20	Projected 2020/21	Projected 2021/22	Projected 2022/23	5 Year Impact
Customer Class	Current	15%	15%	10%	8%	10%	
Small Residential	\$ 10.60	12.19	14.02	15.42	16.65	18.32	73%
Average Residential	\$ 21.20	24.38	28.04	30.84	33.31	36.64	73%
Large Residential	\$ 39.75	45.71	52.57	57.83	62.45	68.70	73%
Industrial 2,4	\$ 8,821	10,145	11,666	12,833	13,859	15,245	73%
Commercial 2,1	\$ 105	120.43	138.49	152.34	164.53	180.98	73%
*Industrial & Commercial charges are calculated based on flow rate, BOD and TSS.							



# Sewer Rate Increase

## Monthly Impact on Selected Customers

Account Type	Annualized Average Winter Water Usage (CCF)	Current Rates	Proposed Rates	Changes %
Small Residential	4 ccf	\$ 10.60	\$ 12.19	\$1.59 15%
Average Residential	8 ccf	\$ 21.20	\$ 24.38	\$3.18 15%
Large Residential	15 ccf	\$ 39.75	\$ 45.71	\$5.96 15%
Industrial 2,4	2014 ccf	\$ 8,821	\$ 10,145	\$1,323 15%
Commercial 2,1	34 ccf	\$ 104.72	\$ 120.43	\$15.71 15%
<i>*Industrial &amp; Commercial charges are calculated based on flow rate, BOD and TSS</i>				



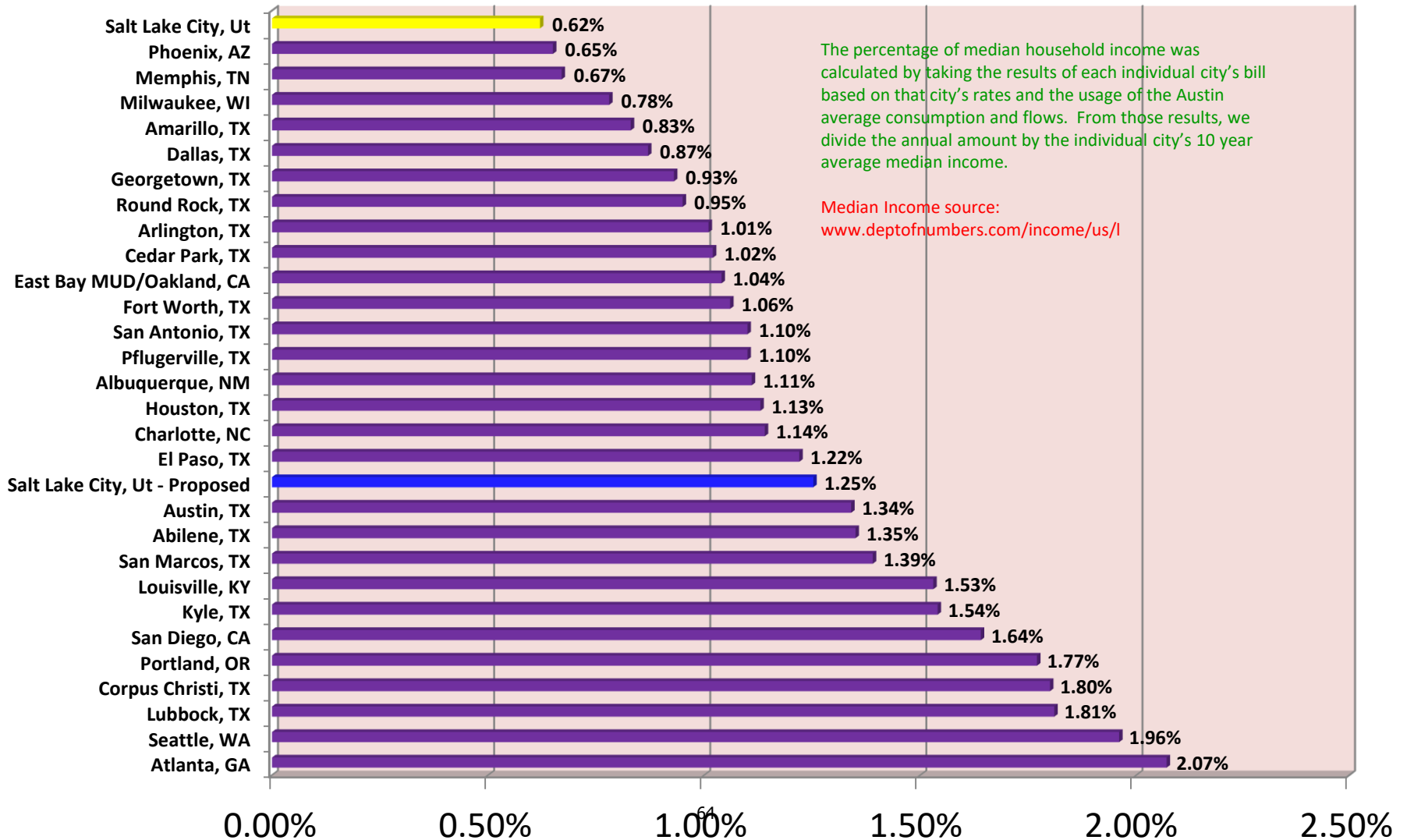
## Sewer Rate Increase Annual Impact on Selected Customers

Account Type	Annualized Average Winter Water Usage (CCF)	Current Rates	Proposed Rates	Changes %
Small Residential	4 ccf	\$ 127.20	\$ 146.28	\$19.08 15%
Average Residential	8 ccf	\$ 254.40	\$ 292.56	\$38.16 15%
Large Residential	15 ccf	\$ 477.00	\$ 548.52	\$71.52 15%
Industrial 2,4	2014 ccf	\$105,856	\$ 121,740	\$15,884 15%
Commercial 2,1	34 ccf	\$ 1,257	\$ 1,445	\$188.52 15%
<i>*Industrial &amp; Commercial charges are calculated based on flow rate, BOD and TSS.</i>				



# Residential Water & Wastewater Bill Percent of Median Household Income

(Austin Average Consumption & Flows)





## STORMWATER RATES COMPARED WITH LOCAL CITIES

<b>RANKING</b>	<b><i>Comparison of Local Utah Cities</i></b>	<b>AVERAGE MONTHLY CHARGES</b>
<b>1</b>	<b>OGDEN</b>	<b>7.38</b>
<b>2</b>	<b>FARMINGTON</b>	<b>7.00</b>
<b>3</b>	<b>SANDY</b>	<b>6.00</b>
<b>4</b>	<b>LOGAN</b>	<b>5.50</b>
<b>5</b>	<b>SALT LAKE CITY, UTAH (Proposed) 10%</b>	<b>4.94</b>
<b>6</b>	<b>OREM</b>	<b>4.75</b>
<b>7</b>	<b>PROVO</b>	<b>4.63</b>
<b>8</b>	<b>LAYTON</b>	<b>4.60</b>
<b>8</b>	<b>SALT LAKE CITY, UTAH (Current)</b>	<b>4.49</b>
<b>9</b>	<b>MURRAY</b>	<b>4.05</b>
<b>10</b>	<b>WEST JORDAN</b>	<b>4.02</b>
<b>11</b>	<b>DRAPER CITY</b>	<b>4.00</b>
<b>12</b>	<b>TAYLORSVILLE</b>	<b>4.00</b>
<b>13</b>	<b>WEST VALLEY CITY</b>	<b>4.00</b>



# Stormwater Rate Increase

## Monthly Impact on Select Customers

Account Type	ERUs	Current Rates	Proposed Rates	Changes %
Average Residential	1 ERU	\$ 4.49	\$ 4.94	\$ 0.45 10%
Large Residential	2 ERU	\$ 8.98	\$ 9.88	\$ 0.90 10%
Industrial *	25 ERU	\$ 71.84	\$ 79.02	\$ 7.18 10%
Commercial	10 ERU	\$ 44.90	\$ 49.39	\$ 4.49 10%

\* Industrial impact includes a 64% discount for detainage



# Stormwater Rate Increase

## Annual Impact on Select Customers

Account Type	ERUs	Current Rates	Proposed Rates	Changes %
Average Residential	1 ERU	\$ 53.88	\$ 59.28	\$ 5.40 10%
Large Residential	2 ERU	\$ 107.76	\$ 118.56	\$ 10.80 10%
Industrial *	25 ERU	\$ 862.08	\$ 948.24	\$ 86.16 10%
Commercial	10 ERU	\$ 538.80	\$ 592.68	\$ 53.88 10%

\* Industrial impact includes a 64% discount for detainage





Public  
Utilities

## New Water Reclamation Facility Biological Nutrient Removal (BNR) or BIO P

### New WRF Facility:

- Regulatory
  - Nutrient Rule: (Phosphorous) by 2025
  - Future: Nitrogen, Ammonia
  - Future emerging contaminants, metal
- Odor Control
- New plant by 2023 @ 56 mgd (expandable to 82 mgd)
  - Operational, Condition, Seismic, at cost of \$390 to \$429 million estimated
- Energy & Greenhouse gas
  - Efficiency, Clean/Renewable by 2032
- Sustainable Design & Resource Recovery
- Public Engagement, Site Access



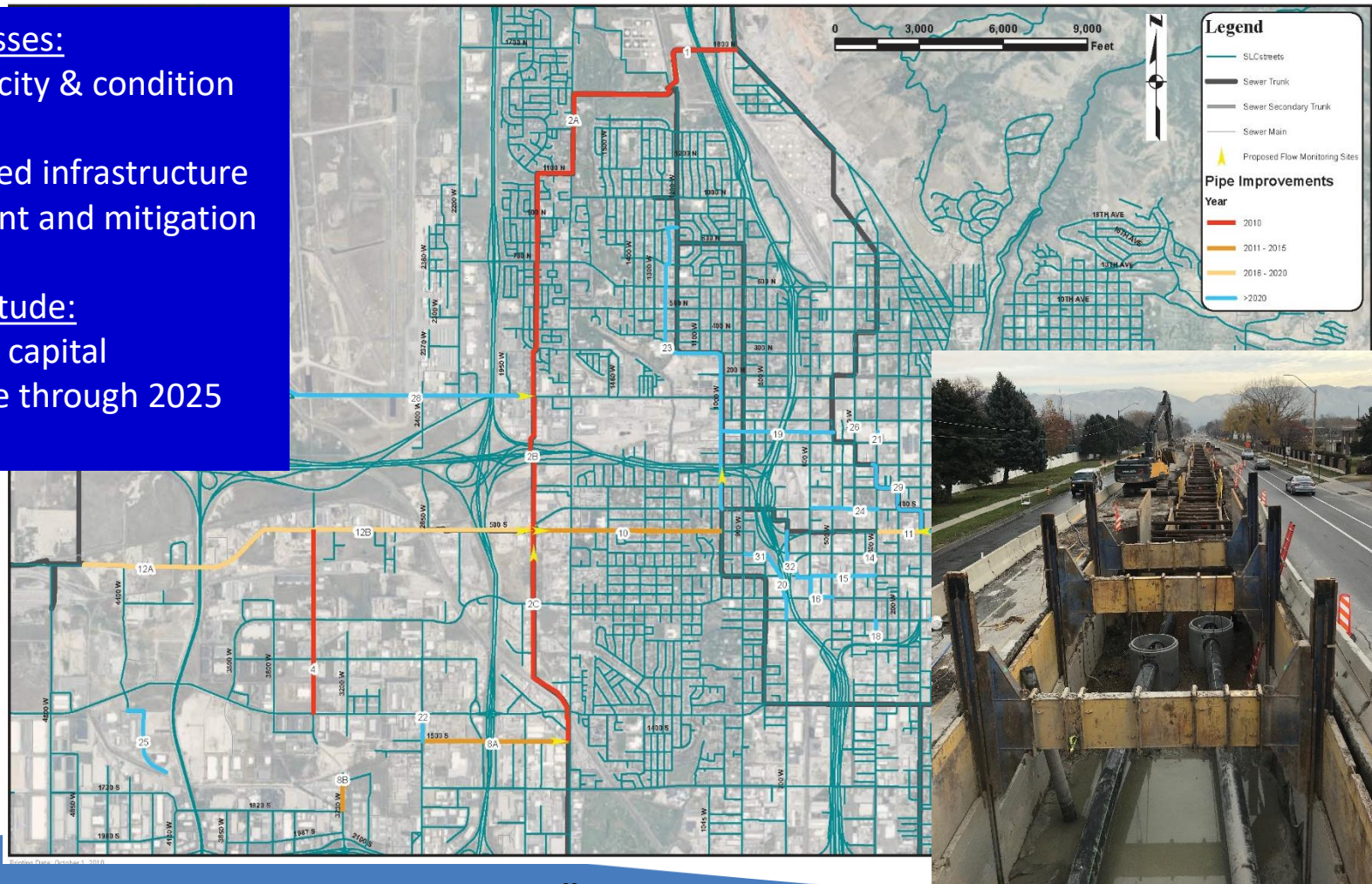




# Sewer Collection Master Plan Implementation

- Existing capacity & condition issues
- Growth related infrastructure
- I&I assessment and mitigation

- +/- \$150M in capital infrastructure through 2025



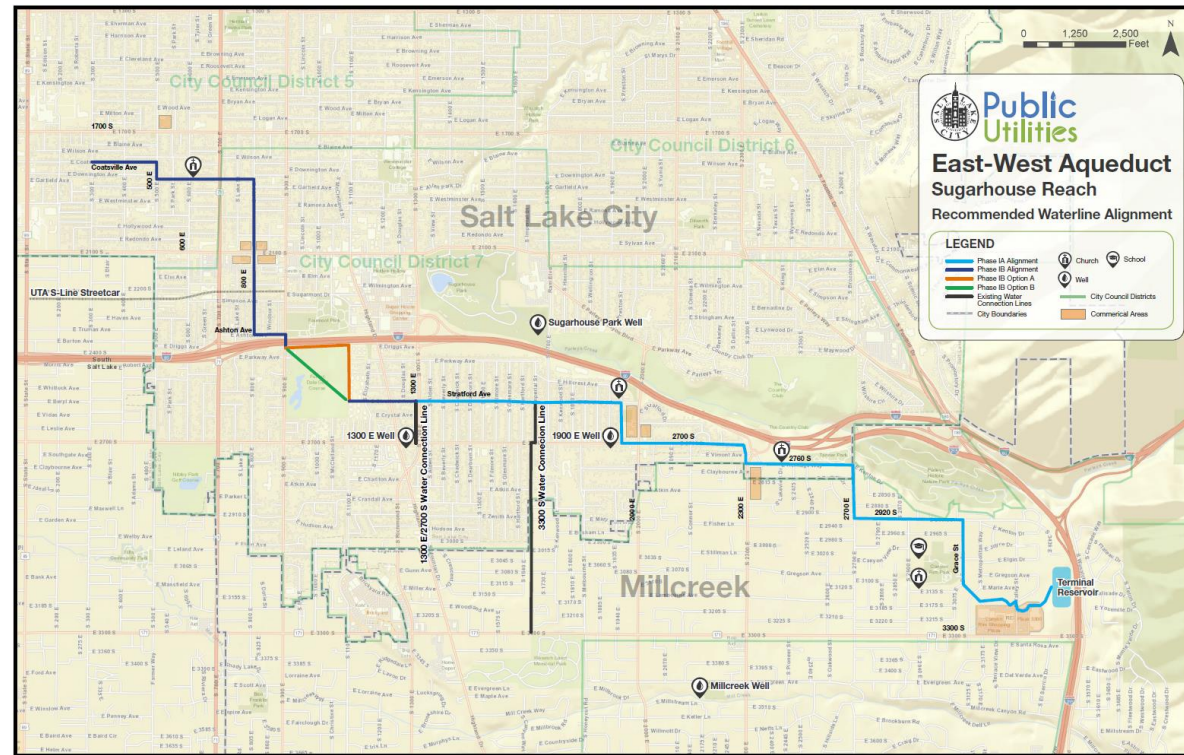




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# Water Fund

- East West Aqueduct Phase I (\$5.5 million)
- 13<sup>th</sup> East & 9<sup>th</sup> South Water Line (CAN) (\$1.0 million)
- Big Cottonwood SCADA (\$2.5 million)
- Water Main Replacements (\$16 million, next five years)
- Mountain Dell Rehabilitation (\$2.1 Million)

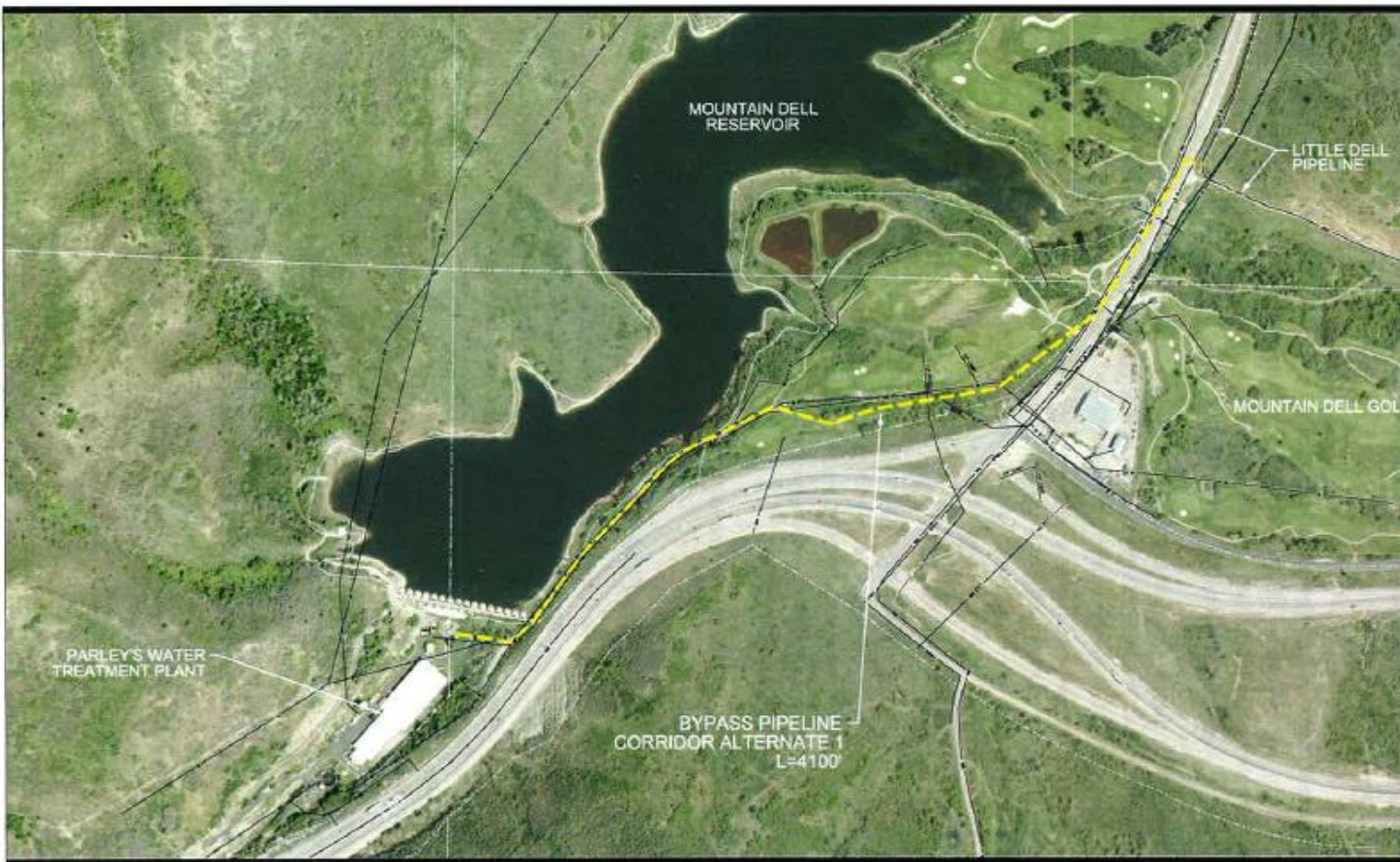






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# Water — Parley's Bypass



## Project Benefits

Resiliency  
Flexibility  
Water Management  
Sustainability

Potential Renewable  
Energy

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





Public  
Utilities

# Stormwater Fund



New Master Plan  
\$700,000 for FY2019

Riparian Corridor  
\$500,000 in Projects  
for FY 2019

Water Quality/ Flood  
Mitigation  
1300 East Drain  
Gladiola Ave Phase 1  
1700 South to Emigration  
Canyon (Flood Mitigation)  
Swede Town Lift Station  
10<sup>th</sup> North Lift Station





## Public Utilities Proposed Consulting Studies for FY2018-19

### Object Code 2324

Proposed Consulting Studies	Cost Center	Water	Sewer	Stormwater	Lighting	Total	Administrator
Street Lighting Master Plant Update	48-48000				90,000	90,000	Jesse Stewart
Well Siting Study	51-00200	20,000				20,000	Jesse Stewart
Central Wasatch	51-00200	200,000				200,000	Jesse Stewart
CII Phase IV - Reporting Tools and Data	51-03600	40,000				40,000	Jesse Stewart
Customer Survey Data Sharing (USU)	51-03600	30,000				30,000	Jesse Stewart
Water Conservation Master Plan Update	51-03600	75,000				75,000	Jesse Stewart
Watershed Plan - Extra Funds	51-00600	50,000				50,000	Marian Rice
Miscellaneous Needs	51-00600	15,000				15,000	Marian Rice
Process Controls for Treatment Plants	51-01800	35,000				35,000	Marian Rice
Regulatory/Compliance Specialty Services	51-01800	25,000				25,000	Marian Rice
Source Water Protection Plan Update	51-01800	40,000				40,000	Marian Rice
TMDL Expert	53-10700			25,000		25,000	Marian Rice
RSI Workshop	53-10700			2,000		2,000	Marian Rice
Consultant for Audit	53-10700			50,000		50,000	Marian Rice
CH/Jacobs Project Delivery	51-01300	202,000				202,000	Jason Brown
Water System Master Plan	51-01300	500,000				500,000	Jason Brown
Storage Reservoirs Asset Management	51-01300	250,000				250,000	Jason Brown
Red Butte Dam Capacity Study	51-01300	50,000				50,000	Jason Brown
Gladiola Waterline Inspection	51-01300	200,000				200,000	Jason Brown
CH2 Task 1 Program Management	52-10400		230,000			230,000	Jason Brown
CH2 Task 5 WRF Treatment Training	52-10400		100,000			100,000	Jason Brown
Stormwater Master Plan	53-10300			700,000		700,000	Jason Brown
CH/Jacobs Program Management	53-10300			170,000		170,000	Jason Brown
CH/Jacobs Task 3	53-10300			50,000		50,000	Jason Brown
<b>Total:</b>		<b>1,732,000</b>	<b>330,000</b>	<b>997,000</b>	<b>90,000</b>	<b>3,149,000</b>	



**PUBLIC UTILITIES  
WATER, SEWER, STORMWATER, AND STREET LIGHTING ENTERPRISE FUNDS  
COMBINED BUDGET SUMMARY  
2019-2021 BUDGET**

Combined Annual Rate Increase				7.5%	7.4%	5.8%
<b>SOURCES</b>	ACTUAL 2016-2017	AMENDED BUDGET 2017-2018	PROJECTED ACTUAL 2017-2018	PROPOSED BUDGET 2018-2019	FORECAST BUDGET 2019-2020	FORECAST BUDGET 2020-2021
<b>REVENUES</b>						
METERED SALES	\$104,664,388	\$111,232,713	\$111,232,713	\$119,822,012	\$128,936,536	136,693,757
INTEREST INCOME	1,084,990	1,912,558	1,912,558	1,512,000	206,000	1,341,000
OTHER REVENUES	4,186,991	3,052,186	3,052,186	3,282,985	3,282,985	3,282,985
STREET LIGHTING FEES	4,216,132	4,152,371	4,152,371	4,170,000	4,170,000	4,170,000
TOTAL REVENUES	\$114,152,501	\$120,349,828	\$120,349,828	\$128,786,997	\$136,595,521	145,487,742
<b>OTHER SOURCES</b>						
GRANTS & OTHER RELATED REVENUES	\$10,255,753	\$3,741,000	\$3,741,000	\$3,875,000	\$3,741,000	2,441,000
IMPACT FEES	5,365,335	1,400,000	1,400,000	1,400,000	1,400,000	1,424,500
TRANSFERS FROM GENERAL FUND	0	20,000	20,000	20,000	20,000	20,000
BOND PROCEEDS	74,617,791	0	0	0	233,300,000	-
STATE LOAN (NWQ)	0	0	8,500,000	0	0	-
SHORT-TERM FINANCING	0	0	0	5,330,000	0	-
COUNTY FLOOD CONTROL	0	0	0	0	0	-
OTHER SOURCES	10,145	70,000	70,000	70,000	70,000	70,000
TOTAL OTHER SOURCES	\$90,249,024	\$5,231,000	\$13,731,000	\$10,695,000	\$238,531,000	3,955,500
<b>TOTAL SOURCES</b>	<b>\$204,401,525</b>	<b>\$125,580,828</b>	<b>\$134,080,828</b>	<b>\$139,481,997</b>	<b>\$375,126,521</b>	<b>149,443,242</b>
<b>EXPENSES &amp; OTHER USES</b>						
<b>EXPENDITURES</b>						
PERSONNEL SERVICES	\$30,252,639	\$33,102,659	\$33,102,659	\$35,516,006	\$36,226,328	36,950,855
OPERATING & MAINTENANCE	\$4,589,212	5,980,100	\$5,980,100	\$6,346,750	6,405,885	6,533,975
TRAVEL & TRAINING	\$106,952	212,048	\$212,048	249,058	254,041	259,118
UTILITIES	\$4,617,794	4,934,246	\$4,934,246	5,069,662	5,110,274	5,159,864
TECHNICAL SERVICES	\$5,883,738	12,717,000	\$12,717,000	11,697,441	10,572,631	10,465,204
DATA PROCESSING	\$1,315,068	1,214,999	\$1,214,999	1,487,047	1,516,789	1,547,123
PUBLIC SERVICES / STREET SWEEPING	\$819,605	819,605	\$819,605	819,605	835,997	852,717
FLEET MAINTENANCE	1,649,615	2,002,000	\$2,002,000	2,007,000	2,047,140	2,088,082
ADMINISTRATIVE SERVICE FEE	1,201,161	1,275,000	\$1,275,000	1,225,000	1,249,500	1,274,490
PAYMENT IN LIEU OF TAXES	981,377	814,795	\$814,795	970,192	989,596	1,009,387
RISK MANAGEMENT	1,158,573	1,707,728	\$1,707,728	1,484,033	1,513,714	1,543,985
TRANSFERS TO GENERAL FUND	103,131	109,000	\$109,000	109,000	111,180	113,404
BILLING COST	1,237,745	1,218,876	\$1,218,876	1,368,013	1,379,095	1,390,399
BONDING NOTE EXPENSE	422,054	5,000	\$5,000	-	-	-
METRO. WATER PURCH & TREAT	14,789,476	15,528,950	\$15,528,950	15,994,818	16,474,663	16,968,903
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	(1,039,795)	(131,802)	(\$131,802)	(181,232)	(187,567)	(191,324)
TOTAL EXPENDITURES	\$75,110,237	\$88,532,096	\$88,532,096	\$91,184,285	\$91,521,158	92,988,074
<b>OTHER USES</b>						
CAPITAL OUTLAY	\$3,130,580	\$7,553,781	\$6,990,591	\$11,076,468	\$5,584,000	4,678,000
CAPITAL IMPROVEMENT BUDGET	35,700,379	153,302,410	67,793,190	123,721,000	146,892,000	140,331,909
DEBT SERVICES	7,308,562	7,546,626	8,102,071	8,292,000	17,539,000	28,096,000
TOTAL OTHER USES	\$46,139,521		\$82,885,852	\$143,089,468	\$170,015,000	173,105,909
<b>TOTAL USES</b>	<b>\$121,249,758</b>	<b>\$256,934,913</b>	<b>\$171,417,948</b>	<b>\$234,273,753</b>	<b>\$261,536,158</b>	<b>266,093,983</b>
<b>EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES</b>						
	\$83,151,767	(\$131,354,085)	(\$37,337,120)	(\$94,791,756)	\$113,590,363	(116,650,741)
<b>OPERATING CASH BALANCES</b>						
BEGINNING JULY 1	\$69,495,960	\$152,647,727	\$152,647,727	\$115,310,607	\$20,518,851	134,109,214
ENDING JUNE 30	\$152,647,727	\$21,293,642	\$115,310,607	\$20,518,851	\$134,109,214	17,458,473
Cash Reserve Ratio	203%	24%	130%	23%	147%	19%
Cash reserve goal above 10%						



**PUBLIC UTILITIES**  
**Water, Sewer, Stormwater and Street Lighting Enterprise Funds**  
**Combined Cash Flow**  
**FY 2019 Budget and FY 2020-2023 Forecast**

	ACTUAL YEAR 2016-2017	PROJECTED YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-2023
WATER SALES	71,572,921	70,470,525	73,289,346	76,220,920	79,269,757	82,440,547	85,738,169
SEWER CHARGES	24,670,395	32,712,188	37,677,666	43,329,316	47,662,248	51,475,228	56,622,751
STORMWATER FEES	8,421,072	8,050,000	8,855,000	9,386,300	9,761,752	10,152,222	10,152,222
STREET LIGHTING FEES	4,216,132	4,152,371	4,170,000	4,170,000	4,170,000	4,170,000	4,170,000
TOTAL SERVICES FEES AND CHARGES	108,880,520	115,385,084	123,992,012	133,106,536	140,863,757	148,237,997	156,683,142
OTHER INCOME	4,197,136	3,072,186	3,352,985	3,352,985	3,352,985	3,352,985	3,352,985
INTEREST INCOME	1,084,990	1,912,558	1,512,000	206,000	1,341,000	175,000	1,392,000
OPERATING INCOME	114,162,646	120,369,828	128,856,997	136,665,521	145,557,742	151,765,982	161,428,127
OPERATING EXPENDITURES	(75,110,237)	(88,532,096)	(91,184,285)	(91,521,158)	(92,988,074)	(94,598,120)	(95,950,371)
NET INCOME EXCLUDING DEP.	39,052,409	31,837,732	37,672,712	45,144,363	52,569,668	57,167,862	65,477,756
NET BOND PROCEEDS	74,617,791	0	0	233,300,000	0	214,000,000	0
SHORT TERM FINANCING	0	0	5,330,000	0	0	0	0
STATE LOAN	0	8,500,000	0	0	0	0	0
IMPACT FEES	5,365,335	1,400,000	1,400,000	1,400,000	1,424,500	1,449,858	1,476,103
OTHER CONTRIBUTIONS	10,255,753	3,811,000	3,895,000	3,761,000	2,461,000	2,261,000	2,261,000
CAPITAL OUTLAY	(3,130,580)	(5,490,591)	(9,576,468)	(4,084,000)	(3,178,000)	(2,525,000)	(2,390,000)
WATERSHED PURCHASES	0	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)
STATE LOAN DEBT SERVICE	0	0	0	0	(6,375,000)	(2,125,000)	0
SHORT TERM FINANCING DEBT SERVICE	0	0	0	(5,623,000)	0	0	0
DEBT SERVICE	(7,308,562)	(7,162,944)	(8,292,000)	(8,297,000)	(10,869,000)	(10,857,000)	(10,094,000)
NEW DEBT SERVICE	0	(939,127)	0	(3,619,000)	(10,852,000)	(14,529,000)	(21,881,000)
OTHER INCOME & EXPENSE	79,799,737	(1,381,662)	(8,743,468)	215,338,000	(28,888,500)	186,174,858	(32,127,897)
AVAILABLE FOR CAPITAL	118,852,146	30,456,070	28,929,244	260,482,363	23,681,168	243,342,720	33,349,859
CAPITAL IMPROVEMENTS	(35,700,379)	(67,793,190)	(123,721,000)	(146,892,000)	(140,331,909)	(121,480,000)	(150,518,000)
BEGINING CASH BALANCE	69,495,960	152,647,727	115,310,607	20,518,851	134,109,214	17,458,473	139,321,193
CASH INCREASE/(DECREASE)	83,151,767	(37,337,120)	(94,791,756)	113,590,363	(116,650,741)	121,862,720	(117,168,141)
ENDING BALANCES	152,647,727	115,310,607	20,518,851	134,109,214	17,458,473	139,321,193	22,153,052
REVENUE CHANGE							
DEBT SERVICE COVERAGE	5.34	3.93	4.54	2.57	2.42	2.25	2.05
CASH RESERVE RATIO	203.2%		22.5%	146.5%	18.8%	147.3%	23.1%







**WATER UTILITY  
ENTERPRISE FUND  
BUDGET SUMMARY  
Fiscal Years 2019-21**

				Rate Increase 4%	Rate Increase 4%	Rate Increase 4%
<b>SOURCES</b>	ACTUAL 2016-17	AMENDED BUDGET 2017-18	PROJECTED ACTUAL 2017-18	<b>PROPOSED BUDGET 2018-19</b>	<b>FORECAST BUDGET 2019-20</b>	<b>FORECAST BUDGET 2020-21</b>
<b>REVENUES</b>						
METERED SALES	\$71,572,921	\$70,470,525	\$70,470,525	<b>\$73,289,346</b>	\$76,220,920	79,269,757
INTEREST INCOME	519,192	553,382	553,382	<b>375,000</b>	119,000	460,000
OTHER REVENUES	3,906,688	2,814,186	2,814,186	<b>3,037,985</b>	3,037,985	3,037,985
<b>TOTAL REVENUES</b>	<b>\$75,998,801</b>	<b>\$73,838,093</b>	<b>\$73,838,093</b>	<b>\$76,702,331</b>	<b>\$79,377,905</b>	<b>82,767,742</b>
<b>OTHER SOURCES</b>						
GRANTS & OTHER RELATED REVENUES	\$6,215,096	\$1,205,000	\$1,205,000	<b>\$1,205,000</b>	\$1,205,000	1,205,000
IMPACT FEES	2,916,854	500,000	500,000	<b>500,000</b>	500,000	500,000
OTHER SOURCES	(16,011)	50,000	50,000	<b>50,000</b>	50,000	50,000
BOND PROCEEDS	-	-	-	-	68,000,000	-
<b>TOTAL OTHER SOURCES</b>	<b>\$9,115,939</b>	<b>\$1,755,000</b>	<b>\$1,755,000</b>	<b>\$1,755,000</b>	<b>\$69,755,000</b>	<b>1,755,000</b>
<b>TOTAL SOURCES</b>	<b>\$85,114,740</b>	<b>\$75,593,093</b>	<b>\$75,593,093</b>	<b>\$78,457,331</b>	<b>\$149,132,905</b>	<b>84,522,742</b>
<b>EXPENSES &amp; OTHER USES</b>						
<b>EXPENDITURES</b>						
PERSONNEL SERVICES	\$19,764,621	\$20,585,385	\$20,585,385	<b>22,069,746</b>	\$22,511,142	\$22,961,365
OPERATING & MAINTENANCE	3,112,503	3,900,830	3,900,830	<b>4,218,280</b>	4,235,446	4,320,134
TRAVEL & TRAINING	49,951	125,148	125,148	<b>146,408</b>	149,338	152,322
UTILITIES	2,586,682	2,745,648	2,745,648	<b>2,854,647</b>	2,911,739	2,969,968
TECHNICAL SERVICES	2,913,339	6,549,680	6,549,680	<b>6,276,000</b>	5,542,386	5,383,232
DATA PROCESSING	816,162	774,999	774,999	<b>967,347</b>	986,695	1,006,427
FLEET MAINTENANCE	998,883	1,270,000	1,270,000	<b>1,250,000</b>	1,275,000	1,300,500
ADMINISTRATIVE SERVICE FEE	708,677	800,000	800,000	<b>800,000</b>	816,000	832,320
PAYMENT IN LIEU OF TAXES	475,281	398,485	398,485	<b>476,000</b>	485,520	495,230
METRO. WATER PURCH & TREAT	14,789,476	15,528,950	15,528,950	<b>15,994,818</b>	16,474,663	16,968,903
METRO ASSESSMENT (CAPITAL)	7,021,892	7,021,892	7,021,892	<b>7,021,892</b>	7,021,892	7,021,892
BONDING NOTE EXPENSE	47,558	5,000	5,000	-	-	-
RISK MANAGEMENT	889,841	1,138,550	1,138,550	<b>1,088,550</b>	1,110,321	1,132,526
TRANSFERS TO GENERAL FUND	82,822	85,000	85,000	<b>85,000</b>	86,700	88,434
OTHER CHARGES AND SERVICES	(1,114,878)	(332,494)	(332,494)	<b>(359,811)</b>	(369,303)	(376,689)
<b>TOTAL EXPENDITURES</b>	<b>\$53,142,810</b>	<b>\$60,597,073</b>	<b>\$60,597,073</b>	<b>\$62,888,877</b>	<b>\$63,237,539</b>	<b>64,256,564</b>
<b>OTHER USES</b>						
CAPITAL OUTLAY	\$1,633,858	\$5,630,091	\$6,488,901	<b>\$4,614,400</b>	\$3,350,000	\$3,300,000
CAPITAL IMPROVEMENT BUDGET	20,180,588	29,147,000	17,148,052	<b>35,572,500</b>	46,246,000	46,655,000
DEBT SERVICES	3,134,226	918,809	939,127	<b>1,117,000</b>	2,182,000	4,248,000
<b>TOTAL OTHER USES</b>	<b>\$24,948,672</b>	<b>\$35,695,900</b>	<b>\$24,576,080</b>	<b>\$41,303,900</b>	<b>\$51,778,000</b>	<b>54,203,000</b>
<b>TOTAL USES</b>	<b>\$78,091,482</b>	<b>\$96,292,973</b>	<b>\$85,173,153</b>	<b>\$104,192,777</b>	<b>\$115,015,539</b>	<b>118,459,564</b>
<b>EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES</b>	<b>\$7,023,258</b>	<b>(\$20,699,880)</b>	<b>(\$9,580,060)</b>	<b>(\$25,735,446)</b>	<b>\$34,117,366</b>	<b>(33,936,822)</b>
<b>OPERATING CASH BALANCES</b>						
BEGINNING JULY 1	\$40,024,797	\$47,048,055	\$47,048,055	<b>\$37,467,995</b>	\$11,732,549	45,849,915
	\$0	\$0	\$0		-	-
ENDING JUNE 30	<b>\$47,048,055</b>	<b>\$26,348,175</b>	<b>\$37,467,995</b>	<b>\$11,732,549</b>	<b>\$45,849,915</b>	<b>11,913,093</b>
Cash Reserve Ratio	89%	43%	62%	<b>19%</b>	73%	19%
<b>Cash reserve goal above 10%</b>						



**WATER UTILITY**  
**Cash Flow**  
**FY 2019 Budget**  
**and FY 2020-2023 Forecast**

	ACTUAL YEAR 2016-2017	PROJECTED YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-2023
WATER SALES	71,572,921	70,470,525	73,289,346	76,220,920	79,269,757	82,440,547	85,738,169
OTHER INCOME	3,890,677	2,814,186	3,087,985	3,087,985	3,087,985	3,087,985	3,087,985
INTEREST INCOME	519,192	553,382	375,000	119,000	460,000	121,000	264,000
OPERATING INCOME	75,982,790	73,838,093	76,752,331	79,427,905	82,817,742	85,649,532	89,090,154
METROPOLITAN WATER ACCESSMENT	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)
METROPOLITAN WATER PURCHASES	(14,789,476)	(15,528,950)	(15,994,818)	(16,474,663)	(16,968,903)	(17,477,971)	(18,002,310)
OPERATING EXPENDITURES	(31,331,442)	(38,046,231)	(39,872,167)	(39,740,984)	(40,265,769)	(40,806,112)	(41,612,197)
NET INCOME EXCLUDING DEP.	22,839,980	13,241,020	13,863,454	16,190,366	18,561,178	20,343,557	22,453,755
NET BOND PROCEEDS		0		68,000,000		26,000,000	0
BIC Borrowed			0	380,000	0	146,000	0
BIC Paid			0	(380,000)	0	(146,000)	0
SHORT TERM FINANCING							
IMPACT FEES	2,916,854	500,000	500,000	500,000	500,000	500,000	500,000
OTHER CONTRIBUTIONS	6,215,096	1,255,000	1,205,000	1,205,000	1,205,000	1,205,000	1,205,000
CAPITAL OUTLAY	(1,633,858)	(4,988,901)	(3,114,400)	(1,850,000)	(1,800,000)	(1,200,000)	(1,200,000)
WATERSHED PURCHASES	0	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)
DEBT SERVICE	(3,134,226)	0	(1,117,000)	(1,127,000)	(1,085,000)	(1,090,000)	(1,091,000)
NEW DEBT SERVICE	0	(939,127)	0	(1,055,000)	(3,163,000)	(3,610,000)	(4,503,000)
OTHER INCOME & EXPENSE	4,363,866	(5,673,028)	(4,026,400)	64,173,000	(5,843,000)	20,305,000	(6,589,000)
AVAILABLE FOR CAPITAL	27,203,846	7,567,992	9,837,054	80,363,366	12,718,178	40,648,557	15,864,755
CAPITAL IMPROVEMENTS	(20,180,588)	(17,148,052)	(35,572,500)	(46,246,000)	(46,655,000)	(26,373,000)	(29,090,000)
BEGINING CASH BALANCE	40,024,797	47,048,055	37,467,995	11,732,549	45,849,915	11,913,093	26,188,650
CASH INCREASE/(DECREASE)	7,023,258	(9,580,060)	(25,735,446)	34,117,366	(33,936,822)	14,275,557	(13,225,245)
ENDING BALANCES	47,048,055	37,467,995	11,732,549	45,849,915	11,913,093	26,188,650	12,963,405
DEBT SERVICE COVERAGE	7.29	14.10	12.41	7.42	4.37	4.33	4.01
RATE CHANGE	4%	5%	4%	4%	4%	4%	4%
Cash Reserve Ratio	89%	62%	19%	73%	19%	40%	19%
Reserve Fund Requirement 10% of operating expen	5,314,281	6,059,707	6,288,888	6,323,754	6,425,656	6,530,598	6,663,640
Reserves available for capital	41,733,774	31,408,288	5,443,661	39,526,161	5,487,437	19,658,053	6,299,765



**WATER UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY	RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
51-01301-	2720.10		<b>MAINTENANCE &amp; REPAIR SHOPS</b>										
	512167		ADMINISTRATION OFFICE HVAC, CARPET, RESTROOM	2	4								
	512180	512180	CITY CREEK CANYON - VAULT TOILET REPLACEMENT				64,347						
01401		2015-0460	DISTRIBUTION AND ELECTRICAL BARN	4	4		0						850,000
03201	512185		FUEL PUMP AWNINGS	5	0		7,500						
							\$ 71,847	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 850,000
51-01301-	2720.30		<b>TREATMENT PLANTS</b>										
			<b>CITY CREEK</b>										
	5122666	2015-0445	CITY CREEK BANK STABILIZATION	5	5		114,280						
00701	5122628	2015-0178	DRYING BED PIPELINES	5	5		141,724	700,000					
00701	5122665	2015-0685	<b>CCWTP CONTINGENCY PROJECTS</b>	5	5		100,000		125,000	125,000	125,000	125,000	
00701	5122641	2015-0181	REPAIR/REPLACE SEDIMENTATION BASINS	5	5		32,758						
00701		2017-2043	TREATMENT PLANT UPGRADES	5	5		0	725,000	1,500,000	1,500,000	10,000,000	10,000,000	10,000,000
00701	5122671	2016-0922	CITY CREEK EFFLUENT	5	5		4,500						
00701		2016-0879	BACKWASH TANK SEISMIC UPGRADE AND RETAINING WALL	5	4		0	400,000					
00701		2017-2042	CITY CREEK CCTV SYSTEM UPGRADE	5	4		0	120,000					
00701		2016-0877	LED LIGHTING UPGRADE (REMAINING)	2	4		0		30,000				
00701	5122674		HYPOGENERATOR DESIGN	3	0		0						
00701	5122676		COAGULATION BUILDING DEMOLITION				0						
							\$ 393,262	\$ 1,945,000	\$ 1,655,000	\$ 1,625,000	\$ 10,125,000	\$ 10,125,000	\$ 10,000,000
			<b>PARLEY'S</b>										
00801	5124564	2016-0884	UPGRADE/ADD CAMERAS AND MULTI-PLEXOR FOR CAMERA, NEW SECURITY ALARM SYSTEM	5	5		100,000						
00801	5124565	2015-0693	REPLACE SURFACE WASH PUMP	5	5		75,000						
	5124563		PWTP SEDIMENTATION BASIN/FLOCCULATION BASIN REBUILD	5	5		22,550						
	5124507		PARLEY'S BOAT HOUSE NEW RAMP/ OR REPL LAUNCH SYSTEM W/WINCH	4	4		50,000						
	5124560	2015-0200	ISOLATION VALVES IN SETTLE WATER CHANNEL	4	4		112,483						
	5124532		REPLACEMENT OF CHEMICAL FEED PUMPS PARLEY'S CANYON				0						
00801	5124561	2015-0686	<b>PWTP CONTINGENCY PROJECTS</b>	5	5		100,000		125,000	125,000	125,000	125,000	
00801		2015-0688	FILTER ASSESSMENT AND FILTER #5 REPAIR	5	5		0	500,000					
00801	5124525	2015-0203	REPLACE SLUDGE COLLECTION SYSTEM FLIGHTS, CHAINS, AND DRIVES	5	5		139,437	1,300,000					
00801	5124506	2015-0201	LABORATORY UPGRADE (BUILD)	5	4		120,000	300,000					
00801	5124562	2015-0701	ELECTRICAL SYSTEM ASSESSMENT AND UPGRADE	5	4		0	550,000	1,500,000	1,700,000			
00801		2016-1280	PLANT LIGHTING	5	4		0	30,000					
00801		2015-0594	BACK-UP WATER SUPPLY FOR HIGH PRESSURE TANK	5	3		0	350,000					
00801		2017-2001	FLOC/SED SEISMIC	5	3		0				800,000	8,000,000	
00801		2015-0695	RELOCATE POTASSIUM PERMANGANATE FEED SYSTEM	4	4		0						50,000
00801	5124526	2015-0455	INFLUENT CONTROL BOX	4	3		0						1,000,000
00801		2016-0867	ROOF REPLACEMENT	4	5		0	20,000	1,000,000				
00801		2016-0874	REBUILD/REPLACE FLOC-SED BASIN VENTILATION SYSTEM	2	5		0	20,000	500,000				
00801		2015-0450	PRECURSOR - TASTE AND ODOR CONTROL	3	3		0						1,000,000
00801	5124504	2015-0449	SLUDGE BEDS - PIPING AND VALVES	2	3		0						900,000
00801		2016-0869	5 MILLION GALLONS FINISHED WATER RESERVOIR	4	0		0						500,000
00801		2015-0694	BUILD OFFICES IN MID BUILDING	1	0		0						100,000
							\$ 719,470	\$ 3,070,000	\$ 3,125,000	\$ 1,825,000	\$ 925,000	\$ 8,125,000	\$ 3,550,000
			<b>BIG COTTONWOOD</b>										
00901	51262758		SCADA SYSTEM MASTER PLAN STUDY/UPGRADE CRITICAL COMPONENTS	4	5		0						
	512627461	2015-0553	VERTICAL FLOCCULATION STUDY	4	4		12,016						
	512627467		BCWTP SODIUM HYPOCHLORITE TANK				0						
	512627464		BACKWASH TANK PROTECTION				468,898						
	51262752		REPLACE HIGH PRESSURE MOTORS A				67,274						
	512627456		FILTER SURFACE WASH PIPING REP				0						
	51262751		REPLACE FLASH MIXER MOTORS, SH				0						
	51262759	2015-0186	SCADA MASTER PLAN/OPERATOR STATION UPGRADE IMPLEMENTATION				1,219,604						
00901	512627462	2015-0684	<b>BCWTP CONTINGENCY PROJECTS</b>	5	5		100,000		125,000	125,000	125,000	125,000	
00901	512627460	2015-0192	SEDIMENTATION BASIN REBUILD	5	5		546,405	1,400,000	15,000,000	15,000,000			
00901		2015-0713	HVAC UPGRADES IN FILTER ROOM	5	5		0	300,000					
00901		2015-0191	BIG COTTONWOOD - ASPHALT LOWER-END OF BUILDING TO DRYING BEDS	5	5		0		180,000				
00901		2017-2049	RELOCATION AND HOUSING OF SWITCHGEAR	5	5		0	500,000					
00901	512627457	2016-1279	PLANT LIGHTING	5	4		0	30,000					
00901		2015-0188	FINISHED WATER FLOW METER/FINISHED WATER SAMPLE POINT	5	4		0		100,000	1,000,000			
00901		2016-1236	90 FOOT CHANNEL UPGRADES	4	4		0			1,300,000			
00901		2017-1309	FILTER ASSESSMENT AND REPAIR	4	4		0						200,000
00901		2015-0189	2-10 MILLION GALLON FINISHED WATER STORAGE RESERVOIR	3	3		0						10,000,000
00901		2015-0187	POLE BARN WEST OF CLARIFIERS	2	2		0						80,000
							\$ 2,414,196	\$ 2,230,000	\$ 15,405,000	\$ 17,425,000	\$ 125,000	\$ 125,000	\$ 10,280,000
51-01301-	2720.35		<b>PUMPING PLANTS AND PUMP HOUSES</b>										
01301	513416330	2015-0170	MILITARY AND EAST BENCH PUMP STATION - FULL BACKUP POWER	5	5		220,982						
01301	513416354	2015-0720	CHEMICAL TANK REPLACEMENTS PHASE 3	5	4		247,601						
01301	513416331		EAST BENCH PUMP STATION - FULL BACKUP POWER	5	5		725,195						



**WATER UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY	RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
01301		2016-1174	5TH AVE AND U ST PUMP STATION BACKUP POWER	5	5	0	0		400,000				
01301		2016-1282	BONNEVILLE AND EAST BENCH PUMP STATION - PUMP UPGRADES	5	5	0	0	200,000					
01301		2015-0514	NORTH BENCH PUMP STATION ROOF	4	5	0	0	30,000					
	513505271	2015-0378	UPLAND DR PROJECT	4	5	0	0						
	513800033	2015-0555	3900 SOUTH BIRCH DRIVE VALVE VAULT	4	4	690,203	0	300,000					
01301	513416359	2016-0888	3900 SOUTH PUMP STATION	4	4	0	0			3,600,000			
01301		2015-0531	GOLDEN HILLS PUMP STATION	3	5	0	0	60,000					
01301		2015-0665	UPGRADES TO UNDERGROUND PUMP STATIONS	4	4	0	0						
01301		2016-1208	5TH AND U PUMP STATION IMPROVEMENTS	4	4	0	0	300,000					
01301	513416361	2015-0563	OAKHILLS PUMP STATION - MCC - VFD - PUMP UPGRADE	3	3	0	0			550,000			
01301		2016-0937	ENSIGN DOWNS PS VFD	3	3	0	0				20,000		
01301	513416336	2015-0428	MP 3.12 B - 7800 SOUTH AUXILIARY POWER	3	3	0	0				305,000		
01301		2016-1179	300 EAST PUMP STATION BACKUP POWER	3	3	0	0				400,000		
01301		2016-1180	3300 SOUTH BOOSTER PUMP STATION BACKUP POWER	3	3	0	0				400,000		
01301		2016-1181	KENTON DRIVE PUMP STATION BACKUP POWER	3	3	0	0				400,000		
01301		2016-1183	VIRGINIA AND MILLCREEK PUMP STATION BACKUP POWER	3	3	0	0					400,000	
01301		2016-1184	EASTWOOD PUMP STATION BACKUP POWER	3	3	0	0					400,000	
01301		2016-1185	MILLCREEK PUMP STATION BACKUP POWER	3	3	0	0					400,000	
01301		2016-1186	39TH AND BIRCH PUMP STATION BACKUP POWER	3	3	0	0					400,000	
01301		2016-1187	CANYON COVE PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1188	7800 SOUTH PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1189	GOLDEN HILLS PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1190	CARRIGAN COVE PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1173	NORTH BENCH PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1175	UNIVERSITY PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1176	RESEARCH PARK PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1177	OAK HILLS PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1178	BONNEVILLE PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1191	3900 SOUTH BOOSTER PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1192	6200 SOUTH IRRIGATION PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1193	EMIGRATION PUMP STATION BACKUP POWER	3	3	0	0						400,000
01301		2016-1223	5TH AVE AND U ST PUMP STATION VFD'S	3	3	0	0						200,000
01301		2016-1224	ARLINGTON HILLS PUMP STATION VFD'S	3	3	0	0						200,000
01301		2016-1225	NORTH BENCH PUMP STATION VFD'S	3	3	0	0						200,000
01301		2016-1226	5TH AVE AND U ST PUMP STATION PIPING	3	3	0	0						200,000
		2017-2009	REPAIR AND LINE OF UNIVERSITY DRAIN LINE	2	3	0	0						10,000
01301		2015-0517	4500 SOUTH PUMP STATION BLACK TOP	1	3	0	0						25,000
01301		2015-0522	RECURRING PUMP STATION REPAIR FUND	3	0	0	0						50,000
01301	513416329	2015-0169	UV UPGRADE 6200 SOUTH PUMP STATION	1	2	0	0						300,000
01301		2016-1194	ENSIGN DOWNS PUMP STATION BACKUP POWER	3	0	0	0						400,000
							\$ 1,883,981	\$ 890,000	\$ 400,000	\$ 4,150,000	\$ 1,525,000	\$ 1,600,000	\$ 6,385,000
51-01301-	2730.02		<b>CULVERTS FLUMES &amp; BRIDGES</b>										
01301	5129264		JSL CANAL CONDUIT REPLACEMENT - SUGARHOUSE	5	5	0	0						
01301	5129245	2015-0162	ACCESS BRIDGE ACROSS JSL AT BIG COTTONWOOD CREEK (BIG SPILL)	3	0	185,000	0						
01301	513000045	2016-1166	SUGARHOUSE WELL SPLASH PAD	5	5	20,000	0	20,000					
01301	5129256	2015-0432	VARIOUS CANAL IMPROVEMENTS	5	5	25,000	0	25,000	25,000	25,000	25,000	25,000	
01301	51430010	2016-0737	IRRIGATION SCADA IMPROVEMENTS	5	5	20,000	0	20,000	20,000	20,000	20,000	20,000	
01301		2016-1269	JSL CANAL REPLACEMENT ON HIGHLAND DRIVE, WILMINGTON AVE TO I-80	5	5	0	0						750,000
01301	5129250	2015-0150	J&SL AT HOLLYWOOD AVE, CAPACITY STUDY/CONDUIT ENLARGEMENT	5	4	0	0	5,500					
01301		2016-0816	ROCKHOUSE DUMP - INTAKE IMPROVEMENT	5	4	0	0		78,500				
01301	513000034	2016-0858	FLUME FROM DOUBLE BARRELS TO RAILROAD TRACKS	5	4	40,000	0	40,000	2,500,000				
		2017-2077	REBUILD OF CONFLICT STRUCTURE - J&SL CANAL AND LOWER MILLCREEK DITCH	5	4	0	0						20,000
01301		2016-0755	LITTLE COTTONWOOD CREEK FLUME DOWNSTREAM OF WASATCH DRIVE - REPAIRS	4	5	20,000	0						
01301		2016-1268	JSL CANAL HEAD GATE REPLACEMENTS	4	5	0	0						
01301	5129246	2015-0158	REPLACE FLUME/AUTO DUMP AND JSL CANAL ENCLOSURE @ MILLCREEK	4	4	0	0						468,000
		2017-2076	HEADGATE REHABILITATION 18/19	4	4	0	0	20,000	20,000	20,000	20,000	20,000	
01301	513000026	2015-0161	E JORDAN TOWER - IMPROVED ACCESS	3	5	0	0	20,000	100,000				
01301		2016-1167	6200 SOUTH LIFT STATION WEIR PROTECTION	3	5	0	0						60,000
01301	5129231	2015-0152	JSL CANAL - 1750 S EMIGRATION DIVERSION STRUCTURE REBUILD	4	3	0	0						290,000
01301	5129233	2015-0604	JSL 3800 S REHAB FLOOR AND LEAKAGE	3	4	0	0						18,000
01301	5129251	2015-0151	JSL ENCLOSURE FROM 1300 EAST TO MILLCREEK	3	3	0	0						997,000
01301		2015-0168	IMPROVEMENTS TO JSL DUMP AT I-80	3	3	0	0						11,000
01301	5129235	2015-0806	JSL 4500 SOUTH TO OSAGE ORANGE DRIVE - CANAL BANK HYDRAULICS	3	3	0	0					20,000	
01301	5129249	2015-0149	NEW IRRIGATION CONDUIT ON HARVARD AVENUE	4	0	0	0						402,000
		2016-0865	OIL SEPARATORS AND DRAINAGE SYSTEM FOR THE ARTESIAN SHOP		0	0	0	250,000					
01301		2016-1165	LOW FLOW CHANNEL AT SPENCER'S POND ( BIG COTTONWOOD CREEK)	4	0	0	0						300,000
01301		2016-1284	1100 EAST DIVERSION STRUCTURE AT WILLINGTON	4	0	0	0						50,000
01301	5129232	2015-0602	JSL CANAL - MODIFY BIG SPILL TO HANDLE TEMPORARY PUMP	2	2	0	0						82,000
		2016-1287	STUDY ON WELLS AT WALKER LANE AND FOUNTAIN BEAU	1	3	0	0						1,000,000



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COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY	RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
01301		2016-0749	J&SL DIVERSION STRUCTURE AT 2700 SOUTH	2	0	0	0						350,000
01301		2016-1286	3000 EAST WELL FOR WATER DELIVERIES	2	0	0	0						2,000,000
01301	5129242	2015-0153	PIPING DITCH ON JSL, OSAGE ORANGE AVENUE TO LINCOLN LANE	1	0	0	0						175,000
01301	513000022		JOINT DAM DIVERSION STRUCTURE				0						
							\$ 310,000	\$ 400,500	\$ 2,743,500	\$ 65,000	\$ 65,000	\$ 85,000	\$ 6,973,000
<u>51-01301-</u>	<u>2730.04</u>		<u>DEEP PUMP WELLS</u>										
01301	5132274	2015-0515	6200 SOUTH WELL STATION ROOF	4	5	22,540							
01301	5132245	2015-0429	WELL ASSESSMENT AND UPGRADES	5	5	99,638		100,000	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	440,226		3,000,000					
01301	5132269	2015-0212	MP3.4 - 4TH AVENUE WELL/BRICK TANK IMPROVEMENTS	5	5	55,518		400,000					
01301	51322336	2015-0171	WELL TREATMENT PROJECT - 1500 EAST WELL	4	4	0		100,000					
01301		2016-0820	DYERS INN	4	4	0					550,000		
		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
							\$ 717,922	\$ 3,700,000	\$ 300,000	\$ 300,000	\$ 1,045,000	\$ 300,000	\$ 15,210,000
<u>51-01301-</u>	<u>2730.06</u>		<u>STORAGE RESERVOIRS</u>										
01301	5134506	2017-1290	MOUNTAIN DELL RESERVOIR SEDIMENT SAMPLING AND BASIN PRE DESIGN	5	4	50,000							
01301	5134510		PARLEY'S DIVERSION STRUCTURE - IMPROVE BOOM DEPLOYMENT LOCATION	5	3	5,000							
01301	5134476		CHEVRON OIL SPILL PROTECTION PROJECT			3,000							
	51360086		UTAH LAKE ALGAE BLOOM			0							
01301	5134458	2015-0155	REHABILITATION OF MOUNTAIN DELL DAM	5	4	0		2,125,000	2,125,000				
01301	5134455	2015-0167	RED PINE DAM REHABILITATION	5	4	0		30,000					484,000
01301	5134469	2015-0165	LAKE MARY CONCRETE REPAIRS	5	3	0							10,000
01301	5134467	2015-0154	MOUNTAIN DELL RESERVOIR - BYPASS PIPE LITTLE DELL TO PARLEY'S	5	0	1,200,000		1,000,000					
00801		2017-2094	NEW ACTUATORS FOR THE PARLEY'S CREEK DIVERSION STRUCTURE	5	0	0		20,000					
01301	5134468	2015-0607	LITTLE DELL RESTORE PARLEY'S DIVERSION EXTERIOR COATING	4	4	0		7,000					
01301	5124512	2015-0209	REPLACE VALVES ON MT. DELL DAM	4	4	0							320,000
		2017-2080	REHABILITATION OF THE LAKE MARY GAUGE	3	5	0		10,000					
01301		2016-1272	CECRET DAM REHABILITATION - PRE DESIGN	4	3	0		50,000					2,000,000
		2017-2082	REPAIRS TO TWIN LAKES DAM GAUGE	3	4	0		10,000					
		2017-2079	REPAIRS AND IMPROVEMENTS TO RED BUTTE DAM ROAD	3	4	0		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
00801		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				1,100,000			
							\$ 1,258,000	\$ 3,282,000	\$ 2,125,000	\$ 1,100,000	\$ -	\$ -	\$ 3,139,000
<u>51-01301-</u>	<u>2730.07</u>		<u>DISTRIBUTION RESERVOIRS</u>										
01301	513416355	2015-0533	EAST BENCH TANK REPAIR	3	4	207,662							
01301		2017-2060	NEFF'S TANK OVERFLOW DRAIN	5	5	0		300,000					
01301		2017-2067	MARCUS RESERVOIR TANK UPGRADES	5	5	0		50,000					1,000,000
01301		2017-2074	EASTWOOD NORTH - INTERIOR COATING	5	5	0		150,000					
01301		2015-0527	FERGUSON TANK UPGRADE	5	5	0		57,000					
01301	51360084	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		2015-0409	MOUNT OLYMPUS TANKS DRAIN/OVERFLOW STRUCTURE	5	4	0		85,000					
01301	5134507	2016-1171	FORT DOUGLAS IMPROVEMENTS/EXPANSION	5	4	7,500		150,000					1,500,000
01301	513444159	2015-0174	MILITARY RESERVOIR REPAIR	5	3	17,253							11,020,000
01301		2015-0406	EMIGRATION TUNNEL POWER	4	4	0							45,000
01301		2017-2111	TANNER RESERVOIR ROOF REPLACEMENT/FULL REPLACEMENT	4	4	0		20,000	100,000	1,000,000			
01301		2015-0719	DISTRIBUTION TANK AND RESERVOIR PAVING	4	4	0			80,000	80,000	80,000	80,000	
01301		2016-0753	BASKIN OVERFLOW/DRAIN GOOSENECK BOX	4	4	0					100,000		
01301		2017-2127	SEISMIC PREDESIGN/STUDY FOR MARCUS RESERVOIR - Duplicate	3	4	0							
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	0		100,000	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



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01301		2015-0526	VICTORY ROAD	1	3	0						22,000
01301		2016-0754	CAPITOL HILLS TANKS - TRUCK ACCESS	3	0	0						200,000
01301		2017-2121	TELFORD RESERVOIR SAFETY IMPROVEMENTS	1	2	0	10,000					
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
						\$ 332,415	\$ 1,022,000	\$ 545,000	\$ 1,430,000	\$ 480,000	\$ 380,000	\$ 14,737,000
51-01301-	2730.08		<b>DISTRIBUTION MAINS &amp; HYDRANTS</b>									
			<b>CITY, COUNTY, STATE AND MISC. DRIVEN PROJECTS</b>									
01301	513505229	2016-0745	WEST INDIANA AVENUE (850 SOUTH) - SURPLUS TO 3100 WEST	3	5	341,937						
01301	51400034	2015-0733	SECONDARY WATER IRRIGATION MASTER PLAN FOR SLC OPEN SPACES	1	0	47,864						
01301	513505280		PROGRAM MANAGEMENT TOOLS	5	5	0	563,000					
01301	513505272	2016-1233	WATER MAIN REPLACEMENT - 900 SOUTH	5	5	159,903						
01301	513505273	2016-0744	1300 EAST - WATER LINE	3	4	444,586	2,000,000					
01301	513505270		NW QUADRANT DEVELOPMENT PROJECT SUPPORT	5	5	0	75,000					
01301	51400029	2015-0431	CITY/COUNTY/STATE DRIVEN PROJECTS	5	5	350,000	250,000	350,000	350,000	350,000	350,000	
01301	513505270		PRISON RELOCATION UTILITIES AND DEVELOPMENT SUPPORT	5	5	0	300,000					
01301		2016-1264	NW QUADRANT (DEVELOPMENT) PIPE UPSIZE	5	5	0						1,400,000
01301		2017-2056	ENERGY EFFICIENCY/RENEWABLE ENERGY CAPITAL IMPROVEMENTS	5	5	0	200,000	200,000	200,000	200,000	200,000	
01301		2016-0835	GLADIOLA WATER LINE CONDITION ASSESSMENT	5	5	0	200,000					
01301	513900115	2015-0398	UPPER CONDUIT METER REPLACEMENT	4	5	0	50,000					
01301		2017-2014	MOTORS AT WORK	4	4	0	20,000					
01301	513505230	2015-0245	EAST INDIANA AVENUE (850 SOUTH) - REDWOOD RD TO SURPLUS	3	5	39,841	985,000					
01301			MOUNTAIN VIEW CORRIDOR			0	500,000					
						\$ 1,384,131	\$ 5,143,000	\$ 550,000	\$ 550,000	\$ 550,000	\$ 550,000	\$ 1,400,000
			<b>WATER MAIN MISCELLANEOUS PROJECTS</b>									
	513800039		GLADIOLA ISOLATION VALVE INSTALLATIONS			262,000						
01301	514515	2015-0491	REGULATOR REPLACEMENT	5	5	300,000	20,000	300,000	300,000	300,000	300,000	
01301	513800038	2015-0493	NEW MAINLINE VALVES - COUNTY	5	5	138,000	138,000	138,000	138,000	138,000	138,000	
01301	51400039	2015-0489	NEW WATER LINES - CONTRIBUTIONS BY DEVELOPERS	5	5	500,000	500,000	500,000	500,000	500,000	500,000	
01301	513700032	2015-0490	FIRE HYDRANT REPLACEMENTS	5	5	400,000	400,000	400,000	400,000	400,000	400,000	
01301	513800039	2015-0492	NEW MAINLINE VALVES - CITY	5	5	138,000	262,000	262,000	262,000	262,000	262,000	
	513505274	2016-0817	ARV TO CODE - VENT TO ATMOSPHERE	5	5	15,000						
		2018-1002	UPPER CONUIT - LINE SYPHON	5	4	0	200,000					
		2016-0961	4TH AND A PRV	4	5	0	210,000					
		2016-0958	10TH AND B PRV	3	4	0			210,000			
		2016-0751	RECONNECTION OF 1700 SOUTH AND FOOTHILL UTILITIES	2	4	0				20,000		
		2017-2072	SAMPLING TAPS	3	3	0	50,000	50,000	50,000	50,000	50,000	
		2016-0923	SAM PARK INLET VAULT	3	3	0				35,000		
		2016-0959	10TH AND E PRV	3	3	0				210,000		
		2016-0960	8TH AND L PRV	3	3	0						210,000
		2016-0914	CONNECTIONS AT RR	4	0	0						440,000
						\$ 1,753,000	\$ 1,780,000	\$ 1,650,000	\$ 1,860,000	\$ 1,915,000	\$ 1,650,000	\$ 650,000
			<b>WATER MAIN REPLACEMENTS</b>									
	513505275		SMALL DIAMETER PIPE REPLACEMENT PROGRAM	5	5	150,000	250,000	250,000	250,000	250,000	250,000	
01301	513302088	2015-0234	4620 SOUTH - HIGHLAND DRIVE TO END OF STREET	5	5	244,375						
	513505203	2015-0247	600 WEST - 600 NORTH TO RAILROAD CROSSING	5	4	314,640						
	513505271	2015-0378	UPLAND DR PROJECT	4	5	0						
	513505200	2015-0243	STATE STREET - 700 SOUTH TO 800 SOUTH	4	5	0						
	513505216		1000 NORTH - 1500 WEST TO REDWOOD ROAD	4	5	0						
	513505201	2015-0244	STATE STREET - KELSEY AVENUE (1161 SOUTH) TO 1300 SOUTH	4	5	0						
	513302037		G14-4 AVONDALE DR (3700 E) - 7650 S TO 3623 E	4	4	0						
	514504		REGULATOR REPLACEMENT FOR R-18			0						
	513302105		SPLENDOR CIRCLE 8" MAIN			0						
	514514		CAPITOL HILLS PRV REPLACEMENT			0						
01301	513302017	2015-0618	900 EAST AND 5600 SOUTH WATER MAIN REPLACEMENT	5	5	22,500						1,500,000
01301		2016-0739	MILLCREEK WAY WATER MAIN REPLACEMENT	5	5	0	190,000					
01301		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	0	550,000					
01301		2016-0921	BACKFEED FOR UTAH STATE CAPITOL	5	4	0			15,000			
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	0	80,000					
01301	513504858	2015-0547	DULUTH AVE (1550 N) - 900 W TO DEXTER, 900 W - 1500 N TO DULUTH	4	5	11,812		175,000				



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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
	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
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
		2017-2069	CAP STUB AT 6200 SOUTH HOLLADAY BOULEVARD	3	3	0		15,000					
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



**WATER UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
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
						\$ 743,327	\$ 1,385,000	\$ 1,217,500	\$ 425,000	\$ 1,418,000	\$ 250,000	\$ 31,910,700
			<b>MASTER PLAN PROJECTS</b>									
01301	513302060		MP3.6A - 12" PIPELINE ON FT UNION (7800 S LOW ZONE)	4	3	134,235						
01301	513416337	2015-0629	MP3.16 - NORTH BENCH PUMP STATION	5	5	43,555				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	248,328	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		MP3.6B - 12" PIPELINE ON BRIGHTON WAY	4	0	0						200,000
01301	513505117	2015-0220	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	39,120	400,000	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		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
						\$ 465,238	\$ 4,400,000	\$ 10,080,000	\$ 10,000,000	\$ 2,300,000	\$ -	\$ 166,883,000
			<b>TOTAL DISTRIBUTION MAINS &amp; HYDRANTS</b>			\$ 4,345,695	\$ 12,708,000	\$ 13,497,500	\$ 12,835,000	\$ 6,183,000	\$ 2,450,000	\$ 200,843,700
	2730.09		<b>WATER SERVICE CONNECTIONS</b>									
03301	513900116	2015-0534	2700 EAST - RELOCATE SERVICE CONNECTIONS	3	3	235,593						
01701	513900112	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	513900109	2015-0495	NEW SERVICE CONNECTIONS	5	5	400,000	400,000	400,000	400,000	400,000	400,000	
02201	513900110	2015-0496	LARGE METER REPLACEMENTS	5	5	400,000	400,000	400,000	400,000	400,000	400,000	
02601	513900111	2015-0497	SMALL METER REPLACEMENTS	5	5	485,000						
02601	513900113	2015-0498	METER REPLACEMENT PROGRAM	5	5	834,395	200,000	200,000	200,000	200,000	200,000	
02601	513900120		AMI TOWERS - CITY	4	0	21,474						
02601		2017-2122	AMI TOWERS - COUNTY	4	0	0	150,000					
02601		2017-2126	AMI METER REPLACEMENT PROGRAM	1	0	0	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000
						\$ 4,176,462	\$ 6,050,000	\$ 5,900,000	\$ 5,900,000	\$ 5,900,000	\$ 5,900,000	\$ 3,100,000
	2730.20		<b>LANDSCAPING</b>									
00601	512627463	2015-0668	DESIGN: DEMOLITION & REPLACEMENT OF BIG COTTONWOOD PARK & RIDE RESTROOMS	5	4	5,534						
03201	51360070		MAINTENANCE ASPHALT PARKING LOT	4	5	0						
	5129259		LITTLE DELL RECREATION AREA PAVEMENT REPAIR			0						
00601	5122668	2015-0672	NEW SIGNAGE - BASE AREA OF CITY CREEK CANYON	5	5	989						
00601	5134508	2017-1291	RED BUTTE DAM - CAMERAS	5	5	1,904						
00601	5134509	2017-1292	LITTLE DELL RECREATION AREA - RESTROOM REPLACEMENT	5	5	4,500						
00601	512627465	2017-1293	BIG COTTONWOOD CANYON RESTROOM REPLACEMENTS	5	5	127,340						
00601	5122672	2017-1295	RECREATION AREA PICNIC TABLE REPLACEMENT	5	5	3,750	25,000					
00601	5122673	2015-0670	ACCESSIBILITY UPGRADES TO WATERSHED RECREATION FACILITIES	5	0	4,250	35,000	35,000				
00601	512359	2017-1294	LITTLE MOUNTAIN RESTROOM REPLACEMENT	5	4	34,533						
00601	5122669	2015-0671	CITY CREEK BASE AREA REDESIGN	4	4	20,000						
	512627466	2017-2032	SILVER LAKE RESTROOM DEMOLISH AND REPLACE	5	5	300,000						
00601	512627463	2017-1296	BIG COTTONWOOD CANYON PARK & RIDE RESTROOM REBUILD	5	5	0		500,000				
00601		2017-2116	LITTLE DELL RECREATION AREA - PARKING STIPING & ROADWAY REPAIR	5	5	0	40,000					
00601		2017-2117	CITY CREEK ROADWAY ASPHALT	5	5	0	100,000					



**WATER UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
00601		2015-0215	AFFLECK PARK CAMPGROUND ENTRANCE ROAD REPAIR	3	4	22,000						
00601		2015-0669	DEMOLITION & REMOVAL OF OLD GENERATOR BUILDING - CITY CREEK CANYON	2	4	0						
03201	51360014	2015-0519	WEST TEMPLE CAMPUS - CONSERVATION IMPROVEMENTS	2	4	0	75,000					
00601		2015-0214	BEARPROOF TRASH CANS AND DUMPSTERS	4	0	0		15,000				
						\$ 524,801	\$ 275,000	\$ 550,000	\$ -	\$ -		\$ -
								-	-	-		-
			<b>TOTAL CAPITAL IMPROVEMENTS</b>			\$ 17,148,052	\$ 35,572,500	\$ 46,246,000	\$ 46,655,000	\$ 26,373,000	\$ 29,090,000	\$ 275,067,700



**WATER UTILITY CAPITAL PURCHASES BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICAL Y RATING	CONDITION RATING	PAST YEAR BUDGET 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
51-03301-	2710.10		<b>LAND</b>									
03301		2015-0427	WATERSHED PROPERTY	5	0	1,500,000		1,500,000	1,500,000	1,500,000	1,500,000	
03301		2015-0481	1811 WEST 500 SOUTH	5	5	2,689,818						
03301			2668 EAST COMANCHE DRIVE			227,095						
03301			983 N PINECREST CANYON ROAD EMIGRATION CANYON			201,989						
03301		2015-0172	MP 3.8C - VICTORY ROAD - ENSIGN DOWNS PHASE II - PROPERTY PURCHASE - IF	4	0		1,500,000					500,000
						\$ 4,618,901	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 500,000
51-03301-	2710.30		<b>WATER RIGHTS &amp; SUPPLY</b>									
03301		2015-0488	WATER STOCK PURCHASES	2	2	30,000	30,000	30,000	30,000	30,000	30,000	30,000
						\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
		Replace No										
	2750.10		<b>AUTOMOBILES &amp; TRUCKS</b>									
00701			WORK UTILITY VEHICLE				23,000					
01301		31068	ESCAPE SUV 4X4				23,500					
01301			INSPECTION VEHICLES (2)				50,000					
01601		31112	REPLACEMENT FOR SURVEY VEHICLE 31112 Sell				28,000					
01701		31115/31116/NEW	INTERNATIONAL V&H TRUCKS 7400 4X2 (3)				465,000					
00601		31136	CHEVROLET 3/4 TON PICK-UP TRUCK				29,500					
02101		31082	CHEVROLET 1/4 TON PICK-UP TRUCK				21,500					
03201		31088	ELECTRIC SEDAN CHEVY BOLT				28,000					
03201		31031	ELECTRIC SEDAN FORD FOCUS				26,500					
02801		36960	GMC 1/4 TON PICK-UP TRUCK				28,500					
01601		31130	GMC 1/4 TON PICK-UP TRUCK				28,500					
00801		31117	GMC 3/4 Ton Cab-n-Chassis Flat Bed w/ Plow				33,000					
02601		31128	GMC 3/4 Ton Pick-up Truck				32,250					
02601		New	GMC 1 Ton Pick-up Truck				37,750					
01401		31016	Chevrolet 3/4 Ton Pick-up Truck w/ Lift Gate				33,000					
01401		31005/31006/31009	3/4 P U/ replace w/1/4 Ton Pick-up 2wd (3)				64,500					
01401		31095/31096	3/4 Ton Cab-n-Chassis w/Util. Bed 4wd ext Cab (2)				77,000					
02301			VARIOUS			1,000,000		1,000,000	1,000,000	1,000,000	1,000,000	
						1,000,000	1,029,500	1,000,000	1,000,000	1,000,000	1,000,000	-
	2750.30		<b>FIELD MAINT EQUIPMENT - MOTIVE</b>									
01701			BACKHOE EXCHANGE PROGRAM			90,000	90,000	90,000	90,000			
02301			VARIOUS			300,000	300,000	300,000	300,000			
00901			SNOW PLOW-FOR TRUCK				8,000					
01701			Cat Backhoe Buyback Program				81,000					
00101			Link Belt 160 x 4 Excavator				180,000					
02201			Interstate 50ldc Trailer				51,000					
02101			Hyster Fork Lift				60,000					
01701			Backhoe Trailer				55,000					
00101			S550 Slide in Assy (Masport H XL3 Direct Drive) Alum				12,300					
01701			Case Backhoe				90,000					
			VARIOUS									
						390,000	927,300	390,000	390,000	-	-	-
	2760.10		<b>PUMP PLANT EQUIPMENT</b>									
00801			CLEAR WATER AND AREA DRAIN PUMPS				40,000					
00801			REPLACE EXISTING LMI CHEMICAL FEED PUMPS				20,000					
00801			REPLACE VALVING MAINFOLD IN PUMP HOUSE				100,000					
00901			EQUALIZATION PUMP				18,000					
00901			WASTEWATER RETURN PUMP				12,000					
01301			VARIOUS			50,000	50,000	50,000	50,000	50,000	50,000	
						50,000	240,000	50,000	50,000	50,000	50,000	-
	2760.20		<b>TREATMENT PLANT EQUIPMENT</b>									
00701			FLOC BUSHING	4	4		30,000					
00701	5122631		SECURITY FENCE FOR SLUDGE BEDS/BACKWASH TANK	3	3		75,000					
00701	5122632		SECURITY FENCING FOR BACK OF PLANT	3	3		40,000					
00701			REPLACEMENT PARTICLE COUNTERS				24,000					
00701			TURBIDITY METERS				35,000					
00701			ON-DEMAND HOT WATER HEATERS			100,000						
00801			DR 6000-PHOTANALYZER (UV BULB)				8,000					
00801			CHLORINE ANALYZER				8,000					
00801			HEADLOSS METER				13,300					
00801	18		BACK-UP WATER SUPPLY FROM CLEARWELL TO HIGH PRESSURE TANK					50,000				



## WATER UTILITY CAPITAL PURCHASES BUDGET

### Five Year Projected Budget 2019-2023

[illegible]







**SEWER UTILITY  
ENTERPRISE FUND  
BUDGET SUMMARY  
FY 2019-21**

SOURCES	ACTUAL	AMENDED	PROJECTED	PROPOSED	FORECAST	FORECAST
	2016-17	BUDGET	ACTUAL	BUDGET	BUDGET	BUDGET
				2018-19	2019-20	2020-21
REVENUES						
METERED SALES	\$ 24,670,395	\$ 32,712,188	\$ 32,712,188	\$ 37,677,666	\$ 43,329,316	\$ 47,662,248
INTEREST INCOME	423,004	1,263,356	1,263,356	1,052,000	49,000	839,000
OTHER REVENUES	237,446	235,000	235,000	235,000	235,000	235,000
TOTAL REVENUES	\$ 25,330,845	\$ 34,210,544	\$ 34,210,544	\$ 38,964,666	\$ 43,613,316	\$ 48,736,248
OTHER SOURCES						
IMPACT FEES	2,065,696	700,000	700,000	700,000	700,000	724,500
GRANTS & OTHER RELATED REVENUES	3,522,331	2,020,000	2,020,000	2,020,000	2,020,000	720,000
OTHER SOURCES	26,156	20,000	20,000	20,000	20,000	20,000
STATE LOAN (NWQ)	-	-	8,500,000	-	-	-
SHORT-TERM FINANCING	-	-	-	3,985,000	-	-
BOND PROCEEDS	72,117,791	-	-	-	160,000,000	-
TOTAL OTHER SOURCES	\$ 77,731,974	\$ 2,740,000	\$ 11,240,000	\$ 6,725,000	\$ 162,740,000	\$ 1,464,500
TOTAL SOURCES						
	\$ 103,062,819	\$ 36,950,544	\$ 45,450,544	\$ 45,689,666	\$ 206,353,316	\$ 50,200,748
EXPENSES & OTHER USES						
EXPENDITURES						
PERSONNEL SERVICES	\$ 8,054,504	\$ 9,717,084	\$ 9,717,084	\$ 10,375,345	\$ 10,582,852	\$ 10,794,509
OPERATING & MAINTENANCE	1,359,830	1,892,620	1,892,620	1,934,720	1,973,014	2,012,471
TRAVEL & TRAINING	48,067	71,200	71,200	86,900	88,638	90,411
UTILITIES	904,210	984,909	984,909	980,070	999,671	1,019,663
TECHNICAL SERVICES	1,096,358	3,228,104	3,228,104	2,388,104	2,321,644	2,384,355
DATA PROCESSING	249,464	205,000	205,000	280,000	285,600	291,312
FLEET MAINTENANCE	467,758	518,000	518,000	543,000	553,860	564,937
ADMINISTRATIVE SERVICE FEE	345,643	325,000	325,000	275,000	280,500	286,110
PAYMENT IN LIEU OF TAXES	345,994	306,525	306,525	368,250	375,615	383,127
BILLING COST	813,896	813,896	813,896	813,896	813,896	813,896
BONDING NOTE EXPENSE	372,315	-	-	-	-	-
RISK MANAGEMENT	258,635	482,195	482,195	308,500	314,670	320,963
TRANSFERS TO GENERAL FUND	17,540	20,000	20,000	20,000	20,400	20,808
OTHER CHARGES AND SERVICES	(21,268)	173,536	173,536	148,274	151,265	154,288
TOTAL EXPENDITURES						
	\$ 14,312,946	\$ 18,738,069	\$ 18,738,069	\$ 18,522,059	\$ 18,761,625	\$ 19,136,850
OTHER USES						
CAPITAL OUTLAY	1,333,593	1,613,300	291,300	5,946,500	1,918,000	918,000
CAPITAL IMPROVEMENT BUDGET	10,537,309	115,637,743	45,127,637	80,410,000	93,970,000	89,419,909
DEBT SERVICES	3,134,226	5,532,045	6,050,603	6,058,000	12,736,000	22,391,000
TOTAL OTHER USES						
	\$ 15,005,128	\$ 122,783,088	\$ 51,469,540	\$ 92,414,500	\$ 108,624,000	\$ 112,728,909
TOTAL USES						
	\$ 29,318,074	\$ 141,521,157		\$ 110,936,559	\$ 127,385,625	\$ 131,865,759
EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES						
	\$ 73,744,745	\$ (104,570,613)	\$ (24,757,065)	\$ (65,246,893)	\$ 78,967,691	\$ (81,665,011)
OPERATING CASH BALANCES						
BEGINNING JULY 1	\$ 21,171,500	\$ 94,916,245	\$ 94,916,245	\$ 70,159,180	\$ 4,912,287	\$ 83,879,978
Restricted Bond Proceeds		\$ -	\$ -	\$ -	\$ -	\$ -
ENDING JUNE 30	\$ 94,916,245	\$ (9,654,368)	\$ 70,159,180	\$ 4,912,287	\$ 83,879,978	\$ 2,214,967
Cash Reserve Ratio	663%	-52%	374%	27%	447%	12%
Cash reserve goal above 10%						



**SEWER UTILITY**  
**Cash Flow**  
**FY19 Budget**  
**and FY2020-2023 Forecast**

	ACTUAL YEAR 2015-2016	ACTUAL YEAR 2016-2017	PROJECTED YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-23
SEWER SALES	\$21,709,585	\$24,670,395	\$32,712,188	\$37,677,666	\$43,329,316	\$47,662,248	\$51,475,228	\$56,622,751
OTHER INCOME	243,421	263,602	255,000	255,000	255,000	255,000	255,000	255,000
INTEREST INCOME	172,185	423,004	1,263,356	1,052,000	49,000	839,000	22,000	1,090,000
OPERATING INCOME	22,125,191	25,357,001	34,230,544	38,984,666	43,633,316	48,756,248	51,752,228	57,967,751
NEW PLANT O&M COSTS				0	0		(250,000)	(252,500)
OPERATING EXPENSES	(13,738,294)	(14,312,946)	(18,738,069)	(18,522,059)	(18,761,625)	(19,136,850)	(19,269,587)	(19,657,465)
NET INCOME EXCLUDING DEP.	8,386,897	11,044,055	15,492,475	20,462,607	24,871,691	29,619,398	32,232,641	38,057,786
IMPACT FEES	1,229,395	2,065,696	700,000	700,000	700,000	724,500	749,858	776,103
STATE LOAN (NWQ)	0	0	8,500,000					
SHORT TERM FINANCING PROCEEDS				3,985,000				
NET BOND PROCEEDS	0	72,117,791			160,000,000		188,000,000	
ISSUE COSTS (PROCEEDS)	0			15,000	893,000	0	1,049,000	0
ISSUE COSTS (EXP)				(15,000)	(893,000)	0	(1,049,000)	0
OTHER CONTRIBUTIONS	217,888	3,522,331	2,020,000	2,020,000	2,020,000	720,000	520,000	520,000
CAPITAL OUTLAY	(601,325)	(1,333,593)	(291,300)	(5,946,500)	(1,918,000)	(918,000)	(930,000)	(930,000)
STATE LOAN DEBT REPAYMENT						(6,375,000)	(2,125,000)	
SHORT TERM FINANCING DEBT REPAYMENT					(4,200,000)			
ADDITIONAL DEBT SERVICE	0		0	0	(2,481,000)	(7,442,000)	(10,672,000)	(17,131,000)
DEBT SERVICE	(3,133,776)	(3,134,226)	(6,050,603)	(6,058,000)	(6,055,000)	(8,574,000)	(8,560,000)	(8,560,000)
OTHER INCOME & EXPENSE	(2,287,818)	73,237,999	4,878,097	(5,299,500)	148,066,000	(21,864,500)	166,982,858	(25,324,897)
NET FOR CAPITAL	6,099,079	84,282,054	20,370,572	15,163,107	172,937,691	7,754,898	199,215,499	12,732,889
CAPITAL IMPROVEMENTS	(10,316,412)	\$ (10,537,309)	\$ (45,127,637)	\$ (80,410,000)	(93,970,000)	(89,419,909)	(92,511,000)	(119,080,000)
CASH INCREASE/(DECREASE)	(4,217,333)	73,744,745	(24,757,065)	(65,246,893)	78,967,691	(81,665,011)	106,704,499	(106,347,111)
BEGINING CASH BALANCE	25,388,833	21,171,500	94,916,245	70,159,180	4,912,287	83,879,978	2,214,967	108,919,466
CASH INCREASE/(DECREASE)	(4,217,333)	73,744,745	(24,757,065)	(65,246,893)	78,967,691	(81,665,011)	106,704,499	(106,347,111)
ENDING BALANCES	21,171,500	94,916,245	70,159,180	4,912,287	\$83,879,978	\$2,214,967	\$108,919,466	\$2,572,355
RATE CHANGE	8.00%	12%	30%	15%	15%	10%	8%	10%
Cash Reserve Ratio	154%	663%	374%	27%	447%	12%	558%	13%
Debt Service Coverage	2.68	3.52	2.56	3.38	1.95	1.32	1.51	1.48



**SEWER UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
	<u>2720.10</u>		<u>MAINTENANCE &amp; REPAIR SHOPS - 2720.10</u>									
10101	52462	2015-0265	LIFT STATION STORAGE FACILITY	2	0	0						
10101	52490790	2016-0956	S&A LIFT STATION STORAGE IMPROVEMENTS	5	5	9,000		60,000				
						9,000	0	60,000	0	0	0	0
	<u>2720.05</u>		<u>LIFT STATIONS - 2720.05</u>									
			<u>LIFT STATION ASSET MANAGEMENT PROGRAM</u>									
10101	52490786		TRP AIRPORT LIFT STATION 4000			0						
10101	52490788	2015-0642	ANNUAL SYSTEM WIDE LIFT STATION CONDITION ASSESSMENT &	5	5	117,666	200,000	200,000	200,000	200,000	80,000	320,000
			<u>LIFT STATION RENEWAL/REPLACEMENT PROGRAM</u>									
10101	52490774		CONCORD LIFT STATION MUFFIN MONSTER			12,911						
10101	52490782		EAST LIFT STATION AT AIRPORT			0						
10101		2015-0414	ANNUAL PUMP REPLACEMENT (VARIOUS)	5	5	0	25,000	50,000	50,000	50,000	50,000	200,000
10101	52490758	2015-0266	4000 WEST LIFT STATION UPGRADE/REPLACEMENT (SS12)	5	5	77,137	1,900,000					
10101	52490780	2015-0263	1700 NORTH LIFT STATION REHABILITATION (SS03)	4	5	22,770	300,000					
10101		2017-1301	5300 WEST LIFT STATION (SS17) CAPACITY UPGRADES	3	4	0						2,000,000
10101			BILLY MITCHELL (SS16) CAPACITY UPGRADES	3	4	0						2,000,000
10101	52490778	2015-0264	SOUTH LIFT STATION (SS05)	3	4	0		65,000	601,000			
10101		2015-0417	INDUSTRIAL LIFT STATION REHAB & PIPING UPGRADES (SS21)	3	4	0		70,000	705,000			
10101		2015-0267	NEW ROSE PARK LIFT STATION REPLACEMENT (SS02)	3	3	0			69,000	690,000		
10101		2015-0268	500 W LIFT STATION WET WELL IMPROVEMENTS (SS28)	3	3	0			50,000	500,000		
10101		2015-0274	PIONEER LIFT STATION WET WELL IMPROVEMENTS (SS20)	2	4	0						
10101		2015-0418	CENTENNIAL LIFT STATION WET WELL REHABILITATION (SS 19)	2	4	0						370,000
10101		2015-0271	CANNON LIFT STATION WET WELL IMPROVEMENTS	2	3	0						100,000
10101		2015-0270	WESTPOINTE LIFT STATION WET WELL IMPROVEMENTS (SS 33)	2	2	0						100,000
10101		2015-0272	900 NORTH LIFT STATION WET WELL IMPROVEMENTS	1	2	0						126,000
		2017-2075	HUSKY LIFT STATION	4	0	0	2,600,000					
						0						
			<u>SERVICE EXPANSION/RELIABILITY PROGRAM</u>			0						
10101		2015-0666	SWEDE TOWN LIFT STATION	1	0	0						1,500,000
						230,484	5,025,000	385,000	1,675,000	1,440,000	130,000	6,716,000
	<u>2720.30</u>		<u>TREATMENT PLANTS</u>									
			ROOF REPAIRS/REPLACEMENTS	5	5	0	60,000					
			SUPPLIED AIR SYSTEM REPLACEMENT CL2 BLDG	5	4	0	20,000					
			DIGESTER ROOF WALKWAY REPLACEMENT	5	4	0	10,000					
			RETURN FLOW PUMP REBUILD (MANHOLE#2)	5	4	0	50,000					
11201	524905211	2015-0640	FACILITY BUILDING PAINTING (CORROSION PROTECTION PROGRA	3	4	59,910	100,000	100,000	100,000	100,000	100,000	400,000
			INFLUENT SCREEN (S) REPLACE/RETROFIT	5	5	0	2,000,000	2,000,000				
			EXISTING FACILITES CONDITION ASSESSMENT/PRE-DESIGN	5	5	0	75,000					



**SEWER UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
			SOUTH RAS SKIMMER RELOCATION	4	5	0	15,000	30,000				
	52540066		WETLANDS RESTORATION PROJECT	4	3	0			100,000			
			PROCESS CONTROL LAB ROOM	4	0	0	20,000					
			WASHER COMPACTOR FOR PRIMARY SLUDGE	4	0	0						250,000
			SECURITY CAMERAS	4	4	0	50,000					
			SCADA INSTRUMENTATION CONTROL IMPROVEMENTS	4	4	0	250,000					
11201	524905330	2015-0707	CHLORINE BUILDING ALARM SYSTEM	5	5	5,076	210,000					
11201	524905305	2015-0709	SCADA PHASE III CONSTRUCTION	5	5	3,782						
11201	524905280	2015-0710	REPLACEMENT OF MCC2A AT THE PRE-SEDIMENTATION BUILDING	5	5	59,522	700,000					
11201	524905284		DATA ENTRY AND REPORTING SYSTEM	5	5	332,021						
11201	524905334		UPGRADE EMERGENCY GENERATORS AT THE PUMP STATION	3	3	0						1,000,000
11201	524905329		NUTRIENT PROJECT PRE-DESIGN			186,695						
11201	52540053	2015-0708	ATMOSPHERIC MONITORING REPLACEMENT PROGRAM	5	5	13,024	25,000	25,000	25,000	25,000	25,000	100,000
11201	52540057	2016-1281	COGEN ENGINE OVERHAUL	5	5	700,000					700,000	
	52540064		VFD REPLACEMENT	5	5	181,509						
11201	52540052	2015-0500	TRICKLING FILTER REHABILITATION	5	4	0		2,000,000			2,000,000	2,000,000
11201	52540058	2015-0502	CAPITAL ASSET REHABILITATION AND UPGRADES	4	5	0	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	150,000				200,000		400,000
11201	52540061	2016-1277	REPLACEMENT OF CENTER COLUMN AND RECOATING SUPERSTR	4	4	145,368						
11201	52540062	2016-1138	HVAC REPLACEMENTS	3	3	15,629	25,000	25,000	25,000	25,000	25,000	100,000
			<b>NEW WATER RECLAMATION FACILITY</b>									
			NEW PLANT - CORE DESIGN-BUILD RECLAMATION FACILITY			0		15,400,000	26,700,000	39,800,000	104,700,000	302,700,000
	524905335		WRF MASTER PLAN IMPLEMENTATION - CAPITAL PROJECT SUPPO	5	5	321,433	1,500,000	1,500,000	1,500,000			
11201	524905271		NEW PLANT - BIOSOLIDS MECHANICAL DEWATERING (CONSTRUCT	3	0	0	6,400,000	12,000,000	5,000,000			
		2017-2050	NEW PLANT - PROFESSIONAL DESIGN SERVICES	5	5	0	9,000,000	12,000,000	5,000,000	4,000,000	3,000,000	3,000,000
		2017-2051	NEW PLANT - CM/GC DESIGN SERVICES	5	5	0	750,000	1,000,000	1,000,000			
		2017-2052	NEW PLANT - WATER RENEW PUBLIC OUTREACH	5	5	0	250,000	200,000	150,000	100,000	100,000	200,000
		2017-2054	NEW PLANT - PILOTING AND DEMONSTRATION TESTING	5	0	0	500,000	500,000				
11201	524905272	2015-0404	NEW PLANT - INFLUENT SCREENINGS (CONSTRUCTION)	5	4	0		8,000,000	12,000,000	10,000,000		
			<b>TOTAL NEW WATER RECLAMATION FACILITY</b>				18,400,000	50,600,000	51,350,000	53,900,000	107,800,000	305,900,000
			<b>TOTAL WATER RECLAMATION FACILITY</b>			2,173,968	23,310,000	56,080,000	52,900,000	55,550,000	111,950,000	621,250,000
	2730.14		<b>COLLECTION LINES</b>									
			<b>COLLECTION SYSTEM ASSET MANAGEMENT PROGRAM</b>									
10401	52510020	2015-0704	1200 WEST TRUNK LINE CONDITION ASSESSMEN/ PROJECT PRE-D	3	3	91,574						600,000
10401	525002742	2015-0664	SIPHON INSPECTION PROJECT	3	3	15,906					100,000	
10401	2015-0647	2015-0647	COLLECTION SYSTEM PROJECT DEVELOPMENT CAP SCOPING	5	5	0	100,000	100,000	100,000	100,000	100,000	400,000
10401	525002770	2015-0703	BECK STREET TRUNK LINE CONDITION ASSESSMENT/PRE-DESIGN	5	4	2,082,808				600,000		600,000
10401	525002771	2015-0705	ORANGE STREET TRUNK LINE CONDITION ASSESSMENT/PROJECT	5	4	141,895						500,000



**SEWER UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
						2,332,183	100,000	100,000	100,000	700,000	200,000	2,100,000
			<b><u>FLOW MONITORING/I&amp;I PROGRAM</u></b>									
10401	525002739	2015-0650	BASIN 3 INFLOW ELIMINATION PILOT PROJECT	5	5	327,439						
10401	525002756	2015-0648	WEST SIDE INFLOW & INFILTRATION STUDY	5	5	211,600						
10401	2015-0652	2015-0652	EAST SIDE INFLOW & INFILTRATION (I&I) STUDY	5	5	0				300,000		
10401	525002741	2015-0651	ANNUAL HYDRAULIC MODEL CALIBRATION	5	5	0		100,000	100,000	100,000	100,000	500,000
10401	525002740	2015-0649	PERMANENT FLOW METERS	5	5	135,202	350,000	250,000	250,000	250,000		
10401	525002755	2016-1249	BASIN 28 I&I ANALYSIS	4	4	320,068						
	2016-1266	2016-1266	PRIVATE LATERAL I&I STUDY	2	4	0		350,000				
			VARIOUS BASIN INFLOW TESTING	4	4	0		250,000	250,000	250,000	250,000	1,000,000
						994,309	350,000	950,000	600,000	900,000	350,000	1,500,000
			<b><u>CITY, COUNTY, STATE AND MISC. DRIVEN PROJECTS</u></b>									
10401	525002738	2015-0654	PRISON RELOCATION UTILITIES AND DEVELOPMENT SUPPORT	5	4	403,185						
10401	525002560	2015-0484	ANNUAL MISC. PUBLIC SERVICES PROJECTS	5	5	0	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	250,000	500,000	750,000				
	525002753		900 WEST - NORTH TEMPLE TO 950 SOUTH	5	5	340,349						
	525002760		WEST TEMPLE - NORTH TEMPLE TO 400 SOUTH	5	5	50,114	325,000					
10401	2016-1263	2016-1263	NW QUADRANT PRISON LIFT STATION	5	0	0		2,000,000	500,000			
			NW QUADRANT PUMP STATION (PS-2)			0		4,000,000	4,000,000			
10401	52520017	2015-0283	700 N I-15 BYPASS FOR INSPECTION OF EXISTING LINE	5	3	40,800	250,000					
10401	525002764	2016-0743	1300 EAST - SEWER	5	3	151,168	400,000					
10401	2016-1265	2016-1265	NW QUADRANT (DEVELOPMENT) PIPE UPSIZE SEWER	5	0	0						
10401	5.25E+08		WILMINGTON AVENUE SANITARY SEWER			9,621						
10401	525002759	2016-0893	SIMPSON AVE FROM HIGHLAND AVE TO 1300 E TO I-80 ON-RAMP C	5	5	133,183						
10401			MOUNTAIN VIEW CORRIDOR				250,000					
						1,378,420	1,925,000	6,950,000	4,700,000	200,000	200,000	1,000,000
			<b><u>PIPE RENEWAL &amp; REPLACEMENT PROGRAM</u></b>									
10401	525002699	2015-0676	800 W - FROM 200 N TO 241 N WEST SIDE	5	5	39,895						
10401	525002701	2015-0677	500 S - FROM 1600 E TO 1569 E	5	5	0						
10401	525002702	2015-0331	H STREET - NINTH AVENUE TO 575 NORTH	4	5	79,789						
10401	525002703	2015-0304	200 NORTH AT 200 WEST - SW CORNER TO SE CORNER	4	4	20,339						
10401	525002704	2015-0305	200 NORTH - WEST TEMPLE TO MAIN STREET	4	4	25,032						
10401	525002705	2015-0332	300 WEST - 500 NORTH TO 600 NORTH (WEST SIDE)	3	5	92,305	10,000					
10401	525002706	2015-0341	VILLAGE CIRCLE	3	5	85,265	10,000					
10401	525002707	2015-0342	CHICAGO STREET - SOUTH TEMPLE TO NORTH TEMPLE	3	5	45,370						
10401	525002708	2015-0333	WEST CAPITOL STREET - COLUMBUS STREET TO ZANE AVENUE T	3	5	86,830	10,000					
10401	525002709	2015-0334	EIGHTH AVENUE - D STREET TO E STREET	3	5	31,243						
10401	525002710	2015-0335	H STREET - EIGHTH AVENUE TO SEVENTH AVENUE TO I STREET	3	5	86,131						
10401	525002711	2015-0336	I STREET - SIXTH AVENUE TO TENTH AVENUE	3	5	128,289	12,000					
10401	525002712	2015-0337	SIXTH AVENUE - I STREET TO H STREET TO FIFTH AVE	3	5	63,362						
10401	525002713	2015-0338	DARWIN STREET - ZANE AVENUE TO GIRARD AVENUE	3	5	48,976						



**SEWER UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
10401	525002714	2015-0339	HAROLD GATTY DRIVE (525 N) - 5700 WEST TO 5780 WEST	3	5	58,940						
10401	525002715	2015-0340	ARAPEEN DRIVE - SUNNYSIDE AVENUE TO KOMAS DRIVE	3	5	95,419						
10401	525002721	2015-0346	PENNROSE DRIVE - MILITARY WAY TO PENNROSE DRIVE	3	5	57,420						
10401	525002720	2015-0347	900 EAST - SOUTH TEMPLE TO 100 SOUTH TO 800 EAST	3	5	126,663						
10401	525002720	2015-0348	900 EAST (WEST SIDE) 200 SOUTH TO 100 SOUTH TO WINDSOR CT	3	5	126,663						
10401	525002722	2015-0349	DOUGLAS STREET (WEST) - 300 SOUTH TO 200 SOUTH	3	5	82,645						
10401	525002723	2015-0351	KENSINGTON AVENUE - 600 EAST TO 700 EAST	3	5	39,895						
10401	525002724	2015-0352	WILSON AVENUE - 300 EAST TO 400 EAST	3	5	55,540						
10401	525002725	2015-0354	THIRD AVENUE - J STREET TO H STREET	3	5	61,054						
10401	525002726	2015-0355	FIRST AVENUE - C STREET TO E STREET	3	5	61,015						
10401	525002727	2015-0356	"B" STREET AT SOUTH TEMPLE	3	5	41,377						
10401	525002728	2015-0360	CANYON ROAD - THIRD AVENUE TO 270 NORTH	3	5	55,732						
10401	525001758	2015-0361	200 EAST AT 400 SOUTH - NW CORNER OF INTERSECTION	3	5	21,512						
10401	525002729	2015-0476	VIRGINIA STREET SEWER REHAB FROM FAIRFAX DR TO FEDERAL	3	5	0						
10401	525002730	2015-0714	500 E FROM 800 S TO 900 S	3	5	55,540						
10401	525002731	2015-0471	REDWOOD ROAD SEWER REHAB FROM 1400 NORTH TO 1690 NOR	3	5	221,238						
10401	525002732	2015-0328	J STREET SEWER REHAB FROM 500 NORTH TO 400 NORTH	3	4	25,670						
10401	525002666	2015-0474	1700 EAST SEWER REHAB FROM 1300 SOUTH TO HARRISON (1390	3	4	37,157						
10401	525002667	2015-0475	CHANDLER CIRCLE SEWER REHAB (PRIVATE AREA BACK OF PROF	3	4	35,983						
10401	525002733	2015-0673	ALLEY BETWEEN 1200 E AND ELIZABETH ST - 300 S TO 200 S	4	3	51,628						
10401	525002734	2015-0323	200 EAST - 400 SOUTH TO 500 SOUTH (EAST SIDE)	3	3	62,189						
10401	525002735	2015-0469	2700 SOUTH - 900 EAST TO GREEN STREET	3	3	276,969						
10401	525002367	2015-0301	INDEPENDENCE BOULEVARD MIAMI ROAD	1	1	41,459						
10401		2015-0486	1% PER YEAR SEWER REHABILITATION/SYSTEM RENEWAL	5	5	0		2,650,000	2,650,000	2,650,000	3,000,000	16,200,000
			OMNI AND STARCREST	3	5	0	35,000					
10401	2016-0834	2016-0834	1300 SOUTH SEWER REHAB FROM 600 TO 500 WEST	5	5	0						2,000,000
10401	525002772	2015-0725	WEST CAPITOL ST - 490 N TO 520 N	5	5	9,675	55,000					
10401	525002773	2015-0726	CENTER ST - 425 N TO 500 N	5	5	16,358	30,000					
10401	525002774	2015-0728	ALLY BETWEEN LAKE ST AND 800 E MH 02282 - 02460	5	5	21,600	65,000					
10401	525002775	2015-0729	1ST AVE - 350 E TO 320 E	5	5	9,945	65,000					
10401	525002776	2015-0730	3RD AVE - F ST TO E ST	5	5	6,075	32,000					
10401	525002719	2015-0303	NORTH TEMPLE (100 N) - APPROX. 2050 WEST TO GLADIOLA STRE	5	4	0	150,000	1,000,000	1,000,000			
10401	2015-0468	2015-0468	WEST TEMPLE - TRUMAN AVE TO 1300 SOUTH	5	4	0			2,873,409			
10401	2015-0722	2015-0722	TESORO SEWER TRUNK LINE REHABILITATION	5	4	0				6,000,000		
10401	525002779	2015-0308	500 SOUTH - MARCH STREET (2935 W) TO 3025 WEST	4	5	43,125	100,000					
10401	525002744	2016-0833	2300 EAST SEWER REHAB FROM EAST TO WEST SIDE OF FOOTHIL	4	5	3,000	32,000					
10401	2016-0902	2016-0902	800 S AND 1100 E LATERAL CONNECTIONS AND UPSTREAM INFILT	3	4	0			46,500			
10401	525002629	2015-0344	REDWOOD ROAD - PAXTON AVENUE TO CALIFORNIA AVENUE	3	5	22,500	80,000					
10401	525002780	2016-0840	4600 WEST DIVERSION I&I MITIGATION PROJECT	4	4	83,354	350,000	1,200,000				
10401	525002630	2015-0679	CALIFORNIA AVENUE - REDWOOD ROAD TO UTAH STREET	3	5	65,865						
10401	2016-0873	2016-0873	DOOLEY COURT	3	5	0	10,000	55,000				
		2017-2130	1200 WEST TRUNK LINE REHABILITATION PROJECT	5	4	0		350,000	6,000,000	6,000,000		
10401		2016-0908	3RD AVE D TO E STREET	3	5	0	15,000	140,000				20,000



**SEWER UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
10401		2015-0731	MAIN ST - 320 N TO 340 N	4	5	0	15,000	110,000				13,000
10401	525002355	2016-0861	6TH AVE FROM 588 E TO H ST	4	5	0	18,000	180,000				36,000
10401		2016-0989	2600 EAST AND BLAINE AVE REHABILITATION	3	5	0	15,000	150,000				20,000
10401		2016-0991	CIPP SEWER ON FOOTHILL DR	3	5	0	10,000	110,000				18,000
10401		2016-0992	WASATCH DR FROM 1300 SOUTH TO VILLAGE CIRCLE SEWER REH	3	5	0	25,000	260,000				11,000
10401		2016-0993	FOOTHILL DR AND 1300 SOUTH SEWER REHAB	3	5	0	10,000	70,000				21,000
10401		2016-0995	LOGAN WAY AND 1700 SOUTH SEWER REHAB	3	5	0	10,000	75,000				12,000
10401		2016-0997	700 EAST FROM 2700 SOUTH TO CRYSTAL AVE SEWER REHAB	3	5	0	11,000	105,000				22,000
10401		2016-0998	600 WEST 100 SOUTH SEWER REHAB	3	5	0	15,000	150,000				20,000
10401		2016-1001	BROADMOOR ST FROM ELM AVE TO 2100 SOUTH SEWER REHAB	3	5	0	10,000	55,000				36,000
10401		2016-1002	2300 EAST FROM STRINGHAM AVE TO BERNADINE DR SEWER REH	3	5	0	5,000	30,000				16,000
10401		2016-1003	LYNWOOD DR SEWER REHAB	3	5	0	10,000	75,000				23,000
10401		2016-1004	2300 EAST AND COUNTRY CLUB DRIVE SEWER REHAB	3	5	0	5,000	40,000				22,000
10401		2016-1005	WILSHIRE CIRCLE SEWER REHAB	3	5	0	15,000	155,000				24,000
10401		2016-1008	P STREET FROM 4TH AVE TO 3RD AVE SEWER REHAB	3	5	0	10,000	40,000				24,000
10401		2016-1009	1ST AVE FROM T STREET TO U STREET SEWER REHAB	3	5	0	15,000	140,000				22,000
10401		2016-1011	1200 EAST FROM FENWAY AVE TO 700 SOUTH SEWER REHAB	3	5	0	5,000	35,000				21,000
10401		2016-1012	FULLER AVE FROM 1000 EAST TO 1100 EAST SEWER REHAB	3	5	0	5,000	40,000				20,000
10401		2016-1013	500 SOUTH AND 1300 EAST SEWER REHAB	3	5	0	5,000	25,000				15,000
10401		2016-1014	600 SOUTH 1300 EAST SEWER REHAB	3	5	0	5,000	35,000				18,000
10401		2016-1016	1200 EAST AND 700 SOUTH SEWER REHAB	3	5	0	5,000	30,000				19,000
10401		2016-1017	SUNNYSIDE AVE FROM CONNOR ST TO 2200 EAST SEWER REHAB	3	5	0	5,000	40,000				23,000
10401		2016-1018	MICHIGAN AVE AND FOOTHILL BLVD SEWER REHAB	3	5	0	5,000	15,000				10,000
10401		2016-1019	FOOTHILL DRIVE AND 2100 EAST SEWER REHAB	3	5	0	10,000	90,000				19,000
10401		2016-1020	LAIRD AVE SEWER REHAB	3	5	0	20,000	170,000				9,000
10401		2016-1021	BROWNING AVE AND 1700 EAST	3	5	0	5,000	30,000				14,000
10401		2016-1024	LOGAN AVE SEWER REHAB	3	5	0	10,000	100,000				19,000
10401		2016-1026	1600 EAST FROM LOGAN AVE TO 1700 SOUTH SEWER REHAB	3	5	0	5,000	35,000				20,000
10401		2016-1028	1900 EAST FROM 800 SOUTH AND 900 SOUTH SEWER REHAB	3	5	0	5,000	25,000				17,000
10401		2016-1030	HARVARD AVE AND MCCLELLAND SEWER REHAB	3	5	0	5,000	35,000				18,000
10401		2016-1031	BACKLOT BETWEEN PAXTON AVE AND FREMONT AVE SEWER REH	3	5	0	5,000	35,000				18,000
10401		2016-1032	800 SOUTH FROM 700 EAST TO LAKE ST SEWER REHAB	3	5	0	10,000	60,000				17,000
10401		2016-1035	2700 SOUTH AND IMPERIAL ST SEWER REHAB	3	5	0	5,000	20,000				7,000
10401		2016-1036	JUDITH ST BETWEEN ZENNITH AVE AND HUDSON AVE SEWER REH	3	5	0	5,000	20,000				10,000
10401		2016-1038	HOLLYWOOD AVE FROM 900 EAST TO LINCOLN ST SEWER REHAB	3	5	0	5,000	40,000				22,000
10401		2016-1039	2100 SOUTH FROM 1900 EAST TO PRESTON ST SEWER REHAB	3	5	0	5,000	35,000				18,000
10401		2016-1099	D STREET FROM FIRST AVE TO SECOND AVE SEWER REHAB	3	5	0	10,000	90,000				13,000
10401		2016-1087	1700 SOUTH AND 1700 EAST SEWER REHAB	3	4	0			75,000			12,000
			<b>POINT REPAIR PROGRAM (VARIOUS LOCATIONS)</b>									
10401	525002690	2015-0477	POINT REPAIRS IN SUPPORT OF CIPP PROGRAM (VARIOUS LOCAT	3	5	0		350,000	350,000	350,000	350,000	1,400,000
10401	525002782	2016-0898	3620 WEST 500 SOUTH POINT REPAIR	4	4	6,000	150,000					
			<b>TOTAL COLLECTION LINES</b>			2,812,032	1,550,000	8,495,000	12,994,909	15,000,000	3,350,000	44,262,482



**SEWER UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
			<b>MANHOLE REHAB PROGRAM (VARIOUS LOCATIONS)</b>									
10401		2015-0478	MANHOLE REHAB PROGRAM (VARIOUS LOCATIONS)	4	5	0		350,000	350,000	350,000	350,000	1,400,000
			500 SOUTH SURPLUS SIPHON VAULT REPLACEMENT (MH 05225)	5	5	0	400,000					
			LEE DRAIN SIPHON VAULT REPLACEMENT (MH 05234)	5	5	0	400,000					
						0	800,000	350,000	350,000	350,000	350,000	
			<b>OTHER PROJECTS</b>									
10401	2015-0376	2015-0376	ON-CALL TASK ORDER GENERAL CONSTRUCTION SERVICES (VAR	5	5	300,000	300,000	300,000	300,000	300,000	300,000	1,200,000
10401	52520035	2015-0485	CONTRIBUTIONS BY DEVELOPERS	5	5	0	500,000	500,000	500,000	500,000	500,000	2,000,000
	52510022	2016-0850	SHURTLEFF AND ANDREWS DUE DILIGENCE SURVEY	5	5	50,000						
	52510023	2016-1267	COLLECTION SYSTEM PROJECTS GENERAL SUPPORT - TASK 2	5	0	716,393	1,500,000	1,500,000	750,000			
	525002786		PROGRAM MANAGEMENT SERVICES - TASK 1			0	350,000	350,000	200,000			
10401	52490783	2016-0747	COLLECTION SYSTEM H2S MITIGATION IMPLEMENTATION PROJEC	2	0	321,729						
		2016-0839	TDS REDUCTION PROGRAM	1	0	0				200,000		
			RENEW PUBLIC OUTREACH PROGRAM (COLLECTIONS)			0						
						1,388,122	2,650,000	2,650,000	1,750,000	1,000,000	800,000	3,200,000
			<b>MASTER PLAN IMPLEMENTATION PROGRAM</b>									
10401	5.25E+08		GLADIOLA STREET			4,939,422						
10401	525002528		8 PERMANENT FLOW MONITORS PER MASTER PLAN			0						
10401	525002524	2015-0279	500 SOUTH INTERCEPTOR - ORANGE TO 1000 WEST	5	5	16,201,016	2,000,000					
10401	525002576		ORANGE STREET NO TEMPLE TO 5TH SOUTH PHASE II----BOND			0						
10401	525002698	2015-0286	MP12A - 700 SOUTH CAPACITY UPGRADES - 4650 WEST TO 3400 W	5	5	2,295,601	12,500,000					
10401	52490785	2016-1260	500 SOUTH DIVERSION, PHASE II (PUMP STATION)	5	5	6,272,245	7,000,000					
10401		2016-0950	MP13 - BECK STREET TRUNK REPLACEMENT FROM 500 SOUTH AN	5	5	0		1,500,000	6,000,000	11,000,000		
10401	525002376		1800 NORTH BECK STREET TO THE PRETREATMENT PLANT			473,372	2,500,000	12,000,000	7,000,000			
10401	525002423	2015-0320	MP8A - 1500 SOUTH - 2700 WEST TO REDWOOD ROAD	4	5	59,791	7,800,000					
10401	525002631	2015-0280	ORANGE STREET - PHASE IV - INDIANA TO 1500 SOUTH	5	4	400,335			800,000	5,331,000		
10401	52490787	2015-0269	MP12D - 700 SOUTH LIFT STATION (SS 10)	5	4	1,535,830	12,000,000	4,000,000				
10401	525002518	2016-0926	MP11 - STATE STREET AND 500 SOUTH DIVERSION IMPROVEMENT	5	4	847,313						
10401	2016-0929	2016-0929	MP16 - 600 WEST AND 700 SOUTH TO 500 WEST AND 800 SOUTH	5	4	0					1,400,000	
10401	525002577	2016-0849	MP15 - 700 SOUTH INTERCEPTOR CAPACITY UPGRADE	4	4	508,500	350,000	450,000				
10401	525002584	2016-0905	MP7 - 100 SOUTH 1200 EAST DIVERSION FOR CAPACITY	4	4	28,500						300,000
10401	2016-0943	2016-0943	MP22 - PIONEER ROAD FROM CALIFORNIA AVENUE TO 1500 SOUTH	4	4	0				40,000	350,000	1,000,000
10401	525002507	2015-0321	MP8B - 3230 WEST - 1820 SOUTH TO 1670 SOUTH	3	4	247,194	250,000		250,000	1,000,000		
10401	2016-0955	2016-0955	MP33 - 1300 EAST FROM 400 SOUTH TO 500 SOUTH	3	3	0			300,000			
						33,809,119	44,400,000	17,950,000	14,350,000	17,371,000	1,750,000	520,896,850
			<b>Total Collection System</b>			42,714,185	51,775,000	37,445,000	34,844,909	35,521,000	7,000,000	572,959,332
			<b>LANDSCAPING</b>									
10401	2730.20 5.25E+08		NORTHWEST OIL DRAIN			0	300,000					



**SEWER UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
						0	300,000	0	0	0	0	0
			<u>TOTAL CAPITAL IMPROVEMENTS</u>			45,127,637	80,410,000	93,970,000	89,419,909	92,511,000	119,080,000	1,200,925,332



**SEWER UTILITY CAPITAL PURCHASES BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	DELAYED
	2710.10		<u>LAND</u>														
10401		2015-0481	500 SOUTH LAND PURCHASE	5	5	0	4,100,000										
10401			LAND EASEMENT FOR 700 SOUTH SEWER LINE	4	4	0											
10401		2016-0887	SHURTLEFF AND ANDREWS SECONDARY ACCESS	4	4	0	500,000										
10401			LAND EASEMENT FOR 500 SOUTH MP PROJECT TO ORANGE ST	4	4	0		1,000,000									
10401		2016-0870	EASEMENT NORTH OF OQUIRRH DR	4	4	0											43,000
						0	4,600,000	1,000,000	0	0	0	0	0	0	0	0	43,000
						1,040,000	5,650,000	500,000	0	0	0	0	0	0	0	43,000	
	2750.10		<u>AUTOMOBILES &amp; TRUCKS</u>														
12201			Electric Club Car Qty. 4			64,000											
10801			Transit Van w/Upfit			37,400											
10101			3/4 Ton Truck w/Service Body 4X4			37,500											
10601		3387	Int. 1 ton Cab-n-Chassis w/ Dump Bed				32,500										
10101		36910	GMC 3/4 ton Ext Cab Pick-up Truck				29,500										
11201		3418	Chev 3/4 ton Ext Cab Pick-up Truck				29,500										
11201		3425	Chev 1 ton Cab-n-Chassis Util. Bed & Crane				42,500										
11201		3488	GMC 1/2 ton Cab-n-Chassis w/ Utility Body				32,500										
12201		49/63/58/62	Golf Cart Enclosed Cab Dump Bed Qty 4				56,000										
12301			VARIOUS					100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	500,000
						138,900	222,500	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	500,000
	2750.30		<u>FIELD MAINTENANCE EQUIP.</u>														
10601			BACKHOE EXCHANGE			9,000	8,000	8,000	8,000								
10801			REHAB OLD CCTV VAN							10,000	10,000	10,000	10,000	10,000	10,000	10,000	50,000
10601			VARIOUS					400,000	400,000								
10601			PUMP TRUCK - LARGE DIAMETER PIPE CLEANING MACHINE							400,000	400,000	400,000	400,000	400,000	400,000	400,000	2,000,000
10601			Cat Backhoe Buyback Program				9,000										
11201			40 Ton Rough Terrain Crane for Water Rec				500,000										
						9,000	517,000	408,000	408,000	410,000	410,000	410,000	410,000	410,000	410,000	410,000	2,050,000
	2760.20		<u>TREATMENT PLANT EQUIPMENT</u>														
12201			COMPRESSORS AND BLOWERS					70,000	70,000								
12201			PUMPS					150,000	150,000								
11201			AERATION BASIN DRAINAGE PUMP REPLACEMENTS (10)				100,000										
11201			REPLACEMENT #2 WATER PUMP				100,000										
11201			PUMP PLANT GRIT PUMP REPLACEMENT (2)				20,000										
11201			SUPPLIED AIR SYSTEM REPLACEMENT CL2 BLDG				20,000										
11201			DIGESTER ROOF WALK WAY IMPROVEMENTS				10,000										
11201			HVAC REPLACEMENTS (3)				120,000										
11101			XPE205 METTLER TOLEDO ANALYTICAL BALANCE						70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	350,000
11101			LACHAT/HATCH 2-CHANNEL FIA + IC CONFIGURATION						150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	750,000
12201			VARIOUS														
						0	370,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	1,320,000
	2760.30		<u>TELEMETERING EQUIPMENT</u>														
11201	52540048		TELEMETERING UPGRADE - REPLACE							10,000	10,000	10,000					10,000
10101			SCADA SYSTEM REPLACE				10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	50,000
						0	10,000	10,000	10,000	20,000	20,000	20,000	10,000	10,000	10,000	10,000	80,000
	2760.50		<u>OFFICE FURNITURE &amp; EQUIPMENT</u>														
11301			Server replacement "SLCINWRDB"				9,000										
11701			Core Switch			5,400											
12401			FULL FUNCTION PRINTER REPLACEMENT PRE-TREATMENT SMALL				5,000										



**SEWER UTILITY CAPITAL PURCHASES BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	DELAYED
12201			VARIOUS				20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	100,000
						5,400	34,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	100,000
	2760.90		OTHER NON-MOTIVE EQUIPMENT														
10601			TOW ALONG CEMENT MIXER							10,000	10,000	10,000	10,000	10,000	10,000	10,000	50,000
12201			STATIONARY SAMPLER W/ENCLOSURE					10,000	10,000								
12401			VARIOUS NON-MOTIVE EQUIPMENT					150,000	150,000								
12201			UPGRADE LAB ANALYTICAL EQUIPMENT							150,000	150,000	150,000	150,000	150,000	150,000	150,000	750,000
12201			Washer Compactor for Primary Sludge Screens			110,000											
10601			Vanguard System			28,000											
10601			HANDHELD RADIO REPLACEMENT				57,000										
10801			REPLACEMENT PUSH CAMERA				11,000										
10801			NEW LATERAL LAUNCH ADD ON SYSTEM				95,000										
11101			LABORATORY SPECTROPHOTOMETER REPLACEMENT				5,000										
11101			LABORATORY DIGITAL BALANCE REPLACEMENT				5,000										
11401			SURVEY GRADE GPS UNIT				20,000										
						138,000	193,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	800,000
			<b>TOTAL CAPITAL OUTLAY</b>			<b>291,300</b>	<b>5,946,500</b>	<b>1,918,000</b>	<b>918,000</b>	<b>930,000</b>	<b>930,000</b>	<b>930,000</b>	<b>920,000</b>	<b>920,000</b>	<b>920,000</b>	<b>920,000</b>	<b>4,850,000</b>
			<b>Criticality Legend:</b>														
			5. Significant number of customers or critical facilities affected														
			4. Some customers affected														
			3. Service restored with repair/redundant means in 8-24 hours														
			2. Moderate - Minimal impact if asset fails														
			1. Low, loss of facility, has no impact if fails														
			<b>Condition Legend:</b>														
			5. Failed or failing. Repair immediate or in 1 year														
			4. Failure expected in 1-5 years. Fix in 1-5 years														
			3. Deteriorating but service not threatened.														
			2. Good														
			1. New or like new														







**STORMWATER UTILITY  
ENTERPRISE FUND  
BUDGET SUMMARY  
FY 2019-2021**

SOURCES	ACTUAL 2016-17	AMENDED BUDGET 2017-18	PROJECTED ACTUAL 2017-18	Rate increase 10%	Rate increase 6%	Rate increase 4%
				PROPOSED BUDGET 2018-19	FORECAST BUDGET 2019-20	FORECAST BUDGET 2020-21
REVENUES						
METERED SALES	\$ 8,421,072	\$ 8,050,000	\$ 8,050,000	\$ 8,855,000	\$ 9,386,300	\$ 9,761,752
INTEREST INCOME	79,151	65,820	65,820	33,000	8,000	13,000
OTHER REVENUES	23,800	1,000	1,000	1,000	1,000	1,000
TOTAL REVENUES	\$ 8,524,023	\$ 8,116,820	\$ 8,116,820	\$ 8,889,000	\$ 9,395,300	\$ 9,775,752
OTHER SOURCES						
GRANTS & OTHER RELATED REVENUES	511,240	516,000	516,000	650,000	516,000	516,000
COUNTY FLOOD CONTROL	-	-	-	-	-	-
IMPACT FEES	382,785	200,000	200,000	200,000	200,000	200,000
SHORT-TERM FINANCING	-	-	-	1,345,000	-	-
BOND PROCEEDS	-	-	-	-	5,300,000	-
TOTAL OTHER SOURCES	\$ 894,025	\$ 716,000	\$ 716,000	\$ 2,195,000	\$ 6,016,000	\$ 716,000
TOTAL SOURCES	\$ 9,418,048	\$ 8,832,820	\$ 8,832,820	\$ 11,084,000	\$ 15,411,300	\$ 10,491,752
EXPENSES & OTHER USES						
EXPENDITURES						
PERSONNEL SERVICES	\$ 2,325,324	\$ 2,540,766	\$ 2,540,766	2,872,608	\$ 2,930,061	\$ 2,988,662
OPERATING & MAINTENANCE	112,974	179,350	179,350	186,450	189,979	193,774
TRAVEL & TRAINING	6,074	13,000	13,000	12,750	13,005	13,264
UTILITIES	180,298	205,021	205,021	244,045	248,925	253,902
TECHNICAL SERVICES	600,761	1,580,720	1,580,720	1,395,133	1,184,636	1,194,329
PUBLIC SERVICES / STREET SWEEPING	819,605	819,605	819,605	819,605	835,997	852,717
DATA PROCESSING	249,442	235,000	235,000	239,700	244,494	249,384
FLEET MAINTENANCE	182,974	214,000	214,000	214,000	218,280	222,645
ADMINISTRATIVE SERVICE FEE	126,088	130,000	130,000	130,000	132,600	135,252
PAYMENT IN LIEU OF TAXES	160,102	109,785	109,785	125,942	128,461	131,030
BILLING COST	423,849	404,980	404,980	554,117	565,199	576,503
BONDING NOTE EXPENSE	2,181	-	-	-	-	-
RISK MANAGEMENT	2,546	86,983	86,983	86,983	88,723	90,496
TRANSFERS TO GENERAL FUND	2,769	4,000	4,000	4,000	4,080	4,162
OTHER CHARGES AND SERVICES	69,701	25,250	25,250	27,899	28,066	28,623
TOTAL EXPENDITURES	\$ 5,264,688	\$ 6,548,460	\$ 6,548,460	\$ 6,913,232	\$ 6,812,506	\$ 6,934,743
OTHER USES						
CAPITAL OUTLAY	163,129	310,390	210,390	515,568	316,000	460,000
CAPITAL IMPROVEMENT BUDGET	3,714,981	6,132,667	3,101,548	5,133,500	5,301,000	2,847,000
DEBT SERVICES	1,017,890	1,010,724	1,010,180	1,014,000	2,518,000	1,258,000
TOTAL OTHER USES	\$ 4,896,000	\$ 7,453,781	\$ 4,322,118	\$ 6,663,068	\$ 8,135,000	\$ 4,565,000
TOTAL USES	\$ 10,160,688	\$ 14,002,241	\$ 10,870,578	\$ 13,576,300	\$ 14,947,506	\$ 11,499,743
EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES						
				\$ (742,640)	\$ (5,169,421)	\$ (2,037,758)
				\$ (2,492,300)	\$ 463,794	\$ (1,007,991)
OPERATING CASH BALANCES						
BEGINNING JULY 1	\$ 6,058,717	\$ 5,316,077	\$ 5,316,077	\$ 3,278,319	\$ 786,019	\$ 1,249,813
ENDING JUNE 30	\$ 5,316,077	\$ 146,656	\$ 3,278,319	\$ 786,019	\$ 1,249,813	\$ 241,822
Cash Reserve Ratio	101%	2%	50%	11%	18%	3%
Cash reserve goal above 10%						



**STORMWATER UTILITY  
CASH FLOW  
FY 2019 BUDGET  
AND FY 2020-2023 FORECAST**

	ACTUAL YEAR 2015-2016	ACTUAL YEAR 2016-2017	PROJECTED YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-2023
STORMWATER CHARGES	8,216,974	8,421,072	8,050,000	8,855,000	9,386,300	9,761,752	10,152,222	10,152,222
OTHER INCOME	24,304	23,800	1,000	1,000	1,000	1,000	1,000	1,000
INTEREST INCOME	45,010	79,151	65,820	33,000	8,000	13,000	3,000	9,000
OPERATING INCOME	8,286,288	8,524,023	8,116,820	8,889,000	9,395,300	9,775,752	10,156,222	10,162,222
OPERATING EXPENDITURES	(5,087,502)	(5,264,688)	(6,548,460)	(6,913,232)	(6,812,506)	(6,934,743)	(7,059,445)	(6,636,629)
NET INCOME EXCLUDING DEP.	3,198,786	3,259,335	1,568,360	1,975,768	2,582,794	2,841,009	3,096,777	3,525,593
IMPACT FEES	133,624	382,785	200,000	200,000	200,000	200,000	200,000	200,000
SHORT-TERM FINANCING				1,345,000				
NET BOND PROCEEDS	0	0			5,300,000			
COST OF ISSUANCE (PROCEEDS)				10,000	30,000	0	0	0
COST OF ISSUANCE (EXP.)				(10,000)	(30,000)	0	0	0
OTHER CONTRIBUTIONS	423,185	511,240	516,000	650,000	516,000	516,000	516,000	516,000
CAPITAL OUTLAY	(38,978)	(163,129)	(210,390)	(515,568)	(316,000)	(460,000)	(395,000)	(260,000)
SHORT-TERM DEBT					(1,423,000)			
DEBT SERVICE (NEW)	0		0	0	(83,000)	(247,000)	(247,000)	(247,000)
DEBT SERVICE	(1,011,772)	(1,017,890)	(1,010,180)	(1,014,000)	(1,012,000)	(1,011,000)	(1,014,000)	(163,000)
OTHER INCOME & EXPENSE	(493,941)	(286,994)	(504,570)	665,432	3,182,000	(1,002,000)	(940,000)	46,000
FOR CAPITAL	2,704,845	2,972,341	1,063,790	2,641,200	5,764,794	1,839,009	2,156,777	3,571,593
CAPITAL IMPROVEMENTS	(3,452,581)	(3,714,981)	(3,101,548)	(5,133,500)	(5,301,000)	(2,847,000)	(1,521,000)	(1,273,000)
BEGINING CASH BALANCE	6,806,453	6,058,717	5,316,077	3,278,319	786,019	1,249,813	241,822	877,599
CASH INCREASE/(DECREASE)	(747,736)	(742,640)	(2,037,758)	(2,492,300)	463,794	(1,007,991)	635,777	2,298,593
ENDING BALANCES	6,058,717	5,316,077	3,278,319	786,019	1,249,813	241,822	877,599	3,176,192
DEBT SERVICE COVERAGE	3.16	3.20	1.55	1.95	1.03	2.26	2.46	8.60
RATE CHANGE	0%	0%	0%	10%	6%	4%	4%	0%
Cash Reserve Ratio	119%	101%	50%	11%	18%	3%	12%	48%
Minimum Reserve	508,750	526,469	654,846	691,323	681,251	693,474	705,945	663,663
Ending Reserve Available for Capital	5,549,967	4,789,608	2,623,473	94,696	568,562	(451,652)	171,654	2,512,529



# STORMWATER CIP BUDGET FY 2019 -2023

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
53-10301	2720.05		<b>LIFT STATIONS</b>									
10301	53471041		LEE DRAIN LIFT STATION - GATE REPLACEMENT	5	5	40,000						
10301	53471046	2015-0434	LIFT STATION REHABILITATION AT 400 WEST AND 1300 SOUTH - NORT	5	4	0		400,000				
10301	53470852		LIFT STATION AT SURPLUS CANAL AND INDIANA REPAIRS	4	5	50,000						
10301	53471040		SWEDE TOWN LIFT STATION	3	0	46,132	700,000					
10301	53471049	2015-0435	VARIOUS PUMP STATIONS	5	5	17,000	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	2015-015	2015-0135	SD LIFT STATION AT 650 WEST AND 500 NORTH IMPROVEMENTS	4	4	9,808			14,000			107,500
10301	53471045	2015-0139	200 SOUTH LIFT STATION - PINCH VALVE REPLACEMENT - SP	4	3	60,000						
10301	2015-015	2015-0147	LIFT STATION REHABILITATION AT PAXTON AND 700 WEST	3	2	0						297,000
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
						\$ 222,940	\$ 750,000	\$ 450,000	\$ 122,000	\$ 50,000	\$ 50,000	\$ 504,500
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	11,935	60,000					700,000
	53470974		ORANGE STREET STORM DRAIN - NORTH TEMPLE TO I-80	5	0	45,000		255,000				
	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			
		2017-2100	PIPE REPLACEMENT AT 750 S 1100 EAST	4	5	0	20,000					
	53470969	2016-0746	ABANDONMENT OF STORMWATER DITCH FROM WARM SPRINGS ROA	4	4	10,000		60,000	400,000			
		2017-2098	PIPE REPLACEMENT AT 746 SOUTH ELIZABETH	3	5	0	35,000					
	53470904	2015-0126	700 WEST - 2100 SOUTH TO 1700 SOUTH - PIPING OF OPEN DITCH	4	3	20,000						800,000
		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	7,500	42,500					
	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	
		2016-0750	1700 SOUTH STORM DRAIN, FROM 2100 EAST TO EMIGRATION CREEK	3	0	0	800,000	2,000,000				
		2015-0585	600 EAST - 900 SOUTH TO THE AVENUES	2	0	0						4,200,000
						\$ 94,435	\$ 957,500	\$ 2,315,000	\$ 720,000	\$ 21,000	\$ 373,000	\$ 6,521,500
			<b>CITY, COUNTY, STATE AND MISC. DRIVEN PROJECTS</b>									
	53470979		PROGRAM MANAGEMENT TOOLS	5	5	0	115,000					
10301	53470947	2016-0736	INDIANA AVENUE STORM DRAIN REDWOOD ROAD TO 3400 WEST	4	0	881,139						
10301	53470975		BERKLEY STREET - 2100 SOUTH TO WILMINGTON			0						20,000
10301	53470968		GLENDALE/800 SOUTH - 700 SOUTH TO INDIANA			10,000						
10301	53470972		GLADIOLA AVE PHASE 1 - 500 SOUTH TO 900 SOUTH			161,230	865,000					
10301	53470946	2015-0436	STORM DRAIN CITY/COUNTY/STATE PROJECTS	5	5	250,000		150,000	150,000	150,000		
10301		2017-2033	STORMWATER RECIEVING STATION	4	4	0	60,000					
10301	53470971	2016-0741	1300 EAST - STORM DRAIN	3	4	345,000	986,000	986,000				
		2016-0848	CND CURB AND GUTTER REPAIR	2	5	0						
10301			CONCORD STREET - 1000 SOUTH TO 1150 SOUTH			0						200,000
						\$ 1,647,369	\$ 2,026,000	\$ 1,136,000	\$ 150,000	\$ 150,000	\$ -	\$ 220,000



# STORMWATER CIP BUDGET FY 2019 -2023

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
			<b>PUBLIC UTILITY DEFINED PROJECTS</b>									
10301	53470943	2015-0723	SURPLUS CANAL ENCROACHMENT AND PERMITTING	5	5	0	25,000	50,000	50,000	50,000	50,000	
	53470949	2016-1200	CLEAN OUT REHABILITATION 2018/19	4	5	82,000	75,000	100,000	100,000	100,000	100,000	
10301	53470977		NORTHWEST DRAIN - IMPROVE BOOM DEPLOYMENT LOCATION AT BO	5	3	15,000						
10301		2016-1270	URBAN WETLAND TREATMENT FACILITY AT FAIRMONT PARK - PRE-DE	3	0	0						20,000
10301		2016-0854	GREEN INFRASTRUCTURE AT HOOTEN BUILDING -ROOF DRAIN INFILT	2	0	0			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
10301						\$ 197,000	\$ 100,000	\$ 250,000	\$ 280,000	\$ 150,000	\$ 150,000	\$ 1,020,000
10301			<b>RIPARIAN CORRIDOR PROJECTS</b>									
10301	534926		EMIGRATION IMPROVEMENTS @ BONNEVILLE GOLF COURSE R03A,R03B,R04,R05A,R05B	4	4	327,000						
10301	53473027	2015-0138	WQ - ROTARY PARK RCO IMPROVEMENTS AND WATER QUALITY FEAT		3	0			250,000			
10301		2017-2087	BONNEVILLE GC RIPARIAN PROJECT - PHASE 2 & 3 - DESIGN	4	3	0			200,000			
10301		2017-2086	BONNEVILLE GC RIPARIAN PROJECT - PHASE 1 - CONSTRUCTION	4	3	0			500,000			
			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
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	357,805	500,000	500,000				
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				
						\$ 684,805	\$ 500,000	\$ 550,000	\$ 975,000	\$ 550,000	\$ -	\$ 2,043,500
			<b>LOCAL AREA PROJECTS ( * WORK BY CITY CREWS)</b>									
10301	534740023	2015-0437	VARIOUS PROJECTS	5	5	170,000	100,000	100,000	100,000	100,000	200,000	
10301	534740053	2015-0439	AVENUE CROSSWALKS / SID VARIOUS STREETS -DIP STONE REPLAC	3	4	42,500	50,000	50,000	50,000	50,000	50,000	
10301	534740053	2015-0440	AVENUE CROSSWALKS AND ADA RAMPS	3	0	42,500	50,000	50,000	50,000	50,000	50,000	
10301	534740054	2015-0438	CONTRIBUTIONS BY DEVELOPERS	3	0	0	400,000	400,000	400,000	400,000	400,000	
						\$ 255,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 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 WES	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



**STORMWATER CIP BUDGET  
FY 2019 -2023**

COST CENTER	PROJECT NUMBER	CAP REQUEST NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
		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
		2016-0780	MP39 NEW DETENTION BASIN	3	3	0						225,100
		2016-0815	MP89 NEW STORM DRAIN COLLECTOR	3	3	0						243,348
		2016-0782	MP42 REDWOOD ROAD AND CWA NO. 4	3	3	0						321,100
		2016-0777	MP36 LEE DRAIN IMPROVEMENTS	3	3	0						333,200
		2016-0771	MP24 200 EAST IMPROVEMENTS	3	3	0						333,548
		2016-0812	MP85 PIPE UPSIZE	3	3	0						360,300
		2016-0761	MP7 400 SOUTH PUMP STATION	3	3	0						378,500
		2016-0804	MP74 PIPE UPSIZE	3	3	0						387,000
		2016-0765	MP15 LIBERTY PARK DETENTION BASIN	3	3	0						391,899
		2016-0793	MP57 BRIGHTON DRAIN CHANNEL IMPROVEMENTS	3	3	0						
		2016-0769	MP20 DETENTION BASIN - 800 SOUTH 4050 WEST	3	3	0						455,000
		2016-0810	MP83 LAURELHURST DRIVE IMPROVEMENTS	3	3	0						501,000
		2016-0773	MP28 I STREET CONDUIT	3	3	0						502,986
		2016-0772	MP27 BRIGHTON DRAIN CHANNEL IMPROVEMENTS	3	3	0						561,400
		2016-0792	MP56 1500 EAST STORM DRAIN	3	3	0						562,000
		2016-0778	MP37 NEW CHANNEL AND DETENTION BASIN	3	3	0						609,000
		2016-0786	MP49 500 SOUTH IMPROVEMENTS	3	3	0						635,592
		2016-0767	MP17 DETENTION BASIN AND CHANNEL	3	3	0						714,000
		2016-0766	MP16 CHANNEL TO I-80 INTERCHANGE	3	3	0						718,200
		2016-0791	MP54 CWA NO. 4 (1400 WEST) AT 200 SOUTH	3	3	0						728,900
		2016-0794	MP58 LEE DRAIN IMPROVEMENTS	3	3	0						729,400
		2016-0790	MP53 FOOTHILL DRIVE STORM DRAIN	3	3	0						774,000
		2016-0779	MP38 LEE DRAIN IMPROVEMENTS	3	3	0						778,600
		2016-0762	MP11 DETENTION BASIN OVERFLOW	3	3	0						807,300
		2016-0803	MP71 INTERSECTION CROSS DRAIN UPGRADES	3	3	0						1,065,000
		2016-0781	MP40 EAST BENCH AND FEDERAL HEIGHTS IMPROVEMENTS	3	3	0						1,152,532
		2016-0813	MP87 CWA NO. 1 IMPROVEMENTS	3	3	0						1,287,200
		2016-0764	MP13 EMIGRATION CONDUIT	3	3	0						1,308,000
		2016-0768	MP18 UNDERSIZED CULVERTS, CHANNEL IMPROVEMENTS, DETENTIC	3	3	0						1,352,600
		2016-0785	MP47 PIPELINE FROM BECK STREET	3	3	0						1,693,643
		2016-0783	MP44 CWA NO. 2 AT I-80 NORTH TEMPLE OFF RAMP/AIRPORT DETENT	3	3	0						2,031,000



## STORMWATER CIP BUDGET FY 2019 -2023

[illegible]











**BASE LIGHTING FUND  
STREET LIGHTING ENTERPRISE FUNDS  
BUDGET SUMMARY  
FY 2019-2021**

<b>SOURCES</b>	<b>ACTUAL 2016-17</b>	<b>AMENDED BUDGET 2017-18</b>	<b>PROJECTED ACTUAL 2017-18</b>	<b>PROPOSED BUDGET 2018-19</b>	<b>FORECAST BUDGET 2019-20</b>	<b>FORECAST BUDGET 2020-21</b>
<b><u>REVENUES</u></b>						
STREET LIGHTING FEES	\$ 3,247,143	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000
INTEREST INCOME	29,806	30,000	30,000	24,000	16,000	10,000
OTHER REVENUES	7,131	2,000	2,000	2,000	2,000	2,000
TOTAL REVENUES	\$ 3,284,080	\$ 3,232,000	\$ 3,232,000	\$ 3,226,000	\$ 3,218,000	\$ 3,212,000
<b><u>OTHER SOURCES</u></b>						
GRANTS & OTHER RELATED REVENUES	7,086	-	-	-	-	-
TRANSFERS FROM GENERAL FUND	-	20,000	20,000	20,000	20,000	20,000
IMPACT FEES	-	-	-	-	-	-
BOND PROCEEDS	-	-	-	-	-	-
TOTAL OTHER SOURCES	7,086	20,000	20,000	20,000	20,000	20,000
TOTAL SOURCES	\$ 3,291,166	\$ 3,252,000	\$ 3,252,000	\$ 3,246,000	\$ 3,238,000	\$ 3,232,000
<b><u>EXPENSES &amp; OTHER USES</u></b>						
<b><u>EXPENDITURES</u></b>						
PERSONNEL SERVICES	\$ 108,190	\$ 259,424	\$ 259,424	\$ 198,307	\$ 202,273	\$ 206,319
OPERATING & MAINTENANCE	1,725	5,800	5,800	5,800	5,916	6,035
TRAVEL & TRAINING	2,860	2,700	2,700	3,000	3,060	3,121
UTILITIES	719,288	700,000	700,000	700,000	714,000	728,280
TECHNICAL SERVICES	1,124,075	1,040,204	1,040,204	1,320,204	1,254,808	1,279,904
DATA PROCESSING	-	-	-	-	-	-
FLEET MAINTENANCE	-	-	-	-	-	-
ADMINISTRATIVE SERVICE FEE	20,753	20,000	20,000	20,000	20,400	20,808
PAYMENT IN LIEU OF TAXES	-	-	-	-	-	-
RISK MANAGEMENT	7,551	-	-	-	-	-
TRANSFERS TO GENERAL FUND	-	-	-	-	-	-
OTHER CHARGES AND SERVICES	13,546	1,906	1,906	2,406	2,405	2,454
TOTAL EXPENDITURES	1,997,988	2,030,034	2,030,034	2,249,717	2,202,862	2,246,921
<b><u>OTHER USES</u></b>						
CAPITAL OUTLAY	-	-	-	-	-	-
CAPITAL IMPROVEMENT BUDGET	1,189,499	1,070,000	1,100,953	1,350,000	1,350,000	1,050,000
DEBT SERVICES	-	-	-	-	-	-
TOTAL OTHER USES	\$ 1,189,499	\$ 1,070,000	\$ 1,100,953	\$ 1,350,000	\$ 1,350,000	\$ 1,050,000
TOTAL USES	\$ 3,187,487	\$ 3,100,034	\$ 3,130,987	\$ 3,599,717	\$ 3,552,862	\$ 3,296,921
<b><u>EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES</u></b>	<b>\$ 103,679</b>	<b>\$ 151,966</b>	<b>\$ 121,013</b>	<b>\$ (353,717)</b>	<b>\$ (314,862)</b>	<b>\$ (64,921)</b>
<b><u>OPERATING CASH BALANCES</u></b>						
BEGINNING JULY 1	\$ 2,240,946	\$ 2,344,625	\$ 2,344,625	\$ 2,465,638	\$ 2,111,921	\$ 1,797,059
ENDING JUNE 30	\$ 2,344,625	\$ 2,496,591	\$ 2,465,638	\$ 2,111,921	\$ 1,797,059	\$ 1,732,138
Cash Reserve Ratio	117%	123%	121%	93.9%	81.6%	77.1%
<b>Cash reserve goal above 10%</b>						



**BASE LIGHTING FUND  
PRELIMINARY CASH FLOW**

	Actual YEAR 2015-2016	Actual YEAR 2016-2017	Projected YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-2023
STREET LIGHTING SALES	3,249,937	3,247,143	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000
OTHER INCOME	29,797	7,131	2,000	2,000	2,000	2,000	2,000	2,000
INTEREST INCOME	14,753	29,806	30,000	24,000	16,000	10,000	8,000	4,000
OPERATING INCOME	3,294,487	3,284,080	3,232,000	3,226,000	3,218,000	3,212,000	3,210,000	3,206,000
OPERATING EXPENSES	(1,801,019)	(1,997,988)	(2,030,034)	(2,249,717)	(2,202,862)	(2,246,921)	(2,291,858)	(2,337,697)
NET INCOME EXCLUDING DEP.	1,493,468	1,286,092	1,201,966	976,283	1,015,138	965,079	918,142	868,303
BOND PROCEEDS	-		-	-	-	-	-	-
GENERAL FUND CONTRIBUTION			20,000	20,000	20,000	20,000	20,000	20,000
ELECTRICITY REBATES	32,402	7,086	-	-	-	-	-	-
CAPITAL OUTLAY	-		-	-	-	-	-	-
DEBT SERVICE	-		-	-	-	-	-	-
OTHER INCOME & EXPENSE	32,402	7,086	20,000	20,000	20,000	20,000	20,000	20,000
GENERATED FOR CAPITAL	1,525,870	1,293,178	1,221,966	996,283	1,035,138	985,079	938,142	888,303
CAPITAL IMPROVEMENTS	(662,161)	(1,189,499)	(1,100,953)	(1,350,000)	(1,350,000)	(1,050,000)	(1,050,000)	(1,050,000)
BEGINING CASH BALANCE	1,377,237	2,240,946	2,344,625	2,465,638	2,111,921	1,797,059	1,732,138	1,620,280
CASH INCREASE/(DECREASE)	863,709	103,679	121,013	(353,717)	(314,862)	(64,921)	(111,858)	(161,697)
ENDING BALANCE	2,240,946	2,344,625		2,111,921	1,797,059	1,732,138	1,620,280	1,458,583
RATE CHANGE	0%	0%	0%	0%	0%	0%	0%	0%
Annual Bill	45	45	45	45	45	45	45	45
Cash Reserve Ratio	124.4%	117.3%	121.5%	93.9%	81.6%	77.1%	70.7%	62.4%



**TIER 1 LIGHTING FUND  
STREET LIGHTING ENTERPRISE FUNDS  
BUDGET SUMMARY  
FY 2019-2021**

					Rate increase 0%	Rate increase 0%
<b>SOURCES</b>	<b>ACTUAL 2016-17</b>	<b>AMENDED BUDGET 2017-18</b>	<b>PROJECTED ACTUAL 2017-18</b>	<b>PROPOSED BUDGET 2018-19</b>	<b>FORECAST BUDGET 2019-20</b>	<b>FORECAST BUDGET 2020-21</b>
<b>REVENUES</b>						
STREET LIGHTING FEES	\$ 176,032	\$ 169,964	\$ 169,964	\$ 170,000	\$ 170,000	\$ 170,000
INTEREST INCOME	490	-	-	2,000	4,000	5,000
OTHER REVENUES	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>\$ 176,522</b>	<b>\$ 169,964</b>	<b>\$ 169,964</b>	<b>\$ 172,000</b>	<b>\$ 174,000</b>	<b>\$ 175,000</b>
<b>OTHER SOURCES</b>						
GRANTS & OTHER RELATED REVENUES	-	-	-	-	-	-
SPECIAL ASSESSMENTS	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-
BOND PROCEEDS	-	-	-	-	-	-
<b>TOTAL OTHER SOURCES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL SOURCES</b>	<b>\$ 176,522</b>	<b>\$ 169,964</b>	<b>\$ 169,964</b>	<b>\$ 172,000</b>	<b>\$ 174,000</b>	<b>\$ 175,000</b>
<b>EXPENSES &amp; OTHER USES</b>						
<b>EXPENDITURES</b>						
PERSONNEL SERVICES	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OPERATING & MAINTENANCE	1,199	1,500	1,500	1,500	1,530	1,561
TRAVEL & TRAINING	-	-	-	-	-	-
UTILITIES	21,883	24,430	24,430	24,430	24,917	25,416
TECHNICAL SERVICES	26,977	42,064	42,064	42,100	42,943	43,802
DATA PROCESSING	-	-	-	-	-	-
FLEET MAINTENANCE	-	-	-	-	-	-
ADMINISTRATIVE SERVICE FEE	-	-	-	-	-	-
PAYMENT IN LIEU OF TAXES	-	-	-	-	-	-
RISK MANAGEMENT	-	-	-	-	-	-
TRANSFERS TO GENERAL FUND	-	-	-	-	-	-
OTHER CHARGES AND SERVICES	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>50,059</b>	<b>67,994</b>	<b>67,994</b>	<b>68,030</b>	<b>69,390</b>	<b>70,779</b>
<b>OTHER USES</b>						
CAPITAL OUTLAY	-	-	-	-	-	-
CAPITAL IMPROVEMENT BUDGET	6,865	75,000	75,000	5,000	5,000	195,000
DEBT SERVICES	-	-	-	-	-	-
<b>TOTAL OTHER USES</b>	<b>6,865</b>	<b>75,000</b>	<b>75,000</b>	<b>5,000</b>	<b>5,000</b>	<b>195,000</b>
<b>TOTAL USES</b>	<b>\$ 56,924</b>	<b>\$ 142,994</b>	<b>\$ 142,994</b>	<b>\$ 73,030</b>	<b>\$ 74,390</b>	<b>\$ 265,779</b>
<b>EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES</b>	<b>\$ 119,598</b>	<b>\$ 26,970</b>	<b>\$ 26,970</b>	<b>\$ 98,970</b>	<b>\$ 99,610</b>	<b>\$ (90,779)</b>
<b>OPERATING CASH BALANCES</b>						
BEGINNING JULY 1	\$ -	\$ 119,598	\$ 119,598	\$ 146,568	\$ 245,538	\$ 345,148
ENDING JUNE 30	\$ 119,598	\$ 146,568	\$ 146,568	\$ 245,538	\$ 345,148	\$ 254,369
Cash Reserve Ratio	239%	216%	216%	361%	497%	359%
<b>Cash reserve goal above 10%</b>						



**TIER 1 LIGHTING FUND  
CASH FLOW**

	Actual YEAR 2016-2017	Projected YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-2023
STREET LIGHTING SALES	176,032	169,964	170,000	170,000	170,000	170,000	170,000
OTHER INCOME	0	0	0	0	0	0	0
INTEREST INCOME	490	0	2,000	4,000	5,000	4,000	5,000
OPERATING INCOME	176,522	169,964	172,000	174,000	175,000	174,000	175,000
OPERATING EXPENSES	(50,059)	(67,994)	(68,030)	(69,390)	(70,779)	(72,194)	(73,639)
NET INCOME EXCLUDING DEP.	126,463	101,970	103,970	104,610	104,221	101,806	101,361
BOND PROCEEDS	0	0	0	0		0	0
CAPITAL OUTLAY	0	0	0	0	0	0	0
DEBT SERVICE	0	0	0	0	0	0	0
OTHER INCOME & EXPENSE	0	0	0	0	0	0	0
AVAILABLE FOR CAPITAL	126,463	101,970	103,970	104,610	104,221	101,806	101,361
CAPITAL IMPROVEMENTS	(6,865)	(75,000)	(5,000)	(5,000)	(195,000)	(5,000)	(5,000)
BEGINING CASH BALANCE	0	119,598	146,568	245,538	345,148	254,369	351,175
CASH INCREASE/(DECREASE)	119,598	26,970	98,970	99,610	(90,779)	96,806	96,361
ENDING BALANCES	119,598	146,568	245,538	345,148	254,369	351,175	447,536
RATE CHANGE	0%	0%	0%	0%	0%	0%	0%
Annual Bill	68.04	68.04	68.04	68.04	68.04	68.04	68.04
Cash Reserve Ratio	239%	216%	361%	497%	359%	486%	608%



**TIER 2 LIGHTING FUND  
STREET LIGHTING ENTERPRISE FUNDS  
BUDGET SUMMARY  
FY 2019-2021**

					Rate increase 0%	Rate increase 0%
<b>SOURCES</b>	<b>ACTUAL 2016-17</b>	<b>AMENDED BUDGET 2017-18</b>	<b>PROJECTED ACTUAL 2017-18</b>	<b>PROPOSED BUDGET 2018-19</b>	<b>FORECAST BUDGET 2019-20</b>	<b>FORECAST BUDGET 2020-21</b>
<b>REVENUES</b>						
STREET LIGHTING FEES	\$ 167,840	\$ 177,291	\$ 177,291	\$ 175,000	\$ 175,000	\$ 175,000
INTEREST INCOME	12,833	-	-	9,000	3,000	4,000
OTHER REVENUES	4,637	-	-	2,000	2,000	2,000
<b>TOTAL REVENUES</b>	<b>\$ 185,310</b>	<b>\$ 177,291</b>	<b>\$ 177,291</b>	<b>\$ 186,000</b>	<b>\$ 180,000</b>	<b>\$ 181,000</b>
<b>OTHER SOURCES</b>						
GRANTS & OTHER RELATED REVENUES	-	-	-	-	-	-
SPECIAL ASSESSMENTS	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-
BOND PROCEEDS	972,000	-	-	-	-	-
<b>TOTAL OTHER SOURCES</b>	<b>972,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL SOURCES</b>	<b>\$ 1,157,310</b>	<b>\$ 177,291</b>	<b>\$ 177,291</b>	<b>\$ 186,000</b>	<b>\$ 180,000</b>	<b>\$ 181,000</b>
<b>EXPENSES &amp; OTHER USES</b>						
<b>EXPENDITURES</b>						
PERSONNEL SERVICES	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OPERATING & MAINTENANCE	567	-	-	-	-	-
TRAVEL & TRAINING	-	-	-	-	-	-
UTILITIES	24,661	26,463	26,463	26,470	20,414	15,749
TECHNICAL SERVICES	27,311	69,895	69,895	69,900	57,182	45,827
DATA PROCESSING	-	-	-	-	-	-
FLEET MAINTENANCE	-	-	-	-	-	-
ADMINISTRATIVE SERVICE FEE	-	-	-	-	-	-
PAYMENT IN LIEU OF TAXES	-	-	-	-	-	-
RISK MANAGEMENT	-	-	-	-	-	-
TRANSFERS TO GENERAL FUND	-	-	-	-	-	-
OTHER CHARGES AND SERVICES	5,010	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>57,549</b>	<b>96,358</b>	<b>96,358</b>	<b>96,370</b>	<b>77,596</b>	<b>61,576</b>
<b>OTHER USES</b>						
CAPITAL OUTLAY	-	-	-	-	-	-
CAPITAL IMPROVEMENT BUDGET	30,795	470,000	470,000	470,000	5,000	5,000
DEBT SERVICES	8,666	32,518	39,717	40,000	40,000	75,000
<b>TOTAL OTHER USES</b>	<b>\$ 39,461</b>	<b>\$ 502,518</b>	<b>\$ 509,717</b>	<b>\$ 510,000</b>	<b>\$ 45,000</b>	<b>\$ 80,000</b>
<b>TOTAL USES</b>	<b>\$ 97,010</b>	<b>\$ 598,876</b>	<b>\$ 606,075</b>	<b>\$ 606,370</b>	<b>\$ 122,596</b>	<b>\$ 141,576</b>
<b>EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES</b>	<b>\$ 1,060,300</b>	<b>\$ (421,585)</b>	<b>\$ (428,784)</b>	<b>\$ (420,370)</b>	<b>\$ 57,404</b>	<b>\$ 39,424</b>
<b>OPERATING CASH BALANCES</b>						
BEGINNING JULY 1	\$ -	\$ 1,060,300	\$ 1,060,300	\$ 631,516	\$ 211,146	\$ 268,550
ENDING JUNE 30	\$ 1,060,300	\$ 638,715	\$ 631,516	\$ 211,146	\$ 268,550	\$ 307,974
Cash Reserve Ratio	1842%	663%	655%	219%	346%	500%
<b>Cash reserve goal above 10%</b>						



**TIER 2 LIGHTING FUND  
CASH FLOW**

	Actual YEAR 2016-2017	Projected YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2021-2022
STREET LIGHTING SALES	167,840	177,291	175,000	175,000	175,000	175,000	175,000
OTHER INCOME	4,637	0	2,000	2,000	2,000	2,000	2,000
INTEREST INCOME	12,833	0	9,000	3,000	4,000	5,000	5,000
OPERATING INCOME	185,310	177,291	186,000	180,000	181,000	182,000	182,000
OPERATING EXPENSES	(57,549)	(96,358)	(96,370)	(77,596)	(61,576)	(62,807)	(64,064)
NET INCOME EXCLUDING DEP.	127,761	80,933	89,630	102,404	119,424	119,193	117,936
NET BOND PROCEEDS	972,000						
CAPITAL OUTLAY	0	0	0	0	0	0	0
DEBT SERVICE	(8,666)	(39,717)	(40,000)	(40,000)	(75,000)	(73,000)	(128,000)
OTHER INCOME & EXPENSE	963,334	(39,717)	(40,000)	(40,000)	(75,000)	(73,000)	(128,000)
AVAILABLE FOR CAPITAL	1,091,095	41,216	49,630	62,404	44,424	46,193	(10,064)
CAPITAL IMPROVEMENTS	(30,795)	(470,000)	(470,000)	(5,000)	(5,000)	(5,000)	(5,000)
BEGINING CASH BALANCE	0	1,060,300	631,516	211,146	268,550	307,974	349,167
CASH INCREASE/(DECREASE)	1,060,300	(428,784)	(420,370)	57,404	39,424	41,193	(15,064)
ENDING BALANCES	\$1,060,300	\$631,516	\$ 211,146.18	\$268,550	\$307,974	\$349,167	\$334,103
RATE CHANGE	0%	0%	0%	0%	0%	0%	0%
Annual Bill	191.28	191.28	191.28	191.28	191.28	191.28	191.28
Debt Service Coverage	14.74		2.24	2.56	1.59	1.63	0.92
Cash Reserve Ratio	1842%	655%	219%	346%	500%	556%	522%



**TIER 3 LIGHTING FUND  
STREET LIGHTING ENTERPRISE FUNDS  
BUDGET SUMMARY  
FY 2019-2021**

					Rate increase 0%	Rate increase 0%
<b>SOURCES</b>	<b>ACTUAL 2016-17</b>	<b>AMENDED BUDGET 2017-18</b>	<b>PROJECTED ACTUAL 2017-18</b>	<b>PROPOSED BUDGET 2018-19</b>	<b>FORECAST BUDGET 2019-20</b>	<b>FORECAST BUDGET 2020-21</b>
<b>REVENUES</b>						
STREET LIGHTING FEES	\$ 625,117	\$ 605,116	\$ 605,116	\$ 625,000	\$ 625,000	\$ 625,000
INTEREST INCOME	20,514	-	-	17,000	7,000	10,000
OTHER REVENUES	7,289	-	-	5,000	5,000	5,000
<b>TOTAL REVENUES</b>	<b>\$ 652,920</b>	<b>\$ 605,116</b>	<b>\$ 605,116</b>	<b>\$ 647,000</b>	<b>\$ 637,000</b>	<b>\$ 640,000</b>
<b>OTHER SOURCES</b>						
GRANTS & OTHER RELATED REVENUES	-	-	-	-	-	-
SPECIAL ASSESSMENTS	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-
BOND PROCEEDS	1,528,000	-	-	-	-	-
<b>TOTAL OTHER SOURCES</b>	<b>1,528,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL SOURCES</b>	<b>\$ 2,180,920</b>	<b>\$ 605,116</b>	<b>\$ 605,116</b>	<b>\$ 647,000</b>	<b>\$ 637,000</b>	<b>\$ 640,000</b>
<b>EXPENSES &amp; OTHER USES</b>						
<b>EXPENDITURES</b>						
PERSONNEL SERVICES	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OPERATING & MAINTENANCE	414	-	-	-	-	-
TRAVEL & TRAINING	-	-	-	-	-	-
UTILITIES	180,772	247,775	247,775	240,000	190,608	146,886
TECHNICAL SERVICES	94,917	206,333	206,333	206,000	169,032	133,755
DATA PROCESSING	-	-	-	-	-	-
FLEET MAINTENANCE	-	-	-	-	-	-
ADMINISTRATIVE SERVICE FEE	-	-	-	-	-	-
PAYMENT IN LIEU OF TAXES	-	-	-	-	-	-
RISK MANAGEMENT	-	-	-	-	-	-
TRANSFERS TO GENERAL FUND	-	-	-	-	-	-
OTHER CHARGES AND SERVICES	8,094	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>284,197</b>	<b>454,108</b>	<b>454,108</b>	<b>446,000</b>	<b>359,640</b>	<b>280,641</b>
<b>OTHER USES</b>						
CAPITAL OUTLAY	-	-	-	-	-	-
CAPITAL IMPROVEMENT BUDGET	40,342	770,000	770,000	780,000	15,000	160,000
DEBT SERVICES	13,554	52,530	62,444	63,000	63,000	124,000
<b>TOTAL OTHER USES</b>	<b>\$ 53,896</b>	<b>\$ 822,530</b>	<b>\$ 832,444</b>	<b>\$ 843,000</b>	<b>\$ 78,000</b>	<b>\$ 284,000</b>
<b>TOTAL USES</b>	<b>\$ 338,093</b>	<b>\$ 1,276,638</b>	<b>\$ 1,286,552</b>	<b>\$ 1,289,000</b>	<b>\$ 437,640</b>	<b>\$ 564,641</b>
<b>EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES</b>	<b>\$ 1,842,827</b>	<b>\$ (671,522)</b>	<b>\$ (681,436)</b>	<b>\$ (642,000)</b>	<b>\$ 199,360</b>	<b>\$ 75,359</b>
<b>OPERATING CASH BALANCES</b>						
BEGINNING JULY 1	\$ -	\$ 1,842,827	\$ 1,842,827	\$ 1,161,391	\$ 519,391	\$ 718,751
ENDING JUNE 30	\$ 1,842,827	\$ 1,171,305	\$ 1,161,391	\$ 519,391	\$ 718,751	\$ 794,110
Cash Reserve Ratio	648%	258%	256%	116%	200%	283%
<b>Cash reserve goal above 10%</b>						



**TIER 3 LIGHTING FUND  
CASH FLOW**

	Actual YEAR 2016-2017	Projected YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2021-2022
STREET LIGHTING SALES	625,117	605,116	625,000	625,000	625,000	625,000	625,000
OTHER INCOME	7,289	0	5,000	5,000	5,000	5,000	5,000
INTEREST INCOME	20,514	0	17,000	7,000	10,000	12,000	15,000
OPERATING INCOME	652,920	605,116	647,000	637,000	640,000	642,000	645,000
OPERATING EXPENSES	(284,197)	(454,108)	(446,000)	(359,640)	(280,641)	(286,254)	(291,978)
NET INCOME EXCLUDING DEP.	368,723	151,008	201,000	277,360	359,359	355,746	353,022
NET BOND PROCEEDS	1,528,000						
CAPITAL OUTLAY	0	0	0	0	0	0	0
DEBT SERVICE	(13,554)	(62,444)	(63,000)	(63,000)	(124,000)	(120,000)	(152,000)
OTHER INCOME & EXPENSE	1,514,446	(62,444)	(63,000)	(63,000)	(124,000)	(120,000)	(152,000)
AVAILABLE FOR CAPITAL	1,883,169	88,564	138,000	214,360	235,359	235,746	201,022
CAPITAL IMPROVEMENTS	(40,342)	(770,000)	(780,000)	(15,000)	(160,000)	(15,000)	(15,000)
BEGINING CASH BALANCE	0	1,842,827	1,161,391	519,391	718,751	794,110	1,014,856
CASH INCREASE/(DECREASE)	1,842,827	(681,436)	(642,000)	199,360	75,359	220,746	186,022
ENDING BALANCES	\$1,842,827	\$1,161,391	519,391	\$718,751	\$794,110	\$1,014,856	\$1,200,878
RATE CHANGE	0%	0%	0%	0%	0%	0%	0%
Annual Bill	525.84	525.84	525.84	525.84	525.84	525.84	525.84
Debt Service Coverage		2.42	3.19	4.40	2.90	2.96	2.32
Cash Reserve Ratio	648%	256%	116%	200%	283%	355%	411%



**STREET LIGHTING UTILITY CIP BUDGET**  
**Five Year Projected Budget 2019-2023**

COST CENTER	PROJECT NUMBER	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	PAST YEAR 2017-18	BUDGET YEAR 2018-19	2019-20	2020-21	2021-22	2022-23	DELAYED
48-48001	2730.80	<b>Base Level Projects</b>									
48001	48135	ARTERIAL & COLLECTOR STREET HE AND SYSTEM UPGRADES	2	4	200,000	300,000	300,000				
48001	48126	HIGH WATTAGE REPLACEMENTS			400,000						
48001	48130	NEIGHBORHOOD HE AND SYSTEM UPGRADES	4	4	400,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	
48001	48137	1300 EAST - STREET LIGHTS	3	3	50,000						
48001		LOCAL STREET IMPROVEMENT SUPPORT			0	50,000	50,000	50,000	50,000	50,000	
48001	48136	SCOPING NORTHWEST QUADRANT			17,953						
48001	48141	PROGRAM MANAGEMENT DEVELOPMENT			33,000						
		<b>BASE LEVEL - TOTAL IMPROVEMENTS</b>			\$ 1,100,953	\$ 1,350,000	\$ 1,350,000	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000	\$ -
48-48101	2730.80	<b>TIER 1 Projects</b>									
48101	48131	Tier 1 Capital Replacements			75,000	5,000	5,000	5,000	5,000	5,000	575,000
48101		Tier 1 HE Upgrades			0		190,000				210,000
		<b>TIER 1 - TOTAL IMPROVEMENTS</b>			\$ 75,000	\$ 5,000	\$ 5,000	\$ 195,000	\$ 5,000	\$ 5,000	\$ 785,000
48-48201	2730.80	<b>TIER 2 Projects</b>									
48201	48132	Tier 2 Bad Wiring Replacement			365,000	365,000					
48201	48139	Tier 2 Capital Replacement			5,000	5,000	5,000	5,000	5,000	5,000	375,000
48201	48133	Tier 2 HE Upgrades			100,000	100,000					
		<b>TIER 2 - TOTAL IMPROVEMENTS</b>			\$ 470,000	\$ 470,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 375,000
48-48301	2730.80	<b>TIER 3 Projects</b>									
48301	48140	Tier 3 Capital Replacement			6,130	15,000	15,000	15,000	15,000	15,000	2,250,000
48301	48134	Tier 3 HE Upgrades			765,000	765,000		145,000			160,000
		<b>TIER 3 - TOTAL IMPROVEMENTS</b>			\$ 771,130	\$ 780,000	\$ 15,000	\$ 160,000	\$ 15,000	\$ 15,000	\$ 2,410,000
		<b>TOTAL CAPITAL IMPROVEMENTS</b>			\$ 2,417,082	\$ 2,605,000	\$ 1,375,000	\$ 1,410,000	\$ 1,075,000	\$ 1,075,000	\$ 3,570,000