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## April 2019 Sewer Rate Study

**Prepared for:**  
The City of Lebanon, Missouri

**Project No. 0318070.01**



Leaving a Legacy of Enduring  
Improvements to Our  
Communities

*Lamp Rynearson Purpose Statement*

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## EXECUTIVE SUMMARY

The City of Lebanon, Missouri (City) operates 2.6 million gallons per day (MGD) wastewater treatment plant (WWTP) which is in need of improvements to increase capacity and meet regulations. This project, amongst others outlined in the fiscal year (FY) 2019 budget, result in a 200% increase in the capital improvement budget from previous years. To determine the revenue needed to accommodate these projects the existing sewer rates were evaluated. As part of this evaluation six sewer rate scenarios analyzed to determine the best alternative for the City to implement. The recommended rate study scenario, *Scenario 5*, includes two rate adjustments in FY 2019 and 2020, as seen in the table below. This scenario also includes These adjustments will allow the City to finance the current CIP budget while keeping up with inflation of rising operational costs.

Other recommendations include:

- A new high strength user surcharge rate (**Section 4.6**)
- A septage haul rate structure (**Section 5.3**)
- Billing sewer customers at actual water usage (**Section 4.2**)

### Recommended Sewer Rate Structure

Description	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Service Charge:							
5/8-inch Meter	\$14.76	\$19.29	\$25.21	\$25.21	\$25.21	\$25.21	\$25.21
>5/8-inch Meter	\$26.75	\$34.96	\$45.69	\$45.69	\$45.69	\$45.69	\$45.69
Usage Rate: (per 1,000 gal)							
<7,000	\$1.25	\$1.63	\$2.13	\$2.13	\$2.13	\$2.13	\$2.13
7,001 - 25,000	\$3.00	\$3.92	\$5.12	\$5.12	\$5.12	\$5.12	\$5.12
>25,001 – Residential	\$3.95	\$5.16	\$6.74	\$6.74	\$6.74	\$6.74	\$6.74
>200,000 – Comm./Ind.	\$1.25	\$1.63	\$2.13	\$2.13	\$2.13	\$2.13	\$2.13
Cost of 5,000-gallon bill	\$21.01	\$27.44	\$35.86	\$35.86	\$35.86	\$35.86	\$35.86

## 1 INTRODUCTION

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Within the next five years the City of Lebanon, Missouri (City) has \$12 million worth of capital improvement projects (CIP) scheduled for construction. One of the projects includes improvements to the wastewater treatment plant to increase the plant treatment capacity from 2.6 million gallons a day (MGD) to 3.5 MGD. This has been scheduled for two years and the construction is expected to be completed in the 2020 fiscal year. Adjusting the sewer rates is critical for the progress of these improvements. With the increases in cost of service and construction costs, the sewer rates need to be evaluated.

The purpose of this study is to evaluate the current sewer rates for the City to determine the adequacy to cover future budgets and to project necessary rate changes for the study period (5 years). Revenues must be enough to cover existing expenses, provide revenue to meet inflationary increases in treatment and operation and maintenance costs, and fund planned capital improvements. Inflation of the operational expenses is based upon previous year trends as treatment, operation, and maintenance costs have increased more than the overall consumer price index (CPI).

Wastewater rate computations are based on cost of service method with a multi-block rate and a single uniform rate. Principals outlined in *“Water and Wastewater Finance and Pricing”* by George A. Raftelis and the American Water Works Association (AWWA) M1 Manual, *Principles of Water Rates, Fees, and Charges* were followed. Existing and proposed rates are also compared to current rates of nearby utilities. Scenarios for four sewer rate structures were analyzed to develop the recommended water and sewer rates needed to accommodate projected revenue requirements.

Other items reviewed include:

- Eliminating winter averaging for billing
- High strength user surcharges
- Sewer connection/impact fees
- Rate comparisons with other municipalities

## 2 BACKGROUND AND CURRENT SANITARY SEWER RATES

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### 2.1 SEWER SYSTEM BACKGROUND

The City has an estimated population of 14,611 (Source: U.S. Census 2016 population estimate as of July 1, 2017) and 6,198 active sewer connections (as of November 2018). Growth in population over the previous five years has been level. Nine water meters have been installed since 2015. This averages to an annual growth rate of 0.05%. This growth rate was used to estimate the revenue from sewer collections for the next 5 years. **Table 2-1** below details growth in the number of active sewer connections assuming equal number of new sewer service connections are installed as new water meters.

The City's fiscal year (FY) is July 1<sup>st</sup> to June 31<sup>st</sup> of the following year, and the fiscal year is defined by the end date. For example, FY2020 would be July 1<sup>st</sup>, 2019 to June 31<sup>st</sup>, 2020.

**Table 2-1: Annual Growth in Number of Sanitary Sewer Connections**

Description	Fiscal Year				
	2015-2016	2016-2017	2017-2018	2018-2019 <sup>[1]</sup>	Average
Number of Sanitary Sewer Services	6,188	6,193	6,196	6,198	6,194
Percent Increase (Number of Services)	N/A	0.08%	0.05%	0.03%	0.05%
Revenue from Connection fees	\$16,500	\$5,250	\$22,100	\$750	\$11,150

[1] Projected numbers. City data through December 2018 and fiscal year ends June 31<sup>st</sup> of 2019

The City operates a 2.6 MGD treatment facility which will be increased to 3.5 MGD in 2020. These improvements include new disk filters, storage modifications, bar screen upgrade at the head of the plant, new digesters, new electrical equipment control center, installation of mixers, and dissolved oxygen meters in the existing oxidation ditches. The anticipated capital cost of the project is \$5.4 Million. With the construction of this improvement the estimated debt service will increase approximately 30% when loan payments begin.

### 2.2 SEWER RATES AND IMPACT FEES

In the past the City has charged impact and hookup fees for new construction. Hookup fees are charged to recoup the cost of materials, labor, and overhead for the tap at the sewer main. Impact fees are charged as the investments required in collection and treatment facilities to

handle the addition of new loads. The combination of these fees is commonly referred as “connection fees”. Historic connection fee revenues were provided by the City. Recently however, the impact fees have been removed and the City is planning on suspending the hookup fees for residential homes costing \$200,000 or less. Future connection fee revenue was projected conservatively assuming no impact fees and that 50% of all new service connections are greater than \$200,000. **Table 2-2** summarizes what the sewer impact and hookup fees were when utilized and the new fee structure.

**Table 2-2: New Sewer Connection Fees**

Water Meter Size (Inches)	Previous		New	
	Hookup Fee	Impact Fee	Hookup Fee	Impact Fee
5/8	\$750	\$0	\$0 or \$750	\$0
1	\$750	\$900	\$750	\$0
1 1/2	\$750	\$2,250	\$750	\$0
2	\$750	\$3,000	\$750	\$0
3	\$750	\$4,000	\$750	\$0
4	\$750	\$5,000	\$750	\$0
6	\$750	\$6,000	\$750	\$0

The City's current sewer rates include a service charge and a usage charge broken down into three usage categories for residential users and four categories for commercial/industrial users. The service charge is a monthly charge based on classification of the customer; residential and commercial/industrial. The rates have not been increased for more than 7 years and are detailed in **Table 2-3**.

**Table 2-3: Current Sewer Rates**

Description	Residential	Comm/Indus
Service Charge	\$14.76	\$26.75
Usage Rate: <7,000 (per 1,000 gallons)	\$1.25	\$1.25
Usage Rate: 7,001 - 25,000 (per 1,000 gallons)	\$3.00	\$3.00
Usage Rate: 25,001 - 200,000 (per 1,000 gallons)	\$3.95	\$3.95
Usage Rate: >200,000 (per 1,000 gallons)	\$3.95	\$1.40

## 3 SEWER RATE ANALYSIS

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### 3.1 GENERAL

Most cities are set up as separate enterprise funds. (example: public works, water, wastewater, ect.) These are intended to be self-supporting entities that are financially supported from charges of service or taxes. The revenue for the City's wastewater utility is generated through charges of service for providing service to its customers. These "user charges" are a way of recovering the costs of providing sewer service to the City's customers. As previously discussed, the City's sewer billing is comprised of a minimum charge (service charge) and a commodity charge (volume charge). These two components together define the rate structure. This analysis follows steps outlined in "*Water and Wastewater Finance and Pricing*" by George A. Raftelis. Which defines the process of rate-setting as five steps. These steps are as follows:

#### **1. Identify Financial Objectives:**

The financial objective of the City is to provide sustainable wastewater service that addresses public health and safety. This is done by effective utility management and considering the following: revenue sufficiency and stability, impact on customers, fairness of rate structure, water conservation, legality, rate stability, implementation, and competitiveness with economic development. The revenue generated from sewer collection billing needs to accommodate the expenses associated with maintaining and operating the utilities. The costs to treat wastewater are rising well above the costs to treat drinking water due to heavy regulations and more pollutants and this is causing rises in sewer rates all over the nation.

#### **2. Forecast Usage:**

Water sales data provided by the City was used to forecast future water usages for sewer revenue projections. Data was based on the previous three years and used to separate customers into the usage categories.

#### **3. Identify Revenue Requirements:**

The costs for providing service must be identified to determine the adequate revenue needed from sewer billing. These costs include: Operation and maintenance, treatment,

staff related costs, debt service obligations, asset replacement, and capital improvement projects. Other revenue sources such as systems development fees (Impact/connection fees) are used to offset the total revenue requirements to be recovered from the user rates and charges.

**4. Allocate Costs and Determine Cost of Service:**

Once the revenue requirements have been determined the cost of service for each customer class is calculated to determine how the revenue requirements should be allocated. Separate rate structures are less important when determining sewer rates versus water rates because sewer loading rates are less impacted by the fluctuations in peaking water demands but are impacted by inflow and infiltration. Wastewater strength however, plays an important role in establishing surcharge rates. Currently the city has two user classes, residential and commercial/industrial.

**5. Design the Rate Structure:**

When designing a rate structure, most wastewater utilities typically establish both a fixed charge and a volumetric charge. The fixed charge, (service charge) is designed to recover a portion of certain “fixed” costs, such as customer billing, operation, and debt services. The volumetric charge is designed to recover the remaining costs from customer-based usage.

These methods outlined above, as well as methods from AWWA M1 Manual *Principles of Water Rates, Fees, and Charges* were followed for this study. The following information was used as a basis for rate design:

1. Water usage, sewer revenue, and customer information from 2015 through 2018.
2. Financial reports from the past three years.
3. Projected inflation in Operation and Maintenance expenses throughout the study period.
4. Anticipated replacement/improvement projects.
5. Debt service obligations

### 3.2 SEWER REVENUE AND CUSTOMER INFORMATION

To estimate future sewer revenue the City provided consumption summary reports, which include monthly water usages separated by customer class and the number of customers per class for the 2018 billing cycle. This data was used to develop a revenue projection model in MS excel. The model was used to determine the adequacy of the existing and the proposed sewer rates. Based on documents provided by the City ([Appendix A](#)), sewer customers are separated into five different classifications: Commercial, 2<sup>nd</sup> connection commercial, 3<sup>rd</sup> connection commercial, City, and residential. Average monthly water use for each customer class was determined from the consumption reports. Customer classes then were separated into water usage ranges for the revenue projections model. The assumed number of customers per water usage range, which was used for the revenue projection model, is detailed in **Table 3-1**.

**Table 3-1: Water Usage Classifications**

Gallons Used		2018 - Data	
From:	To:	Users in Range	Total Gallons Used
0	7,000	5,304	23,381,947
7,001	25,000	844	16,700,286
25,001	$\infty$	54	2,323,239
<b>Totals</b>		6198	42,409,881

The projected sewer revenue for the 2018 fiscal year was slightly lower than the actual revenue. Revenue projections were increased by a calibration factor of 7% so that the modeled and actual revenues for the past three years were nearly equal. After the adjustment, the sewer revenue projected for 2017 by the model was nearly equal to the actual revenue. Sewer collection revenue projections for each of the sewer rate scenarios are in [Appendix D](#).

The City's sewer billing is currently based on average winter usage, which is a measure of the volume of drinkable water used during the winter months that reasonably estimates the volume of wastewater discharged to the wastewater treatment facilities. The current winter averaging is calculated from October through March's water usage. [Section 4.2](#) discusses the option of discontinuing winter averaging of sewer bills. Customers who do a lot of outdoor

watering should get a separate irrigation water meter which would not be billed as part of the sewer usage. For customers who would need an irrigation meter the City could help with the cost of the irrigation meter by amortizing the installation fee over a year or longer.

### **3.3 SEWER FINANCIAL INFORMATION AND BUDGET PROJECTIONS**

Annual audit reports from the past three years (**Appendix A**) were used to determine the inflation rate of the cost of service. Inflation factors were based on historical data and engineering experience. These are shown on the Balance Sheets in **Appendix C**. The projected expenses in the balance sheets were used to develop a five-year budget with the following assumptions:

1. An annual increase of 0.05% was used in the number of active services over the five-year study period.
2. The operating expense items were given an annual inflation factor for the study period based on experience and historical growth rates seen with each expense. These factors are listed in a middle column of the Five-Year Balance Sheet projections.

Since economic factors are difficult to predict, especially in the areas of personnel and utility costs, these assumptions should be evaluated periodically, and adjustments made if necessary to insure adequate revenue from the sewer rate structure. The projected revenue generated from sales also includes the adjustments to the rates necessary to maintain sufficient reserve funds for day-to-day operations and reasonable accumulations for system replacement. The revenues and expenses were projected over the next ten years with allowances for inflation and population growth.

### **3.4 SEWER RELATED LONG TERM DEBT**

The City has two long-term debt expenses from previous sewer capital improvements. Anticipated debt service schedules are included on the Balance Sheets in **Appendix C**. The adopted CIP schedule contains 32 projects in the next five years. Several of these are assumed to be financed by loans/bonds. This is a fairly large increase from previous years and was considered when developing the proposed sewer rates.

### **3.5 SEWER CAPITAL IMPROVEMENT PLAN**

As previously stated, the City has several sewer system improvements scheduled in the next five years. **Table 3-2** on the next page summarizes the current capital improvement project schedule, with their anticipated construction costs. The balance sheets in **Appendix C** include the capital improvement budget with several of the projects on the debt section, since the City currently plans on financing a portion of the projects.

Table 3-2: Scheduled Sewer Capital Improvements

CIP Project Name	CIP Year	Budget <sup>[1]</sup>
Collection Improvements- Goodwin Hollow Watershed <sup>[2]</sup>	2018-2024	\$3,900,000
WWTP Improvements Phase 2 <sup>[2]</sup>	2020	\$5,400,000
WWTP Overhead Doors	2021	\$40,000
Sampler	2022	\$4,500
Lift Station SCADA	2019-2022	\$60,000
Goodwin Hollow Pump Station Phase 1 <sup>[2]</sup>	2020	\$850,000
Pickup Trucks	2019 & 2020	\$60,000
Portable Trash Pump	2021	\$4,000
Pipe Laser	2019	\$5,500
Oak & Caitlin Sewer Extension	2019	\$30,000
Easement Cleaning Machine	2019	\$80,000
Portable Generator	2019	\$60,000
WWTP Driveway Overlay	2020	\$40,000
Backhoe	2020	\$110,000
Replace Ex. WW Computer Systems	2019-2024	\$30,000
Lift Station Improvements	2020	\$600,000
Benchtop Spectrophotometer	2021	\$6,000
Dump Truck	2020	\$150,000
Standby Generator	2021	\$80,000
Excavator	2020	\$240,000
Biosolids Application Truck	2020	\$185,000
Equipment and Material Trailer	2020	\$8,000
Combination Cleaning Unit	2020-2024	\$320,000
Emerald Lane Gravity Sewer Main	2020	\$100,000
Sewer Main: Mizer Street	2021	\$15,000
Sewer Main: Barlow Street	2021	\$12,000
Sewer Main Marven Avenue	2021	\$27,000
Sewer Main: Perry Street	2021	\$40,000
IDEX	2021	\$6,000
Mechanical Convection Oven	2021	\$5,000
Analytical Balance	2021	\$4,000
Sewer Main: Hayes Street	2022	\$16,000
Sewer Main: Stave Mill Easement	2022	\$25,000
Oxidation Ditch Rehab	2023	\$50,000
Lab/Portable PH, LBOD Meter	2023	\$3,500
Orion Camera (CCTV)	2024	\$25,000
<b>Total 5-Year Budget</b>	N/A	<b>\$12,859,500</b>

[1] Cost from fiscal year 2019 budget posted on the City website

[2] Assumed to be financed with a bond/loan at a 4% interest rate.

### 3.6 HIGH STRENGTH SEWER USERS

The City currently has an ordinance that states that normal domestic wastewater is defined as wastewater that has a biochemical oxygen demand (BOD) concentration of not more than 300 milligrams per liter (mg/L) and a suspended solids (SS) concentration of not more than 350 mg/L. The average WWTP influent concentrations over the past 3 years have been approximately 200 mg/l and 300 mg/l for BOD and SS respectively. If a customer's wastewater exceeds these limits the Environmental Protection Agency (EPA) *Pretreatment Standards* require that the owner provide, at their own expense, preliminary treatment necessary to reduce the BOD and SS to the approved limits if they are discharging over 25,000 gallons per day.

The City currently has four permitted significant industrial users (SIU) that on average contributed 20-25% of the total monthly flow. This City is identifying other potential industrial users through an industrial waste survey (IWS). Historically, industrial customers have not been periodically sampled and tested for BOD and SS so there is no ordinance for surcharge rates based on levels exceeding the specified limits. The 2017 estimated treatment cost for BOD and SS was \$531,132 (both) or \$0.370 and \$0.246 per pound, respectively. Based on the expense projections detailed in **Appendix B** the average 5-year cost to treat BOD is \$0.416 per pound and SS is \$0.277 per pound. Surcharge rates of these amounts are recommended for customers who regularly discharges waste exceeding the limits in the existing ordinance. **Table 3-3** includes a summary of calculations. Assumptions and a full list of calculations through the study period is provided in **Appendix B**. The City has no major food processors so there may not be any customers who regularly exceed the domestic waste limits and the surcharge rate would not be used.

**Table 3-3: Summary of Calculations**

Category	Item	Assumed Inflation			
		2017-2018	Factor	2018-2019	2019-2020
<b><i>Average Flow Summary</i></b>					
	<b>Number of Customers</b>	6,198	0.05%	6,201	6,204
	<b>Annual Flow, gallons</b>	859,635,833		860,065,651	860,495,684
	Annual Flow, MGD	2.36		2.36	2.36
	Influent BOD Concentration	200		200	200
	Influent SS Concentration	300		300	300
	<b>Annual BOD, pounds</b>	1,434,732		1,435,450	1,436,167
	<b>Annual SS, pounds</b>	2,152,098		2,153,174	2,154,251
<b><i>Expenses</i></b>					
<b><i>Operating Expenses</i></b>					
	WWTP and Operation	\$1,243,747	4.0%	\$1,293,497	\$1,345,237
	Maintenance	\$139,072	4.0%	\$144,635	\$150,420
	Inflow and Infiltration	\$387,621	1.0%	\$391,497	\$395,412
	<b>Total Operating Expenses</b>	<b>\$1,770,439</b>		<b>\$1,829,628</b>	<b>\$1,891,069</b>
	<b>Total Operating Expenses (Less I&amp;I)</b>	<b>\$1,382,819</b>		<b>\$1,438,132</b>	<b>\$1,495,657</b>
<b><i>Treatment Expense Summary</i></b>					
	Annual Cost to Treat Annual Flow	\$708,176	4.0%	\$731,851	\$756,427
	Annual Cost to Treat Annual BOD	\$531,132	4.0%	\$548,889	\$567,321
	Annual Cost to Treat Annual SS	\$531,132	1.0%	\$548,889	\$567,321
	Cost per Gallon	\$0.00082		\$0.00085	\$0.00088
	Cost per Pound BOD	\$0.37020		\$0.38238	\$0.39502
	Cost per Pound SS	\$0.24680		\$0.25492	\$0.26335

## 4 PROPOSED SEWER RATES

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### 4.1 RATE DESIGN

Typically, wastewater collection utilities have a single uniform rate for normal strength wastewater applicable to all customers. However, it is becoming more common for municipalities utilize a multi-block rate structure for continuity with the water rate structure and to support water conservation. The City utilizes a multi-block structure for their sewer billing. Sewer rate structures were evaluated using both a multi-block and single rate approach. Six sewer rate scenarios were evaluated with various strategies. Since future debt and capital improvement budgets vary year to year, the City's reserve funds were considered when developing the proposed sewer rates. The reserve fund is currently used to finance miscellaneous, emergency, and special need expenditures. There is an existing ordinance stating that the fund balance shall be greater than 30% of the annual revenue/expenses. This baseline was used for all the rate design scenarios. The City is recommended to carry over surplus funds to finance subsequent year budgets that may have a higher debt service obligation or higher budgeted capital improvements. This allows for less severe rate adjustments, while still maintaining the 30% baseline though the study period.

### 4.2 SEWER RATE SCENARIO REVIEW

**Appendix C** includes Five-Year Balance Sheets with projected revenues and expenses for the following 6 scenarios:

**Scenario 1:** Existing multi-block rate structure with minimum rate adjustments to maintain a reserve fund balance greater than 30% annual expenses. This scenario includes a larger initial rate increase in fiscal year 2019 followed by smaller annual rate increases through the study period.

**Scenario 2:** Existing multi-block rate structure with minimum rate adjustments to maintain a reserve fund balance greater than 30% annual expenses. This scenario includes two rate increases in fiscal year 2019 and 2020 with no other proceeding rate increases.

**Scenario 3:** Existing multi-block rate structure with minimum rate adjustments to maintain a reserve fund balance greater than 30% annual expenses. This scenario includes a single large rate increase in fiscal year 2019 in addition to annual capital fund transfers of \$65,000 annually and reinstating impact fees and hookup fees for all customers.

**Scenario 4:** A new single uniform rate structure with minimum rate adjustments to maintain a reserve fund balance greater than 30% annual expenses. This scenario includes a varying initial rate increase which is more severe towards lower usage customers initially.

**Scenario 5:** Existing multi-block rate structure with minimum rate adjustments to maintain a reserve fund balance greater than 30% annual expenses. This scenario includes a new service charge based on meter size classifications rather than customer classes and also includes two rate increases in fiscal year 2019 and 2020 with no other proceeding rate increases.

**Scenario 6:** Existing multi-block rate structure with minimum rate adjustments to maintain a reserve fund balance greater than 30% annual expenses. This scenario includes a new service charge based on seven meter sizes rather than customer classes and also includes two rate increases in fiscal year 2019 and 2020 with no other proceeding rate increases.

If there are no sewer rate increases and the existing CIP plan is adopted there will be budget deficits within 2-3 years. To accommodate the adopted CIP, three different methods can be explored to meet revenue requirements:

1. Sewer rate adjustments
2. Sewer impact and connection fee adjustments
3. Transfers from another departmental fund

Sewer rate adjustments was the only method reviewed for *Scenarios 1, 2, 4, 5, and 6*. The other methods were investigated in *Scenario 3*. All of the scenarios have large initial rate increases upfront due to costly improvements needed in 2020. *Scenarios 1 and 2* are similar

utilizing the existing rate structure, however in *Scenario 2* the necessary rate increases are spread over two years. These adjustments may be easier to implement than a scenario with one severe rate increase in 2019.

*Scenario 3* includes the reinstatement of impact fees and annual departmental fund transfers. While the best practice is to recover capacity costs up front through connection fees, systems often recover capacity costs through the base rate or cost of service fee that every customer pays. An important factor to consider concerning impact fees is a comparison of fees with neighboring communities or “market conditions”. As discussed in **Section 2.2**, the City’s impact and hookup fees have been mostly discontinued to attract economic development. The effect of reinstating connection fees was explored in this scenario. With impact fees the added revenue is minimum and reinstating the connection fees was not further investigated. In previous years the sewer department has received capital transfers from other funds. If the City were to choose to borrow funds from another department’s reserve funds, less severe rate increases would be needed. The City’s departments are intended to be self-supporting and review of the budgets of the other departments is outside the scope of this rate analysis. This scenario is not recommended.

A single uniform rate structure is utilized in *Scenario 4*. A single uniform rate is common because wastewater collection systems are typically overloaded from inflow and infiltration rather than customer peak flows. Implementing a single uniform rate would increase for the residential user at a much larger percentage than higher volume customers. Due to the burden this would put on the majority of the City’s residential customers this scenario is not recommended. It is estimated that the revenue collected from the residential customers is approximately 57% versus 43% collected from commercial/industrial users. This is nearly equal to the flow percentage collected from the two customer classes.

*Scenarios 5 and 6* explores rate structures with service charges based on water meter size rate than customer class. Currently the City has two classifications for sewer service charges, residential customers and commercial/industrial customers. A major impact on the cost of service is peak usage. Sewer infrastructure is not as impacted from peak customer usage as water

infrastructure, however customer flows play an important role in sewer line sizing and if not sized properly sewer overflows could be a resultant. The current rate structure does not charge customers to reflect the infrastructure costs that are required to meet peak flows. An analogy to this is how roads are built to accommodate rush hour traffic. Currently the City's water system is built to satisfy peak flows, but customers who create peak flows are not charged accordingly. A service charge based on meter size is recommended to improve the rate structure to address this issue. Water meters are sized according to peak demands rather than annual demands. Another reason service charges are advantageous is the financial impact the current large service charges have on small businesses that contribute little flow but are charged the high service charge for commercial/industrial customers. *Scenario 5* includes a service charge structure similar to the existing one however rather than charging by customer classes (residential and commercial/industrial) customers would be charged by two water meter classification. This would be meters 5/8-inch and meters greater than 5/8-inch. This would be simple for the City to implement. *Scenario 6* includes a service charge structure for every meter size. This would provide a charge more accurate to the customer costs of service but would be more difficult to implement and would be a more severe impact to customers with larger water meters. Also, it should be noted that customers that have larger water meters for irrigation purposes who contribute minimal wastewater flow would be charged the higher fee unless exemptions were made. For ease of implementation *Scenario 5* is recommended. **Table 6-1** includes recommended service charge rates.

The use of winter averaging for sewer billing was also evaluated as part of this study. Winter averaging is not always ideal for every municipality. When many customers go on vacation during the winter months, the average flow used to bill customers for the rest of the year could be misleadingly low. In contrast many residents have family in town for the winter holidays. This can cause spikes in these customers winter water usage contributing to an increase in the average water which would be used to bill for all months of the year. This would cause an increased sewer bill for these customers. It is best management practice to support water conservation. Charging customers by actual water usage for sewer bills will provide another means to water conservation incentives. Eliminating winter averaging would entice irrigation customers to purchase a separate

water meter for outdoor watering. The City could adopt a program to amortize the cost of the new meter or connect temporary seasonal meters that would be returned at the end of the year. Based on the total water usages in 2017 the monthly average is 8,400 gal/mo per customer versus the winter average of 7,700 gal/mo per customer. Eliminating winter averaging could result in as much as a \$80,000 increase in annual sewer billing revenue based on these monthly usages. However, these averages include irrigation customers who have limited winter water usage so actual revenues could be different. In reality the winter and annual water usage for sewer customers is most likely nearly equal.

### 4.3 SEPTIC HAULERS

The City currently accepts septage at the wastewater treatment plant (WWTP). There are approximately five loads of septage per week with an average of 1,000 gallons per hauler. The City logs septage haul info, but has no mechanism to monitor or control the waste when it is received. Since the City does not have any metering devices the septage hauling vehicles should continue to be assumed full to capacity. The EPA's Guidance Manual for the Control of Wastes Hauled to Publicly Owned Treatment Works includes a table of average domestic septage pollutant concentrations. Since no testing is currently done the concentrations of incoming septage must be assumed. **Table 4-1** includes assumptions used for calculating septic haul rates.

**Table 4-1: Typical Wastewater/Septic Tank Comparison**

Pollutant	City Avg Infl. Wastewater	Septic Tank	Multiplier
BOD	200 mg/l	6,500 mg/l	33x
TSS	300 mg/l	13,000 mg/l	44x

Source: EPA Guide to Septage Treatment and Disposal 07-18-2001

When separating wastewater treatment expense by pollutant, the costs are typically split 40-30-30% for flow, BOD, and SS. These allocation percentages are general guidelines provided by the EPA. Based on the City's finances this equates to a projected \$800,000 to treat flow and \$600,000 to treat BOD and SS. Using the multipliers in **Table 4-1** and the estimated treatment

expenses over the next 5 years the average cost to treat 1,000 gallons of septage is estimated to be \$20.00. Unless further testing is done this is the recommended charge for septage haulers. Lebanon may want to require that the waste haulers review the source of each load and request a sample of selected discharge.

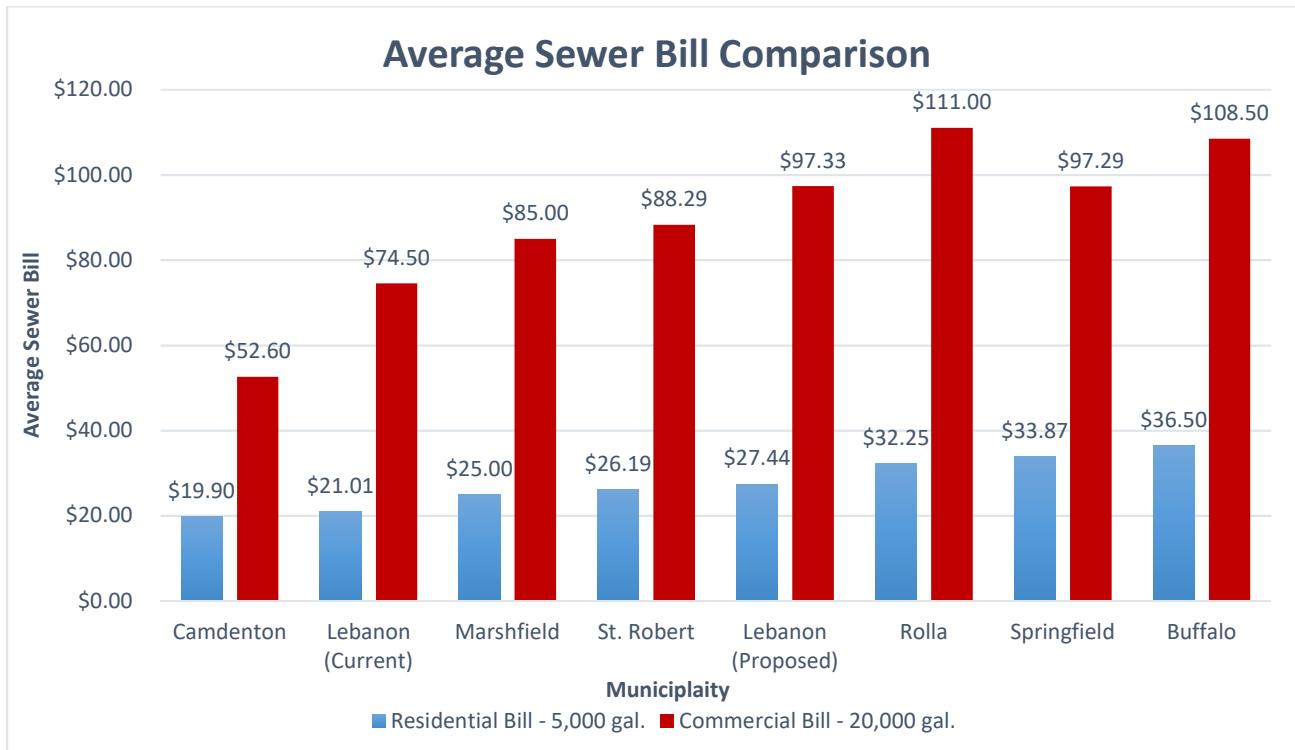
## 5 RATE COMPARISONS

The City's current sewer rates compare favorably with other nearby municipalities. **Table 5-1** includes the cost of an average (5,000 gallons) and the cost of a larger (20,000 gallons) sewer bill with the City's existing and proposed rates as well as rate of other nearby municipalities. These rates are current as of 1/1/2019.

**Table 5-1: Sewer Rate Comparison**

Water or Sewer System	5,000 gal Sewer Bill (Residential)	20,000 gal Sewer Bill (Commercial)	2017 Census Population
Camdenton	\$19.90	\$52.60	4,059
Lebanon (Current)	\$21.01	\$74.50	14,611
Marshfield	\$25.00	\$85.00	7,344
St. Robert	\$26.19	\$88.29	5,773
Lebanon (Proposed)	\$27.44	\$97.33	N/A
Rolla	\$32.25	\$111.00	20,293
Springfield	\$33.87	\$97.29	167,376
Buffalo	\$36.50	\$108.50	3,060

NOTE: These bills include service charges/base rates



**Figure 5-1: Average Sewer Bill Comparison**

## 6 RECOMMENDATIONS

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Due to inflation, increases in cost of service, and needed infrastructure improvements, the City is recommended to evaluate and adjust their sewer rates annually. The City's wastewater treatment plant is in need of important improvements to increase capacity, meet federal regulation requirements, and replace equipment that has exceeded their life cycle. This large project and others scheduled for fiscal year 2020 account for a 220% increase in the CIP budget from the preceding year. The existing sewer rates will not support the revenue required to afford these projects while maintaining a safe reserve fund balance. Six sewer rate scenarios were reviewed to determine the best course of action for the City. Any of the scenarios could be implemented to meet projected revenue requirements, however the rates following *Scenario 5* are recommended based on ease of implementation compared to the other scenarios and the smaller financial impact it will have on the customers with lower flow rates. These projected rates are listed in **Table 6-1**.

Winter averaging for sewer billing is not always the right solution. As part of this study the use of winter averaging was reviewed. Based on the total water usage in 2017 the monthly water usage averaged 8,400 gal/mo per customer versus the winter average of 7,700 gal/mo per customer. Eliminating winter averaging could result in as much as a \$80,000 increase in annual sewer billing revenue based on these monthly usages. However, these numbers include irrigation customers who have limited winter water usage so actual revenues could be different. When many customers go on vacation during the winter months, the average flow used to bill customers for the rest of the year is misleadingly low. Customers who do a substantial amount of outdoor watering should get a separate irrigation meter which could be amortized in installments or a temporary seasonal meter could be used.

The City currently has four permitted significant industrial users (SIU) and is identifying other potential industrial users through an industrial waste survey (IWS). There is no current surcharge rate structure for these users and a new surcharge rate structure is recommended for customers who regularly discharges waste exceeding the limits in the City's existing ordinance.

Based on the calculated average 5-year cost to treat BOD and SS, surcharge rates of \$0.416 and \$0.277 per pound is recommended.

**Table 6-1: Recommended Sewer Rate Structure**

Description	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
<b>Service Charge:</b>							
5/8-inch Meter	\$14.76	\$19.29	\$25.21	\$25.21	\$25.21	\$25.21	\$25.21
>5/8-inch Meter	\$26.75	\$34.96	\$45.69	\$45.69	\$45.69	\$45.69	\$45.69
<b>Usage Rate: (per 1,000 gal)</b>							
<7,000	\$1.25	\$1.63	\$2.13	\$2.13	\$2.13	\$2.13	\$2.13
7,001 - 25,000	\$3.00	\$3.92	\$5.12	\$5.12	\$5.12	\$5.12	\$5.12
>25,001 – Residential	\$3.95	\$5.16	\$6.74	\$6.74	\$6.74	\$6.74	\$6.74
>200,000 – Comm./Ind.	\$1.25	\$1.63	\$2.13	\$2.13	\$2.13	\$2.13	\$2.13
Cost of 5,000-gallon bill	\$21.01	\$27.44	\$35.86	\$35.86	\$35.86	\$35.86	\$35.86

## APPENDIX SUMMARY

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Appendix A – Historic Financial Data

Appendix B – Septage Haul and High Strength User Data

Appendix C – 5-Year Balance Sheets for All Sewer Rate Scenarios

Appendix D – Sewer Operation Revenue Projections

Appendix E – Water Usage and Sewer Customer Data

# Appendix A

## Historical Financial Data

Capital Improvement Program 2020-2024							
Project Number	Project Name	2020	2021	2022	2023	2024	Total
01-ENV-004-20	Stormwater: Rolling Hills Road Improvements	\$30,000					\$30,000
01-ENV-001-21	Stormwater: Brook and Indian Creek Improvements		\$30,000				\$30,000
01-ENV-002-21	Stormwater: Springfield and Jackson		\$25,000				\$25,000
01-ENV-001-22	Stormwater: Quail Valley Improvements			\$15,000			\$15,000
01-ENV-002-22	Stormwater: Highway YY and Raef Road Improvements			\$10,000			\$10,000
01-ENV-003-22	Stormwater: Washington and Park Manor			\$60,000			\$60,000
01-ENV-001-23	Stormwater: West Fremont Improvements				\$10,000		\$10,000
01-ENV-002-23	Stormwater: Evergreen Improvements				\$25,000		\$25,000
01-ENV-003-23	Stormwater: Flatwoods				\$25,000		\$25,000
85-ENV-001-14	Collection Improvements- Goodwin Hollow Watershed	\$600,000	\$650,000	\$700,000	\$750,000	\$750,000	\$3,450,000
85-ENV-002-14	WWTP Improvements Phase 2		\$2,000,000				\$2,000,000
85-ENV-004-15	Sampler			\$4,500			\$4,500
85-ENV-007-15	Lift Station SCADA	\$20,000	\$20,000	\$20,000			\$60,000
85-ENV-006-16	Mechanical Bar Screen	\$650,000					\$650,000
85-ENV-007-16	Pickup Trucks	\$30,000		\$30,000			\$60,000
85-ENV-008-16	Portable Trash Pump				\$4,000		\$4,000
85-ENV-001-17	Wastewater Treatment Plant Driveway Overlay	\$35,000					\$35,000
85-ENV-001-18	Backhoe	\$100,000					\$100,000
85-ENV-003-18	Replace Existing Wastewater Computer Systems	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000
85-ENV-001-19	Lift Station Improvements	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
85-ENV-002-19	Benchtop Spectrophotometer					\$6,500	\$6,500
85-ENV-004-19	Dump Truck	\$150,000					\$150,000
85-ENV-005-19	Standby Generator		\$80,000				\$80,000
85-ENV-004-20	Excavator	\$240,000					\$240,000
85-ENV-005-20	Biosolids Application Truck	\$185,000					\$185,000
85-ENV-006-20	Equipment and Material Trailer	\$8,000					\$8,000
85-ENV-007-20	Combination Cleaning Unit	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$400,000
85-ENV-008-20	Emerald Lane Gravity Sewer Main	\$100,000					\$100,000
85-ENV-001-21	Sewer Main: Mizer Street		\$15,000				\$15,000
85-ENV-002-21	Sewer Main: Barlow Street		\$12,000				\$12,000
85-ENV-003-21	Sewer Main: Marvin Avenue		\$27,000				\$27,000

Capital Improvement Program 2020-2024							
Project Number	Project Name	2020	2021	2022	2023	2024	Total
85-ENV-004-21	Sewer Main: Perry Street		\$40,000				\$40,000
85-ENV-005-21	IDEX		\$6,000				\$6,000
85-ENV-006-21	Mechanical Convection Oven		\$5,000				\$5,000
85-ENV-007-21	Analytical Balance		\$4,000				\$4,000
85-ENV-001-22	Sewer Main: Hayes Street			\$16,000			\$16,000
85-ENV-002-22	Sewer Main: Stave Mill Easement			\$25,000			\$25,000
85-ENV-001-23	South Highway 5 Lift Station				\$200,000		\$200,000
85-ENV-002-23	Lab/Portable PH, LBOD Meter				\$3,500		\$3,500
85-ENV-001-24	Orion Camera (CCTV)					\$25,000	\$25,000
87-ENV-006-15	Tower Modification	\$75,000					\$75,000
87-ENV-007-15	Dump Truck			\$135,000			\$135,000
87-ENV-001-17	Rosenthal Woodhill North 5 Water Tie-In	\$120,000					\$120,000
87-ENV-002-17	Park Manor Water Line Replacement		\$55,000				\$55,000
87-ENV-003-17	Spiller Tower Renovation	\$360,000					\$360,000
87-ENV-001-18	Nathaniel and Steele Water Tie In	\$55,000					\$55,000
87-ENV-002-18	New Well and Tower	\$3,000,000					\$3,000,000
87-ENV-003-18	Pickup Trucks		\$30,000		\$30,000		\$60,000
87-ENV-004-18	Service Truck	\$85,000					\$85,000
87-ENV-007-18	Replace Existing Water Computer Systems	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000
87-ENV-001-19	Water Line: Ostrich Lane		\$150,000				\$150,000
87-ENV-002-19	Water Main: West Bland		\$60,000				\$60,000
87-ENV-003-19	Bowling Water Tower Top Coat		\$245,000				\$245,000
87-ENV-004-19	Water Wells: Chlorine Analyzer Replacements	\$4,500					\$4,500
87-ENV-005-20	Water Main: Kansas	\$37,000					\$37,000
87-ENV-006-20	Glencastle Tower	\$500,000					\$500,000
87-ENV-007-20	Portable Trash Pump	\$3,000					\$3,000
87-ENV-008-20	Water Well Critical Parts	\$20,000	\$10,000	\$10,000	\$10,000	\$10,000	\$60,000
87-ENV-001-21	Water Tie Line: Twin Oaks & Tower		\$16,000				\$16,000
87-ENV-002-21	Water Main: Mizer		\$16,000				\$16,000
87-ENV-003-21	Water Main: Barlow		\$17,000				\$17,000
87-ENV-004-21	Water Main: Marvin		\$32,000				\$32,000

85 -WASTEWATER  
FINANCIAL SUMMARY

	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
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REVENUE SUMMARY

WWTP AND OPERATION	<u>2,419,214.94</u>	<u>2,431,697.16</u>	<u>2,542,943.73</u>	<u>3,289,000.00</u>	<u>77.32</u>
TOTAL REVENUES	2,419,214.94	2,431,697.16	2,542,943.73	3,289,000.00	77.32
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EXPENDITURE SUMMARY

WWTP AND OPERATION	1,097,141.52	1,289,571.65	1,492,116.09	3,221,523.00	46.32
WW MAINTENANCE	109,586.32	134,349.45	145,933.65	230,326.00	63.36
INFLOW & INFILTRATION	<u>395,045.02</u>	<u>342,542.88</u>	<u>387,620.62</u>	<u>467,678.00</u>	<u>82.88</u>
TOTAL EXPENDITURES	1,601,772.86	1,766,463.98	2,025,670.36	3,919,527.00	51.68
REVENUE OVER/ (UNDER) EXPENDITURES	817,442.08	665,233.18	517,273.37	( 630,527.00)	82.04-
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85 -WASTEWATER

REVENUES	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
<u>WWTP AND OPERATION</u>					
4-200-2005.002 GRANT-CAPITAL	51,928.20	0.00	0.00	0.00	0.00
4-200-3000.012 CUSTOMER BILLING	2,241,948.39	2,306,112.79	2,324,756.66	2,800,000.00	83.03
4-200-3000.013 PENALTIES	32,091.18	30,675.24	29,306.46	30,000.00	97.69
4-200-3000.016 FACILITY IMPACT	16,500.00	5,250.00	22,100.00	25,000.00	88.40
4-200-3000.020 REDEVELOPMENT PROJ. REVENU	0.00	0.00	0.00	0.00	0.00
4-200-3010.001 MISC-BOND PROCEEDS	46,617.79	46,498.00	46,548.55	400,000.00	11.64
4-200-3010.004 MISC-INVESTMENT INCOME	2,391.82	5,629.00	6,317.67	5,000.00	126.35
4-200-3010.006 MISC-MISCELLANEOUS	4,505.06	5,318.08	2,395.05	4,000.00	59.88
4-200-3010.008 MISC-GAIN/LOSS-ASSET DISPO	1,767.50	6,322.50	0.00	5,000.00	0.00
4-200-3010.010 MISC-LEASE PROCEEDS	0.00	0.00	0.00	0.00	0.00
4-200-3010.012 MISC-PURCHASING CARD REBAT	0.00	0.00	260.32	0.00	0.00
4-200-3999.000 CAPITAL ASSET TRANSFER	3,690.00	2,337.49	64,009.02	0.00	0.00
4-200-4005.002 PERMITS-SEWER	<u>17,775.00</u>	<u>23,554.06</u>	<u>47,250.00</u>	<u>20,000.00</u>	<u>236.25</u>
TOTAL WWTP AND OPERATION	2,419,214.94	2,431,697.16	2,542,943.73	3,289,000.00	77.32
TOTAL REVENUES	2,419,214.94	2,431,697.16	2,542,943.73	3,289,000.00	77.32

85 -WASTEWATER

EXPENDITURES	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
<u>WWTP AND OPERATION</u>					
5-200-1000.001 FULLTIME SALARY	251,856.95	278,018.08	291,758.32	307,010.00	95.03
5-200-1000.002 PARTTIME SALARY	0.00	14,470.46	0.00	0.00	0.00
5-200-1000.004 ON CALL	6,921.18	7,846.47	6,769.40	7,475.00	90.56
5-200-1000.005 FULLTIME OVERTIME	11,883.76	14,929.61	14,713.77	16,760.00	87.79
5-200-1000.006 PART TIME OVERTIME	0.00	261.02	0.00	0.00	0.00
5-200-1000.007 ON CALL OVERTIME	104.00	0.00	0.00	0.00	0.00
5-200-1005.000 BENEFITS-GENERAL	0.00	0.00	0.00	0.00	0.00
5-200-1005.001 HEALTH PREMIUM-EMPLOYEE	26,966.92	28,350.40	40,057.08	39,480.00	101.46
5-200-1005.002 HEALTH PREMIUM-FAMILY	28,583.22	24,856.57	42,702.01	35,040.00	121.87
5-200-1005.003 DENTAL PREMIUM-EMPLOYEE	1,846.40	1,524.84	1,658.69	2,100.00	78.99
5-200-1005.004 DENTAL PREMIUM-FAMILY	426.40	426.40	426.40	600.00	71.07
5-200-1010.001 LIFE INSURANCE	396.44	400.97	469.76	505.00	93.02
5-200-1015.001 LAGERS-GENERAL	55,777.80	57,005.37	38,761.55	43,062.00	90.01
5-200-1015.004 DEFERRED COMP-EMPLOYER	4,675.00	4,050.00	3,900.00	5,200.00	75.00
5-200-1020.000 PAYROLL TAXES-GENERAL	0.00	0.00	0.00	0.00	0.00
5-200-1020.001 FICA-EMPLOYER	15,833.27	18,689.81	18,198.53	20,540.00	88.60
5-200-1020.002 MEDICARE-EMPLOYER	3,703.13	4,371.03	4,256.13	4,805.00	88.58
5-200-1020.003 UNEMPLOYMENT COMPENSATION	2,706.58	3,149.19	3,132.58	3,315.00	94.50
5-200-1020.004 WORKMANS COMPENSATION	6,873.73	6,369.09	8,611.38	8,222.00	104.74
5-200-1025.001 EMPLOYEE-UNIFORMS	3,017.85	3,504.76	4,415.11	4,500.00	98.11
5-200-1025.002 EMPLOYEE-DUES/LIC/MEMBERSH	251.25	296.25	560.00	500.00	112.00
5-200-1025.004 EMPLOYEE-TRAVEL/HOTEL	1,632.92	1,765.22	2,088.28	1,500.00	139.22
5-200-1025.005 EMPLOYEE-TRAINING	3,640.79	1,161.00	3,686.20	5,000.00	73.72
5-200-1025.009 EMPLOYEE-TUITION ASSISTANC	0.00	0.00	0.00	0.00	0.00
5-200-2005.000 CAPITAL EXP-LAND & IMPROVE	110,503.80	503,070.06	89,704.71	611,500.00	14.67
5-200-2005.001 CONTRA ACCT - LAND (	97,991.14) (	507,492.57) (	88,866.50)	0.00	0.00
5-200-2010.000 CAPITAL EXP-BLDG & IMPROVE	20,152.45	0.00	0.00	765,000.00	0.00
5-200-2010.001 CONTRA ACCT - BUILDING (	20,152.45)	0.00	0.00	0.00	0.00
5-200-2015.000 CAPITAL EXP-FURN & FIXTURE	0.00	0.00	0.00	0.00	0.00
5-200-2015.001 CONTRA ACCT - FURN & FIXTU	0.00	0.00	0.00	0.00	0.00
5-200-2020.000 CAPITAL EXP-MACHINERY & EQ	178,703.24	62,392.84	164,048.88	322,960.00	50.80
5-200-2020.001 CONTRA ACCT - MACH & EQUI(	177,013.08) (	57,354.20) (	40,580.70)	0.00	0.00
5-200-2025.000 CAPITAL EXP-VEHICLES	0.00	20.96	27,445.00	27,445.00	100.00
5-200-2025.001 CONTRA ACCT - VEHICLE	0.00	0.00 (	27,445.00)	0.00	0.00
5-200-2030.000 CAPITAL EXP-INFRASTRUCTURE	0.00	0.00	0.00	0.00	0.00
5-200-2030.001 CONTRA ACCT - INFRA	0.00	0.00	0.00	0.00	0.00
5-200-2999.000 DEPRECIATION EXP	154,861.00	217,999.45	248,369.09	0.00	0.00
5-200-3005.000 DEBT-COPS	166,454.41	451,139.71	452,322.09	406,000.00	111.41
5-200-3005.001 CONTRA-DEBT COPS	0.00 (	299,361.70) (	308,297.87)	0.00	0.00
5-200-3020.000 DEBT-LEASE OBLIGATION	0.00	79,393.83	79,005.54	80,000.00	98.76
5-200-3020.001 CONTRA-DEBT LEASE OBLIGATI	0.00 (	77,463.01) (	73,553.61)	0.00	0.00
5-200-5000.000 UTILITIES-GENERAL	0.00	0.00	0.00	0.00	0.00
5-200-5000.001 UTILITIES-ELECTRIC	78,686.96	154,330.96	170,478.17	140,000.00	121.77
5-200-5010.001 UTILITIES-LANDLINE AND FIB	10,836.00	10,836.10	10,887.63	12,000.00	90.73
5-200-5015.001 UTILITIES-CELL PHONES	362.84	423.67	364.39	750.00	48.59
5-200-5020.002 UTILITIES-INTERNET MOBILE	480.14	456.90	1,838.57	500.00	367.71
5-200-5025.001 UTILITIES-SOLID WASTE	1,075.32	1,520.42	2,827.66	2,000.00	141.38

85 -WASTEWATER

EXPENDITURES	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
5-200-6000.001 PROF SERVICES-LEGAL	4,440.90	2,786.11	3,642.15	5,000.00	72.84
5-200-6000.002 PROF SERVICES-ENGINEERING	0.00	737.50	3,182.75	20,000.00	15.91
5-200-6000.003 PROF SERVICES-SURVEYING	96.00	0.00	33.00	2,000.00	1.65
5-200-6000.007 PROF SERVICES-TOXICOLOGY T	87.00	202.40	198.40	250.00	79.36
5-200-6000.008 PROF SERVICES-BCKGRD CHKS	0.00	0.00	28.50	100.00	28.50
5-200-6000.009 PROF SERVICES-COLLECTION A	622.25	1,126.54	1,303.18	1,700.00	76.66
5-200-6000.011 PROF SERVICES-DUES & LICEN	4,404.36	4,517.31	887.47	5,000.00	17.75
5-200-6000.013 PROF SERVICES-STUDIES	0.00	0.00	0.00	0.00	0.00
5-200-6000.015 PROF SERVICES-SERVICE CONT	18,434.30	19,360.59	21,119.41	15,000.00	140.80
5-200-6000.016 PROF SERVICES-TAXES & FEES	10,602.97	7,444.58	677.97	7,500.00	9.04
5-200-6000.017 PROF SERVICES-PILOT	0.00	0.00	0.00	0.00	0.00
5-200-6000.018 PROF SERVICES-DAMAGE CLAIM	2,559.28	2,200.05	150.00	4,000.00	3.75
5-200-6000.019 PROF SERVICES- CC FEES	2,701.43	4,648.73	6,450.67	5,000.00	129.01
5-200-6000.020 PROF SERVICES-LEGAL SETTLE	0.00	0.00	0.00	0.00	0.00
5-200-6005.001 INSURANCE-VEHICLE	2,462.00	6,647.00	4,323.00	6,850.00	63.11
5-200-6005.002 INSURANCE-EQUIPMENT	587.50	401.00	468.00	415.00	112.77
5-200-6005.003 INSURANCE-BLDG & PROPERTY	5,543.68	4,710.51	5,063.76	4,855.00	104.30
5-200-6010.002 ADVERTISING-EMPLOYEE RECRU	0.00	0.00	0.00	500.00	0.00
5-200-6010.003 ADVERTISING-PRINT	102.95	0.00	676.40	100.00	676.40
5-200-6010.006 ADVERTISING-RADIO	46.67	46.67	0.00	100.00	0.00
5-200-6020.000 SOFTWARE-RENEWAL/MAINT	4,238.62	3,108.65	7,253.45	9,135.00	79.40
5-200-6020.001 SOFTWARE-PURCHASE	0.00	70.43	2,486.62	13,550.00	18.35
5-200-6020.002 SOFTWARE-UPGRADE	0.00	0.00	0.00	0.00	0.00
5-200-6020.003 SOFTWARE-AGREEMENT	0.00	0.00	293.10	2,700.00	10.86
5-200-7000.000 SUPPLIES-GENERAL	0.00	0.00	0.00	0.00	0.00
5-200-7000.001 SUPPLIES-OPERATIONAL	12,756.72	12,841.18	13,855.49	12,000.00	115.46
5-200-7000.003 SUPPLIES-DESK ACC-SMALL OF	199.87	1,230.11	540.36	500.00	108.07
5-200-7000.004 SUPPLIES-SMALL TOOLS	0.00	0.00	0.00	0.00	0.00
5-200-7005.001 SUPPLIES-PRINTING	1,496.49	1,462.19	530.87	2,500.00	21.23
5-200-7005.002 SUPPLIES-MAILING	2,277.49	1,974.08	1,415.84	3,500.00	40.45
5-200-7005.003 SUPPLIES-POSTAGE	13,277.48	12,232.89	11,210.30	15,000.00	74.74
5-200-7005.004 SUPPLIES-PAPER	336.60	423.48	641.13	500.00	128.23
5-200-7005.005 SUPPLIES-FORMS	0.00	1,687.58	0.00	250.00	0.00
5-200-7010.001 SUPPLIES-JANITORIAL	307.15	243.08	149.67	500.00	29.93
5-200-7010.004 SUPPLIES-CHEMICALS	13,295.00	15,057.42	12,192.50	13,000.00	93.79
5-200-7015.003 SUPPLIES-FIRST AID	90.05	15.44	3.75	100.00	3.75
5-200-7015.004 SUPPLIES-SAFETY	774.51	787.44	201.00	2,000.00	10.05
5-200-7510.001 MATERIALS-PAINT	133.44	13.84	53.58	500.00	10.72
5-200-7510.003 MATERIALS-FITTINGS	1,486.23	316.77	501.42	2,500.00	20.06
5-200-7510.004 MATERIALS-HARDWARE	2,703.58	4,065.63	2,905.62	3,000.00	96.85
5-200-7510.005 MATERIALS-FIXTURES	18,138.76	15,071.30	10,393.75	10,000.00	103.94
5-200-7510.006 MATERIALS-WIRE	71.00	402.63	0.00	250.00	0.00
5-200-7525.000 MATERIALS-INFRASTRUCTURE M	7,254.06	2,552.50	5,322.58	12,000.00	44.35
5-200-8000.003 TOOLS-SUPPLIES	2,140.34	2,258.06	3,094.01	3,500.00	88.40
5-200-8300.000 EQUIPMENT-GENERAL	0.00	0.00	0.00	0.00	0.00
5-200-8300.001 EQUIPMENT-REPAIR	10,111.66	6,709.54	3,416.71	8,000.00	42.71
5-200-8300.002 EQUIPMENT-MAINTENANCE	3,431.89	1,932.34	1,885.88	2,500.00	75.44
5-200-8300.005 EQUIPMENT-FUEL	237.25	3,926.10	1,200.23	500.00	240.05
5-200-8300.006 EQUIPMENT-RENTAL	0.00	0.00	0.00	0.00	0.00
5-200-8600.000 VEHICLE-GENERAL	0.00	0.00	0.00	0.00	0.00

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EXPENDITURES	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
5-200-8600.001 VEHICLE-REPAIR	304.26	596.53	2,796.33	2,000.00	139.82
5-200-8600.002 VEHICLE-MAINTENANCE	3,971.39	4,643.18	2,848.88	5,000.00	56.98
5-200-8600.005 VEHICLE-FUEL	50.59	18,436.68	8,607.84	13,000.00	66.21
5-200-9900.001 CONTRA ACCT - OTHER	( 3,445.84)	( 1,332.75)	( 3,061.34)	0.00	0.00
5-200-9910.000 INTERNAL SERVICE-PERSONNEL	94,754.56	112,656.38	133,458.62	131,399.00	101.57
5-200-9960.000 INTERNAL SERVICE-PROF SERV	0.00	0.00	0.00	0.00	0.00
5-200-9983.001 INTERNAL SERVICE-VEHICLE R	0.00	0.00	0.00	0.00	0.00
5-200-9983.002 INTERNAL SERVICE-VEHICLE M	0.00	0.00	0.00	0.00	0.00
5-200-9999.000 INTERFUND TRANSFER	0.00	0.00	25,000.00	0.00	0.00
TOTAL WWTP AND OPERATION	1,097,141.52	1,289,571.65	1,492,116.09	3,221,523.00	46.32

WW MAINTENANCE

5-205-1000.001 FULLTIME SALARY	55,515.78	63,590.88	56,201.21	63,085.00	89.09
5-205-1000.002 PARTTIME SALARY	10,350.89	5,233.74	14,738.36	19,990.00	73.73
5-205-1000.004 ON CALL	1,579.72	1,935.54	626.74	3,035.00	20.65
5-205-1000.005 FULLTME OVERTIME	3,056.62	3,463.70	1,254.31	3,580.00	35.04
5-205-1000.006 PART TIME OVERTIME	83.98	329.86	855.06	405.00	211.13
5-205-1000.007 ON CALL OVERTIME	0.00	0.00	0.00	0.00	0.00
5-205-1005.000 BENEFITS-GENERAL	0.00	0.00	0.00	0.00	0.00
5-205-1005.001 HEALTH PREMIUM-EMPLOYEE	3,249.28	5,280.08	10,392.84	7,510.00	138.39
5-205-1005.002 HEALTH PREMIUM FAMILY	11,522.64	8,430.24	5,579.04	12,155.00	45.90
5-205-1005.003 DENTAL PREMIUM-EMPLOYEE	600.08	600.08	553.92	750.00	73.86
5-205-1005.004 DENTAL PREMIUM-FAMILY	0.00	0.00	0.00	0.00	0.00
5-205-1010.001 LIFE INSURANCE	110.24	114.48	112.80	130.00	86.77
5-205-1015.001 LAGERS-GENERAL	7,940.00	8,269.77	5,881.40	9,065.00	64.88
5-205-1015.004 DEFERRED COMP-EMPLOYER	650.00	675.00	250.00	1,300.00	19.23
5-205-1020.000 PAYROLL TAXES-GENERAL	0.00	0.00	0.00	0.00	0.00
5-205-1020.001 FICA-EMPLOYER	4,073.87	4,389.82	4,392.84	5,590.00	78.58
5-205-1020.002 MEDICARE-EMPoyer	952.72	1,026.61	1,027.34	1,310.00	78.42
5-205-1020.003 UNEMPLOYMENT COMPENSATIONS	705.88	745.53	736.73	905.00	81.41
5-205-1020.004 WORKMANS COMPENSATION	6,085.93	2,332.59	3,085.06	2,946.00	104.72
5-205-1025.001 EMPLOYEE-UNIFORM	1,344.56	1,557.35	2,202.18	2,200.00	100.10
5-205-1025.002 EMPLOYEE-DUES/LIC/MEMBERSH	75.00	0.00	46.25	500.00	9.25
5-205-1025.004 EMPLOYEE-TRAVEL/HOTEL	0.00	0.00	0.00	0.00	0.00
5-205-1025.005 EMPLOYEE-TRAINING	263.00	0.00	0.00	500.00	0.00
5-205-2005.001 CONTRA ACCT - LAND	0.00	0.00	0.00	0.00	0.00
5-205-2010.001 CONTRA ACCT - BUILDING	0.00	0.00	0.00	0.00	0.00
5-205-2015.001 CONTRA ACCT - FURN & FIXTU	0.00	0.00	0.00	0.00	0.00
5-205-2020.000 CAPITAL EXP-MACHINERY & EQ	0.00	0.00	0.00	0.00	0.00
5-205-2020.001 CONTRA ACCT - MACH & EQUIP	0.00	0.00	0.00	0.00	0.00
5-205-2025.000 CAPITAL EXP-VEHICLES	0.00	0.00	0.00	0.00	0.00
5-205-2025.001 CONTRA ACCT - VEHICLE	0.00	0.00	0.00	0.00	0.00
5-205-2030.000 CAPITAL EXP-INFRASTRUCTURE	0.00	0.00	0.00	0.00	0.00
5-205-2030.001 CONTRA ACCT - INFRA	0.00	0.00	0.00	0.00	0.00
5-205-2999.000 DEPRECIATION EXP	6,861.89	6,861.89	6,861.89	0.00	0.00
5-205-5015.001 UTILITIES-CELL PHONES	725.68	605.48	364.39	400.00	91.10
5-205-5020.002 UTILITIES-INTERNET MOBILE	0.00	160.04	480.14	500.00	96.03
5-205-6000.007 PROF SERVICES-TOXICOLOGY T	70.00	93.40	50.40	150.00	33.60
5-205-6000.008 PROF SERVICES-MSHP BACKGRO	12.62	13.42	0.00	150.00	0.00
5-205-6000.020 PROF SERVICES-LEGAL SETTLE	0.00	0.00	0.00	0.00	0.00

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EXPENDITURES	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
5-205-6005.001 INSURANCE-VEHICLE	190.80	318.00	65.00	330.00	19.70
5-205-6005.002 INSURANCE-EQUIPMENT	311.50	572.00	459.50	590.00	77.88
5-205-6010.003 ADVERTISING-PRINTING	0.00	0.00	0.00	150.00	0.00
5-205-6020.000 SOFTWARE-RENEWAL/MAINT	0.00	0.00	0.00	0.00	0.00
5-205-7000.001 SUPPLIES-OPERATIONAL	103.91	4.99	0.00	100.00	0.00
5-205-7000.004 SUPPLIES-SMALL TOOLS	839.67	550.00	191.47	1,000.00	19.15
5-205-7005.003 SUPPLIES-POSTAGE	0.00	14.50	0.00	0.00	0.00
5-205-7015.004 SUPPLIES-SAFETY	754.81	1,112.96	491.27	3,000.00	16.38
5-205-7500.001 MATERIALS-ASPHALT	1,336.02	5,059.48	4,854.55	17,500.00	27.74
5-205-7500.002 MATERIALS-ROCK	3,812.08	1,730.03	3,443.19	8,000.00	43.04
5-205-7500.003 MATERIALS-CONCRETE	37.73	4,683.66	2,892.00	3,000.00	96.40
5-205-7500.004 MATERIALS-LANDSCAPING	347.50	449.50	250.00	1,500.00	16.67
5-205-7505.002 MATERIALS-PIPE-PVC	19.60	710.62	0.00	2,500.00	0.00
5-205-7505.003 MATERIALS-PIPE-MISC	7.55	0.00	0.00	1,500.00	0.00
5-205-7505.006 MATERIALS-PRECAST	3,761.84	6,327.04	5,563.00	7,500.00	74.17
5-205-7510.003 MATERIALS-FITTINGS	3,273.86	4,734.20	1,041.02	6,000.00	17.35
5-205-7525.001 MATERIALS-INFRASTRUCTURE M	2,980.69	5,516.24	2,548.93	6,000.00	42.48
5-205-8000.003 TOOLS-SUPPLIES	0.00	0.00	0.00	0.00	0.00
5-205-8300.001 EQUIPMENT-REPAIR	3,507.96	1,668.61	1,233.08	7,500.00	16.44
5-205-8300.002 EQUIPMENT-MAINTENANCE	3,863.36	5,236.97	2,092.84	7,500.00	27.90
5-205-8300.005 EQUIPMENT-FUEL	2,247.03	284.67	1,694.79	11,000.00	15.41
5-205-8300.006 EQUIPMENT-RENTAL	150.00	150.00	4,635.00	5,000.00	92.70
5-205-8600.001 VEHICLE-REPAIR	30.65	190.89	0.00	500.00	0.00
5-205-8600.002 VEHICLE-MAINTENANCE	855.10	481.08	256.38	1,000.00	25.64
5-205-8600.005 VEHICLE-FUEL	1,703.50	4,716.19	7,532.66	3,000.00	251.09
5-205-9900.001 CONTRA ACCT - OTHER	(36,379.22)	(25,871.68)	(9,003.93)	0.00	0.00
TOTAL WW MAINTENANCE	109,586.32	134,349.45	145,933.65	230,326.00	63.36

INFLOW & INFILTRATION

5-215-1000.001 FULLTIME SALARY	166,380.48	160,788.55	189,746.62	189,250.00	100.26
5-215-1000.002 PART TIME SALARY	7,311.97	18,123.01	0.00	18,830.00	0.00
5-215-1000.004 ON CALL	2,142.26	3,832.90	4,613.01	6,370.00	72.42
5-215-1000.005 FULLTIME OVERTIME	2,130.94	3,741.94	7,264.54	6,945.00	104.60
5-215-1000.006 PART TIME OVERTIME	0.00	1,251.84	0.00	530.00	0.00
5-215-1000.007 ON CALL OVERTIME	0.00	0.00	0.00	0.00	0.00
5-215-1005.000 BENEFITS-GENERAL	0.00	0.00	0.00	0.00	0.00
5-215-1005.001 HEALTH PREMIUM-EMPLOYEE	2,843.12	2,843.12	7,505.94	7,510.00	99.95
5-215-1005.002 HEALTH PREMIUM-FAMILY	39,920.10	30,960.54	53,637.35	50,860.00	105.46
5-215-1005.003 DENTAL PREMIUM-EMPLOYEE	1,384.80	1,211.70	1,500.20	1,500.00	100.01
5-215-1010.001 LIFE INSURANCE	254.40	231.08	312.00	315.00	99.05
5-215-1015.001 LAGERS-GENERALS	22,526.32	16,106.33	26,155.70	26,333.00	99.33
5-215-1015.004 DEFERRED COMP-EMPLOYER	1,825.00	1,700.00	1,950.00	3,250.00	60.00
5-215-1020.000 PAYROLL TAXES-GENERAL	0.00	0.00	0.00	0.00	0.00
5-215-1020.001 FICA-EMPLOYER	10,089.98	10,735.50	11,104.25	13,760.00	80.70
5-215-1020.002 MEDICARE-EMPLOYER	2,359.92	2,510.65	2,597.06	3,220.00	80.65
5-215-1020.003 UNEMPLOYMENT COMPENSATIONS	1,779.35	1,877.47	2,012.04	2,220.00	90.63
5-215-1020.004 WORKMANS COMPENSATION	6,086.24	2,332.32	3,084.31	2,945.00	104.73
5-215-1025.001 EMPLOYEE-UNIFORMS	3,402.83	3,433.85	3,983.65	5,500.00	72.43
5-215-1025.002 EMPLOYEE-DUES/LIC/MEMBERSH	346.25	411.00	300.00	500.00	60.00
5-215-1025.004 EMPLOYEE-TRAVEL/HOTEL	0.00	0.00	0.00	0.00	0.00

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EXPENDITURES	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
5-215-1025.005 EMPLOYEE-TRAINING	3,063.00	879.00	1,400.75	3,500.00	40.02
5-215-1025.009 EMPLOYEE-TUITION ASSISTANC	0.00	0.00	0.00	0.00	0.00
5-215-2005.001 CONTRA ACCT - LAND	0.00	0.00	0.00	0.00	0.00
5-215-2010.001 CONTRA ACCT - BUILDING	0.00	0.00	0.00	0.00	0.00
5-215-2015.001 CONTRA ACCT - FURN & FIXTU	0.00	0.00	0.00	0.00	0.00
5-215-2020.000 CAPITAL EXP-MACHINERY & EQ	0.00	0.00	0.00	0.00	0.00
5-215-2020.001 CONTRA ACCT - MACH & EQUIP	0.00	0.00	0.00	0.00	0.00
5-215-2025.000 CAPITAL EXP-VEHICLES	0.00	0.00	0.00	0.00	0.00
5-215-2025.001 CONTRA ACCT - VEHICLE	0.00	0.00	0.00	0.00	0.00
5-215-2030.001 CONTRA ACCT - INFRA	0.00	0.00	0.00	0.00	0.00
5-215-2999.000 DEPRECIATION EXP	6,140.04	6,140.04	6,140.04	0.00	0.00
5-215-5015.001 UTILITIES-CELL PHONES	0.00	149.18	728.78	750.00	97.17
5-215-5020.002 UTILITIES-INTERNET MOBILE	0.00	0.00	344.16	1,000.00	34.42
5-215-6000.001 PROF SERVICES-LEGAL	0.00	0.00	0.00	5,000.00	0.00
5-215-6000.002 PROF SERVICES-ENGINEERING	6,708.56	0.00	0.00	5,000.00	0.00
5-215-6000.007 PROF SERVICES-TOXICOLOGY T	296.00	223.40	45.40	400.00	11.35
5-215-6000.008 PROF SERVICES-MSHP BACKGRD	37.67	0.00	0.00	100.00	0.00
5-215-6000.015 PROF SERVICES-SERVICE CONT	1,050.00	360.00	0.00	5,000.00	0.00
5-215-6000.020 PROF SERVICES-LEGAL SETTLE	0.00	0.00	0.00	0.00	0.00
5-215-6005.001 INSURANCE-VEHICLE	8,297.00	8,085.00	11,852.00	8,330.00	142.28
5-215-6005.002 INSURANCE-EQUIPMENT	184.00	103.00	103.00	110.00	93.64
5-215-6010.003 ADVERTISING-PRINTING	0.00	0.00	0.00	0.00	0.00
5-215-6020.000 SOFTWARE-RENEWAL/MAINT	1,500.00	1,500.00	1,500.00	1,500.00	100.00
5-215-6020.002 SOFTWARE-UPGRADE	0.00	0.00	0.00	20,600.00	0.00
5-215-7000.001 SUPPLIES-OPERATIONAL	132.84	262.36	339.85	500.00	67.97
5-215-7000.004 SUPPLIES-SMALL TOOLS	410.92	466.35	1,029.87	1,000.00	102.99
5-215-7005.003 SUPPLIES-POSTAGE	952.20	184.22	129.16	1,000.00	12.92
5-215-7010.004 SUPPLIES-CHEMICALS	0.00	0.00	0.00	0.00	0.00
5-215-7015.004 SUPPLIES-SAFETY	813.11	2,669.18	1,500.21	2,800.00	53.58
5-215-7510.001 MATERIALS-PAINT	34.97	11.98	67.12	500.00	13.42
5-215-7510.003 MATERIALS-FITTINGS	66.51	135.12	115.94	500.00	23.19
5-215-7510.004 MATERIALS-HARDWARE	7,884.50	6,151.40	1,282.15	7,500.00	17.10
5-215-7510.005 MATERIALS-FIXTURES	47,224.25	31,336.04	8,866.05	10,000.00	88.66
5-215-7510.006 MATERIALS-WIRE	6.43	389.57	100.47	750.00	13.40
5-215-7525.001 MATERIALS-INFRASTRUCTURE M	10,186.89	6,821.62	3,212.96	7,500.00	42.84
5-215-8000.003 TOOLS-SUPPLIES	0.00	0.00	0.00	0.00	0.00
5-215-8300.001 EQUIPMENT-REPAIR	7,719.66	2,245.26	8,299.70	7,500.00	110.66
5-215-8300.002 EQUIPMENT-MAINTENANCE	4,186.68	2,522.80	3,185.14	4,000.00	79.63
5-215-8300.006 EQUIPMENT-RENTAL	3,041.00	( 1,494.00)	464.00	4,000.00	11.60
5-215-8600.001 VEHICLE-REPAIR	7,949.73	1,406.28	190.86	4,000.00	4.77
5-215-8600.002 VEHICLE-MAINTENANCE	6,375.10	5,441.99	6,029.55	8,000.00	75.37
5-215-8600.005 VEHICLE-FUEL	0.00	5,038.21	14,983.96	17,000.00	88.14
5-215-9900.001 CONTRA ACCT - OTHER	0.00	( 576.92)	( 57.17)	0.00	0.00
TOTAL INFLOW & INFILTRATION	395,045.02	342,542.88	387,620.62	467,678.00	82.88

TOTAL EXPENDITURES	1,601,772.86	1,766,463.98	2,025,670.36	3,919,527.00	51.68
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FINANCIAL SUMMARY

2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
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REVENUE SUMMARY

WATER OPERATION	1,814,925.03	1,908,228.16	1,855,247.90	1,964,200.00	94.45
TOTAL REVENUES	1,814,925.03	1,908,228.16	1,855,247.90	1,964,200.00	94.45

EXPENDITURE SUMMARY

WATER OPERATION	1,776,714.44	1,908,952.19	1,677,541.34	1,744,967.00	96.14
WATER MAINT. & DISTRIB.	286,196.70	339,104.62	331,775.80	481,723.00	68.87
TOTAL EXPENDITURES	2,062,911.14	2,248,056.81	2,009,317.14	2,226,690.00	90.24
REVENUE OVER/ (UNDER) EXPENDITURES	( 247,986.11)	( 339,828.65)	( 154,069.24)	( 262,490.00)	58.70

87 -WATER

REVENUES	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
<b><u>WATER OPERATION</u></b>					
4-200-2005.001 GRANTS-OPERATIVE	8,754.90	0.00	0.00	0.00	0.00
4-200-3000.011 TURN ON FEES	17,928.48	18,565.75	13,781.07	14,000.00	98.44
4-200-3000.012 CUSTOMER BILLING	1,668,527.25	1,675,936.96	1,671,040.43	1,850,000.00	90.33
4-200-3000.013 PENALTIES	24,276.24	23,471.96	21,716.62	25,000.00	86.87
4-200-3000.016 FACILITY IMPACT	12,375.00	3,525.00	25,850.00	20,000.00	129.25
4-200-3000.017 PWSD #3 SPECIAL METER FEE	0.00	( 0.09)	417.81	0.00	0.00
4-200-3000.020 REDEVELOPMENT PROJ. REVENUE	0.00	0.00	0.00	0.00	0.00
4-200-3000.021 LEASE AGREEMENTS-TOWERS	29,823.07	30,227.58	28,923.64	28,000.00	103.30
4-200-3000.031 UTILITY ADMINISTRATION FEE	0.00	0.00	0.00	0.00	0.00
4-200-3010.001 MISC-BOND PROCEEDS	5,549.73	5,641.00	5,646.97	0.00	0.00
4-200-3010.004 MISC-INVESTMENT INCOME	2,107.86	3,964.73	4,200.47	1,200.00	350.04
4-200-3010.006 MISC-MISCELLANEOUS	2,358.14	23,522.67	7,550.52	1,000.00	755.05
4-200-3010.008 MISC-GAIN/LOSS-ASSET DISPO	800.00	2,650.00	0.00	0.00	0.00
4-200-3010.010 MISC-LEASE PROCEEDS	0.00	0.00	0.00	0.00	0.00
4-200-3010.012 MISC-PURCHASING CARD REBAT	0.00	0.00	127.11	0.00	0.00
4-200-3010.014 INSURANCE RECOVERIES	0.00	35,417.00	3,349.36	0.00	0.00
4-200-3999.000 CAPITAL ASSET TRANSFER	23,553.00	57,805.60	31,218.90	0.00	0.00
4-200-4005.003 PERMITS-WATER	18,871.36	27,500.00	41,425.00	25,000.00	165.70
<b>TOTAL WATER OPERATION</b>	<b>1,814,925.03</b>	<b>1,908,228.16</b>	<b>1,855,247.90</b>	<b>1,964,200.00</b>	<b>94.45</b>
<b>TOTAL REVENUES</b>	<b>1,814,925.03</b>	<b>1,908,228.16</b>	<b>1,855,247.90</b>	<b>1,964,200.00</b>	<b>94.45</b>

87 -WATER

EXPENDITURES	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
<b>WATER OPERATION</b>					
5-200-1000.001 FULLTIME SALARY	237,994.16	254,661.69	250,796.82	261,685.00	95.84
5-200-1000.002 PARTTIME SALARY	27,850.65	36,809.81	0.00	0.00	0.00
5-200-1000.004 ON CALL	2,118.38	4,560.84	4,600.03	5,725.00	80.35
5-200-1000.005 FULLTIME OVERTIME	12,429.17	10,473.33	9,081.58	6,165.00	147.31
5-200-1000.006 PARTTIME OVERTIME	167.96	1,365.80	0.00	0.00	0.00
5-200-1000.007 ON CALL OVERTIME	0.00	0.00	0.00	0.00	0.00
5-200-1005.000 BENEFITS-GENERAL	0.00	0.00	0.00	0.00	0.00
5-200-1005.001 HEALTH PREMIUM-EMPLOYEE	11,964.40	2,060.80	3,175.59	0.00	0.00
5-200-1005.002 HEALTH PREMIUM-FAMILY	37,349.11	45,681.96	59,056.81	50,860.00	116.12
5-200-1005.003 DENTAL PREMIUM-EMPLOYEE	1,212.51	1,663.32	1,520.21	1,200.00	126.68
5-200-1005.004 DENTAL PREMIUM-FAMILY	426.40	98.40	0.00	600.00	0.00
5-200-1010.001 LIFE INSURANCE	320.27	318.27	342.59	380.00	90.16
5-200-1015.001 LAGERS-GENERAL	54,583.57	36,499.53	31,785.30	35,565.00	89.37
5-200-1015.004 DEFERRED COMP-EMPLOYER	2,475.00	2,425.00	1,975.00	3,900.00	50.64
5-200-1020.000 PAYROLL TAXES-GENERAL	0.00	0.00	0.00	0.00	0.00
5-200-1020.001 FICA-EMPLOYER	16,536.37	18,038.11	15,206.83	16,965.00	89.64
5-200-1020.002 MEDICARE-EMPLOYER	3,867.15	4,218.59	3,556.36	3,970.00	89.58
5-200-1020.003 UNEMPLOYMENT COMPENSATION	2,805.37	3,072.31	2,630.19	2,740.00	95.99
5-200-1020.004 WORKMANS COMPENSATION	7,380.73	6,471.05	8,254.07	7,881.00	104.73
5-200-1025.001 EMPLOYEE-UNIFORMS	1,333.22	3,418.16	3,170.30	4,100.00	77.32
5-200-1025.002 EMPLOYEE-DUES/LIC/MEMBERSH	246.25	81.25	162.15	500.00	32.43
5-200-1025.004 EMPLOYEE-TRAVEL/HOTEL	287.37	541.84	1,230.19	1,200.00	102.52
5-200-1025.005 EMPLOYEE-TRAINING	1,845.65	848.00	3,239.64	3,000.00	107.99
5-200-1025.007 EMPLOYEE-BONDS	175.00	175.00	175.00	200.00	87.50
5-200-2005.000 CAPITAL EXP-LAND & IMPROVE	89,466.71	58,383.92	58,769.13	99,000.00	59.36
5-200-2005.001 CONTRA ACCT - LAND (	77,243.58) (	50,299.27) (	58,044.13)	50,000.00	116.09-
5-200-2010.000 CAPITAL EXP-BLDG & IMPROVE	0.00	64,362.00	144,813.54	0.00	0.00
5-200-2010.001 CONTRA ACCT - BUILDING	0.00 (	64,362.00) (	39,988.00)	0.00	0.00
5-200-2015.000 CAPITAL EXP-FURN & FIXTURE	0.00	0.00	0.00	0.00	0.00
5-200-2015.001 CONTRA ACCT - FURN & FIXTU	0.00	0.00	0.00	0.00	0.00
5-200-2020.000 CAPITAL EXP-MACHINERY & EQ	705,029.21	877,912.40	500,853.47	413,881.00	121.01
5-200-2020.001 CONTRA ACCT - MACH & EQUI(	67,575.21) (	105,236.92) (	79,184.06)	0.00	0.00
5-200-2025.000 CAPITAL EXP-VEHICLES	124,498.07	43,903.48	0.00	0.00	0.00
5-200-2025.001 CONTRA ACCT - VEHICLE (	124,175.00) (	43,893.00)	0.00	0.00	0.00
5-200-2030.000 CAPITAL EXP-INFRASTRUCTURE	0.00	0.00	0.00	0.00	0.00
5-200-2030.001 CONTRA ACCT - INFRA	0.00	0.00	0.00	0.00	0.00
5-200-2999.000 DEPRECIATION EXP	107,571.01	96,059.30	129,619.13	0.00	0.00
5-200-3000.001 AMORTIZATION OF SETTLEMEN	0.00	10,292.00	0.00	0.00	0.00
5-200-3005.000 DEBT-COPS	19,850.61	55,414.77	53,852.93	53,600.00	100.47
5-200-3005.001 CONTRA-DEBT COPS	0.00 (	35,638.30) (	36,702.13)	0.00	0.00
5-200-3020.000 DEBT-LEASE PURCHASE	0.00	0.00	125.00	15,000.00	0.83
5-200-5000.001 UTILITIES-ELECTRIC	227,326.54	216,640.49	240,709.79	220,000.00	109.41
5-200-5015.001 UTILITIES-CELL PHONES	2,536.96	1,995.29	1,062.27	1,350.00	78.69
5-200-5020.002 UTILITIES-INTERNET MOBILE	0.00	480.14	1,440.38	1,500.00	96.03
5-200-6000.001 PROF SERVICES-LEGAL	3,245.60	2,786.11	3,642.20	5,000.00	72.84
5-200-6000.002 PROF SERVICES-ENGINEERING	1,324.79	10,181.50	0.00	40,000.00	0.00
5-200-6000.003 PROF SERVICES-SURVEYING	785.00	0.00	155.11	2,500.00	6.20

87 -WATER

EXPENDITURES	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
5-200-6000.007 PROF SERVICES-TOXICOLOGY T	188.00	353.40	66.40	400.00	16.60
5-200-6000.008 PROF SERVICES-MSHP BACKGRD	13.25	71.75	0.00	150.00	0.00
5-200-6000.009 PROF SERVICES-COLLECTION A	627.21	1,126.59	1,149.88	2,000.00	57.49
5-200-6000.011 PROF SERVICES-DUES & LICE	7,241.32	7,176.88	2,330.56	8,500.00	27.42
5-200-6000.013 PROF SERVICES-STUDIES	0.00	0.00	0.00	0.00	0.00
5-200-6000.015 PROF SERVICES-SERVICE CONT	9,210.46	11,287.98	15,299.31	22,500.00	68.00
5-200-6000.016 PROF SERVICES-TAXES AND FE	24,531.83	24,767.97	24,965.65	26,000.00	96.02
5-200-6000.017 PROF SERVICES-PILOT	83,429.36	83,796.85	83,552.02	92,500.00	90.33
5-200-6000.018 PROF SERVICES-DAMAGE CLAIM	400.00	1,563.20	255.00	2,500.00	10.20
5-200-6000.019 PROF SERVICES-CC FEES	1,671.16	3,111.22	4,317.00	3,500.00	123.34
5-200-6000.020 PROF SERVICES-LEGAL SETTLE	0.00	0.00	0.00	0.00	0.00
5-200-6005.001 INSURANCE-VEHICLE	1,715.00	2,381.00	3,080.00	2,335.00	131.91
5-200-6005.002 INSURANCE-EQUIPMENT	103.50	63.00	151.50	0.00	0.00
5-200-6005.003 INSURANCE-BLDG & PROPERTY	8,901.68	8,299.51	8,802.74	8,550.00	102.96
5-200-6005.007 INSURANCE-CITY GOVERNMENT	6,365.00	7,012.00	4,045.00	7,225.00	55.99
5-200-6010.002 ADV-EMPLOYEE RECRUITMENT	0.00	0.00	0.00	0.00	0.00
5-200-6010.003 ADVERTISING-PRINT	23.10	0.00	699.63	0.00	0.00
5-200-6010.006 ADVERTISING-RADIO	46.67	46.66	0.00	150.00	0.00
5-200-6020.000 SOFTWARE-RENEWAL/MAINT	2,676.88	3,107.05	9,465.67	7,455.00	126.97
5-200-6020.001 SOFTWARE-PURCHASE	0.00	46.95	2,486.62	13,450.00	18.49
5-200-6020.002 SOFTWARE-UPGRADE	0.00	0.00	0.00	0.00	0.00
5-200-6020.003 SOFTWARE-AGREEMENT	0.00	0.00	293.10	2,700.00	10.86
5-200-7000.001 SUPPLIES-OPERATIONAL	4,755.19	5,065.15	3,655.33	5,000.00	73.11
5-200-7000.003 SUPPLIES-DESK ACC-SMALL OF	336.95	1,038.30	314.13	1,000.00	31.41
5-200-7005.001 SUPPLIES-PRINTING	1,266.93	2,480.60	2,511.52	2,000.00	125.58
5-200-7005.002 SUPPLIES-MAILING	2,283.97	2,033.85	1,490.89	3,500.00	42.60
5-200-7005.003 SUPPLIES-POSTAGE	13,444.23	12,270.27	11,413.20	15,000.00	76.09
5-200-7005.004 SUPPLIES-PAPER	309.06	196.65	797.01	500.00	159.40
5-200-7005.005 SUPPLIES-FORMS	0.00	1,687.58	0.00	1,000.00	0.00
5-200-7005.006 SUPPLIES-PROMOTIONAL	0.00	615.95	1,005.06	1,500.00	67.00
5-200-7010.003 SUPPLIES-BREAK ROOM	1,684.28	3,494.34	2,933.40	2,500.00	117.34
5-200-7010.004 SUPPLIES-CHEMICALS	12,294.15	13,539.52	8,217.24	20,000.00	41.09
5-200-7015.004 SUPPLIES-SAFETY	909.63	625.48	191.71	2,250.00	8.52
5-200-7500.001 MATERIALS-ASPHALT	0.00	0.00	635.96	10,000.00	6.36
5-200-7525.001 MATERIALS-INFRASTRUCTURE M	0.00	0.00	0.00	0.00	0.00
5-200-8000.003 TOOLS-SUPPLIES	2,789.27	2,441.31	1,441.50	2,300.00	62.67
5-200-8300.001 EQUIPMENT-REPAIR	9,512.20	13,120.70	3,204.25	10,000.00	32.04
5-200-8300.002 EQUIPMENT-MAINTENANCE	9,533.45	2,342.90	149.62	3,000.00	4.99
5-200-8300.006 EQUIPMENT-RENTAL	0.00	0.00	0.00	0.00	0.00
5-200-8600.001 VEHILCE-REPAIR	896.08	262.42	382.35	1,000.00	38.24
5-200-8600.002 VEHICLE-MAINTENANCE	1,350.74	1,274.41	1,535.59	1,000.00	153.56
5-200-8600.005 VEHICLE-FUEL	34,957.87	13,094.32	7,436.26	12,000.00	61.97
5-200-9900.001 CONTRA ACCT - OTHER (	2,251.74) (	15,939.99) (	1,003.50)	0.00	0.00
5-200-9910.000 INTERNAL SERVICE-PERSONNEL	99,489.09	122,631.45	124,186.45	143,035.00	86.82
5-200-9960.000 INTERNAL SERVICE-PROF SERV	0.00	0.00	0.00	0.00	0.00
5-200-9999.000 INTERFUND TRANSFER	( 0.73)	0.00	25,000.00	0.00	0.00
TOTAL WATER OPERATION	1,776,714.44	1,908,952.19	1,677,541.34	1,744,967.00	96.14

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EXPENDITURES	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
<b><u>WATER MAINT. &amp; DISTRIB.</u></b>					
5-205-1000.001 FULLTIME SALARY	116,457.66	118,903.28	135,205.79	134,770.00	100.32
5-205-1000.002 PARTTIME SALARY	14,714.61	17,316.58	11,980.50	19,990.00	59.93
5-205-1000.004 ON CALL	5,840.96	4,488.58	4,034.44	5,185.00	77.81
5-205-1000.005 FULLTIME OVERTIME	12,297.86	9,613.41	11,240.63	20,910.00	53.76
5-205-1000.006 PARTTIME OVERTIME	214.61	265.31	303.92	405.00	75.04
5-205-1000.007 ON CALL OVERTIME	0.00	0.00	0.00	0.00	0.00
5-205-1005.000 BENEFITS-GENERAL	0.00	0.00	0.00	0.00	0.00
5-205-1005.001 HEALTH PREMIUM-EMPLOYEE	8,490.12	11,340.16	15,791.88	15,795.00	99.98
5-205-1005.002 HEALTH PREMIUM-FAMILY	24,198.78	15,480.15	28,209.22	17,715.00	159.24
5-205-1005.003 DENTAL PREMIUM-EMPLOYEE	1,142.46	1,027.06	1,200.16	1,300.00	92.32
5-205-1005.004 DENTAL PREMIUM-FAMILY	0.00	0.00	0.00	0.00	0.00
5-205-1010.001 LIFE INSURANCE	209.88	195.04	249.60	255.00	97.88
5-205-1015.001 LAGERS-GENERAL	16,024.24	15,378.96	19,562.53	20,912.00	93.55
5-205-1015.004 DEFERRED COMP-EMPLOYER	1,500.00	950.00	1,300.00	2,600.00	50.00
5-205-1020.000 PAYROLL TAXES-GENERAL	0.00	0.00	0.00	0.00	0.00
5-205-1020.001 FICA-EMPLOYER	8,711.44	8,977.09	9,482.23	11,240.00	84.36
5-205-1020.002 MEDICARE-EMPLOYER	2,037.37	2,099.51	2,217.63	2,630.00	84.32
5-205-1020.003 UNEMPLOYMENT COMPENSATIONS	1,495.17	1,505.84	1,627.61	1,815.00	89.68
5-205-1020.004 WORKMANS COMPENSATION	7,380.47	6,471.00	8,254.07	7,881.00	104.73
5-205-1025.001 EMPLOYEE-UNIFORMS	2,599.86	3,457.08	2,897.70	4,500.00	64.39
5-205-1025.002 EMPLOYEE-DUES/LIC/MEMBERSH	91.25	101.75	0.00	250.00	0.00
5-205-1025.004 EMPLOYEE-TRAVEL/HOTEL	0.00	0.00	0.00	0.00	0.00
5-205-1025.005 EMPLOYEE TRAINING	657.50	738.00	835.00	1,500.00	55.67
5-205-2005.001 CONTRA ACCT - LAND	0.00	0.00	0.00	0.00	0.00
5-205-2010.001 CONTRA ACCT - BUILDING	0.00	0.00	0.00	0.00	0.00
5-205-2015.001 CONTRA ACCT - FURN & FIXTU	0.00	0.00	0.00	0.00	0.00
5-205-2020.000 CAPITAL EXP-MACHINERY & EQ	660.00	0.00	0.00	0.00	0.00
5-205-2020.001 CONTRA ACCT - MACH & EQUIP	0.00	0.00	0.00	0.00	0.00
5-205-2025.001 CONTRA ACCT - VEHICLE	0.00	0.00	0.00	0.00	0.00
5-205-2030.001 CONTRA ACCT - INFRA	0.00	0.00	0.00	0.00	0.00
5-205-2999.000 DEPRECIATION EXP	0.00	0.00	0.00	0.00	0.00
5-205-5015.001 UTILITIES-CELL PHONES	362.84	363.23	364.39	750.00	48.59
5-205-5020.002 UTILITIES-INTERNET MOBILE	0.00	412.16	480.12	500.00	96.02
5-205-6000.007 PROF SERVICES-TOXICOLOGY T	97.00	410.40	97.40	350.00	27.83
5-205-6000.008 PROF SERVICES-MSHP BACKGRD	24.88	14.25	0.00	100.00	0.00
5-205-6000.020 PROF SERVICES-LEGAL SETTLE	0.00	0.00	0.00	0.00	0.00
5-205-6005.001 INSURANCE-VEHICLES	5,732.00	4,986.00	4,943.00	5,140.00	96.17
5-205-6005.002 INSURANCE-EQUIPMENT	210.50	466.00	581.50	480.00	121.15
5-205-7000.001 SUPPLIES-OPERATIONAL	119.84	106.89	146.04	250.00	58.42
5-205-7000.004 SUPPLIES-SMALL TOOLS	2,749.41	2,189.48	2,524.35	2,500.00	100.97
5-205-7015.004 SUPPLIES-SAFETY	918.89	1,177.42	707.05	2,000.00	35.35
5-205-7500.001 MATERIALS-ASPHALT	7,917.66	18,538.30	17,571.45	25,000.00	70.29
5-205-7500.002 MATERIALS-ROCK	12,094.21	9,371.03	7,635.66	12,000.00	63.63
5-205-7500.003 MATERIALS-CONCRETE	3,946.72	6,372.26	4,052.16	5,000.00	81.04
5-205-7500.004 MATERIALS-LANDSCAPING	3,071.62	1,826.00	675.58	1,500.00	45.04
5-205-7505.001 MATERIALS-PIPE-HDPE	0.00	0.00	0.00	500.00	0.00
5-205-7505.002 MATERIALS-PIPE-PVC	1,221.09	4,955.93	627.61	5,000.00	12.55
5-205-7505.003 MATERIALS-PIPE-MISC	9.00	873.26	1,003.48	1,000.00	100.35

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EXPENDITURES	2015-2016 YTD ACTUAL	2016-2017 YTD ACTUAL	2017-2018 YTD ACTUAL	2017-2018 BUDGET	PERCENT BUDGET
5-205-7510.003 MATERIALS-FITTINGS	11,751.48	14,752.07	14,178.35	15,000.00	94.52
5-205-7510.005 MATERIALS-FIXTURES	11,865.56	14,055.04	16,977.24	15,000.00	113.18
5-205-7520.001 MATERIALS-METERS	25,882.61	27,519.14	8,127.67	52,000.00	15.63
5-205-7525.001 MATERIALS-INFRASTRUCTURE M	6,401.93	9,543.80	7,143.89	10,000.00	71.44
5-205-7530.001 MATERIALS-SCADA	799.99	0.00	184.73	1,000.00	18.47
5-205-8000.003 TOOLS-SUPPLIES	930.53	0.00	0.00	0.00	0.00
5-205-8300.001 EQUIPMENT-REPAIR	3,409.22	3,507.36	2,969.82	10,000.00	29.70
5-205-8300.002 EQUIPMENT-MAINTENANCE	7,469.74	8,370.65	5,821.56	7,500.00	77.62
5-205-8300.005 EQUIPMENT-FUEL	24.13	1,165.62	2,752.96	6,500.00	42.35
5-205-8300.006 EQUIPMENT-RENTAL	( 150.00)	10,697.01	566.00	5,000.00	11.32
5-205-8600.001 VEHICLE-REPAIR	6,125.16	14,399.94	4,359.78	7,000.00	62.28
5-205-8600.002 VEHICLE-MAINTENANCE	3,292.09	5,331.14	5,094.64	5,000.00	101.89
5-205-8600.005 VEHICLE-FUEL	66.57	3,187.21	7,399.53	16,000.00	46.25
5-205-9900.001 CONTRA ACCT - OTHER	( 54,872.21)	( 43,795.77)	( 39,603.07)	0.00	0.00
TOTAL WATER MAINT. & DISTRIB.	286,196.70	339,104.62	331,775.80	481,723.00	68.87
 TOTAL EXPENDITURES	 2,062,911.14	 2,248,056.81	 2,009,317.14	 2,226,690.00	 90.24

\*\*\* END OF REPORT \*\*\*

# AMORTIZATION SCHEDULE

Principal \$380,120.00	Loan Date 07-15-2016	Maturity 10-15-2020	Loan No	Call / Coll	Account	Officer	Initials <i>SP</i>
References in the boxes above are for Lender's use only and do not limit the applicability of this document to any particular loan or item. Any item above containing "****" has been omitted due to text length limitations.							

**Borrower:** City of Lebanon

**Lender:** FIRST STATE COMMUNITY BANK  
Main Bank  
201 E Columbia  
Farmington, MO 63640

**Disbursement Date:** July 15, 2016  
**Interest Rate:** 1.890

**Repayment Schedule:** Installment  
**Calculation Method:** 365/365 U.S. Rule

Payment Number	Payment Date	Payment Amount	Interest Paid	Principal Paid	Remaining Balance
1	10-15-2016	79,273.83	1,810.82	77,463.01	302,656.99
2	10-15-2017	79,273.83	5,720.22	73,553.61	229,103.38
3	10-15-2018	79,273.83	4,330.06	74,943.77	154,159.61
4	10-15-2019	79,273.83	2,913.61	76,360.22	77,799.39
5	10-15-2020	79,273.83	1,474.44	77,799.39	0.00

**TOTALS:** 396,369.15 16,249.15 380,120.00

**NOTICE:** This is an estimated loan amortization schedule. Actual amounts may vary if payments are made on different dates or in different amounts.

## ***City of Lebanon, Missouri***

*Certificates of Participation*

*Series 2010*

*Debt Service*

*(Issue Summary)*

<b>Date</b>	<b>Principal</b>	<b>Interest</b>	<b>Build America Subsidy</b>	<b>Total Adjusted Debt Service</b>	<b>Debt Service Reserve Fund <sup>1</sup></b>	<b>Total Net Debt Service</b>
5/1/2011	150,000.00	103,063.82	(28,297.84)	224,765.98	(2,808.75)	221,957.23
11/1/2011	-	101,275.00	(27,986.88)	73,288.12	(2,777.89)	70,510.23
5/1/2012	300,000.00	101,275.00	(27,986.88)	373,288.12	(2,777.89)	370,510.23
11/1/2012	-	99,025.00	(27,986.88)	71,038.12	(2,777.89)	68,260.23
5/1/2013	305,000.00	99,025.00	(27,986.88)	376,038.12	(2,777.89)	373,260.23
11/1/2013	-	96,127.50	(27,986.88)	68,140.62	(2,777.89)	65,362.73
5/1/2014	310,000.00	96,127.50	(27,986.88)	378,140.62	(2,777.89)	375,362.73
11/1/2014	-	92,717.50	(27,986.88)	64,730.62	(2,777.89)	61,952.73
5/1/2015	320,000.00	92,717.50	(27,986.88)	384,730.62	(2,777.89)	381,952.73
11/1/2015	-	88,877.50	(27,986.88)	60,890.62	(2,777.89)	58,112.73
5/1/2016	325,000.00	88,877.50	(27,986.88)	385,890.62	(2,777.89)	383,112.73
11/1/2016	-	84,652.50	(27,986.88)	56,665.62	(2,777.89)	53,887.73
5/1/2017	335,000.00	84,652.50	(27,986.88)	391,665.62	(105,027.89)	286,637.73
11/1/2017	-	79,962.50	(27,986.88)	51,975.62	(1,547.50)	50,428.12
5/1/2018	345,000.00	79,962.50	(27,986.88)	396,975.62	(1,547.50)	395,428.12
11/1/2018	-	72,200.00	(25,270.00)	46,930.00	(1,547.50)	45,382.50
5/1/2019	355,000.00	72,200.00	(25,270.00)	401,930.00	(1,547.50)	400,382.50
11/1/2019	-	63,768.75	(22,319.06)	41,449.69	(1,547.50)	39,902.19
5/1/2020	365,000.00	63,768.75	(22,319.06)	406,449.69	(1,547.50)	404,902.19
11/1/2020	-	54,643.75	(19,125.31)	35,518.44	(1,547.50)	33,970.94
5/1/2021	380,000.00	54,643.75	(19,125.31)	415,518.44	(1,547.50)	413,970.94
11/1/2021	-	44,906.25	(15,717.19)	29,189.06	(1,547.50)	27,641.56
5/1/2022	390,000.00	44,906.25	(15,717.19)	419,189.06	(1,547.50)	417,641.56
11/1/2022	-	34,668.75	(12,134.06)	22,534.69	(1,547.50)	20,987.19
5/1/2023	405,000.00	34,668.75	(12,134.06)	427,534.69	(1,547.50)	425,987.19
11/1/2023	-	23,784.38	(8,324.53)	15,459.85	(1,547.50)	13,912.35
5/1/2024	420,000.00	23,784.38	(8,324.53)	435,459.85	(1,547.50)	433,912.35
11/1/2024	-	12,234.38	(4,282.03)	7,952.35	(1,547.50)	6,404.85
5/1/2025	435,000.00	12,234.38	(4,282.03)	442,952.35	(156,297.50)	286,654.85
<b>Totals</b>	<b>5,140,000.00</b>	<b>2,000,751.34</b>	<b>(634,458.52)</b>	<b>6,506,292.82</b>	<b>(317,903.43)</b>	<b>6,188,389.39</b>

<sup>1</sup> DSRF assumed to earn 2%

## **City of Lebanon, Missouri**

*Certificates of Participation*

*Series 2010*

*Debt Service*

*(Sewer Project)*

Date	Principal	Interest	Build America Subsidy	Total Adjusted Debt Service	Debt Service Reserve Fund <sup>1</sup>	Total Net Debt Service
5/1/2011	134,042.55	92,099.58	(25,287.43)	200,854.71	(2,509.95)	198,344.76
11/1/2011	-	90,501.06	(25,009.55)	65,491.51	(2,482.37)	63,009.14
5/1/2012	268,085.11	90,501.06	(25,009.55)	333,576.62	(2,482.37)	331,094.25
11/1/2012	-	88,490.43	(25,009.55)	63,480.87	(2,482.37)	60,998.50
5/1/2013	272,553.19	88,490.43	(25,009.55)	336,034.06	(2,482.37)	333,551.69
11/1/2013	-	85,901.17	(25,009.55)	60,891.62	(2,482.37)	58,409.25
5/1/2014	277,021.28	85,901.17	(25,009.55)	337,912.89	(2,482.37)	335,430.52
11/1/2014	-	82,853.94	(25,009.55)	57,844.38	(2,482.37)	55,362.01
5/1/2015	285,957.45	82,853.94	(25,009.55)	343,801.83	(2,482.37)	341,319.46
11/1/2015	-	79,422.45	(25,009.55)	54,412.89	(2,482.37)	51,930.52
5/1/2016	290,425.53	79,422.45	(25,009.55)	344,838.43	(2,482.37)	342,356.06
11/1/2016	-	75,646.91	(25,009.55)	50,637.36	(2,482.37)	48,154.99
5/1/2017	299,361.70	75,646.91	(25,009.55)	349,999.06	(93,854.71)	256,144.35
11/1/2017	-	71,455.85	(25,009.55)	46,446.30	(1,382.87)	45,063.43
5/1/2018	308,297.87	71,455.85	(25,009.55)	354,744.17	(1,382.87)	353,361.30
11/1/2018	-	64,519.15	(22,581.70)	41,937.45	(1,382.87)	40,554.57
5/1/2019	317,234.04	64,519.15	(22,581.70)	359,171.49	(1,382.87)	357,788.62
11/1/2019	-	56,984.84	(19,944.69)	37,040.15	(1,382.87)	35,657.28
5/1/2020	326,170.21	56,984.84	(19,944.69)	363,210.36	(1,382.87)	361,827.49
11/1/2020	-	48,830.59	(17,090.70)	31,739.88	(1,382.87)	30,357.01
5/1/2021	339,574.47	48,830.59	(17,090.70)	371,314.35	(1,382.87)	369,931.48
11/1/2021	-	40,128.99	(14,045.15)	26,083.84	(1,382.87)	24,700.97
5/1/2022	348,510.64	40,128.99	(14,045.15)	374,594.48	(1,382.87)	373,211.61
11/1/2022	-	30,980.59	(10,843.20)	20,137.38	(1,382.87)	18,754.51
5/1/2023	361,914.89	30,980.59	(10,843.20)	382,052.28	(1,382.87)	380,669.40
11/1/2023	-	21,254.13	(7,438.94)	13,815.19	(1,382.87)	12,432.31
5/1/2024	375,319.15	21,254.13	(7,438.94)	389,134.33	(1,382.87)	387,751.46
11/1/2024	-	10,932.85	(3,826.49)	7,106.36	(1,382.87)	5,723.48
5/1/2025	388,723.40	10,932.85	(3,826.49)	395,829.76	(139,670.11)	256,159.65
<b>Totals</b>	<b>4,593,191.49</b>	<b>1,787,905.45</b>	<b>(566,962.93)</b>	<b>5,814,134.01</b>	<b>(284,083.92)</b>	<b>5,530,050.09</b>

<sup>1</sup> DSRF assumed to earn 2%

## ***City of Lebanon, Missouri***

*Certificates of Participation*

*Series 2010*

*Debt Service*

*(Water Project)*

<b>Date</b>	<b>Principal</b>	<b>Interest</b>	<b>Build America Subsidy</b>	<b>Total Adjusted Debt Service</b>	<b>Debt Service Reserve Fund <sup>1</sup></b>	<b>Total Net Debt Service</b>
5/1/2011	15,957.45	10,964.24	(3,010.41)	23,911.27	(298.80)	23,612.47
11/1/2011	-	10,773.94	(2,977.33)	7,796.61	(295.52)	7,501.09
5/1/2012	31,914.89	10,773.94	(2,977.33)	39,711.50	(295.52)	39,415.98
11/1/2012	-	10,534.57	(2,977.33)	7,557.25	(295.52)	7,261.73
5/1/2013	32,446.81	10,534.57	(2,977.33)	40,004.06	(295.52)	39,708.54
11/1/2013	-	10,226.33	(2,977.33)	7,249.00	(295.52)	6,953.48
5/1/2014	32,978.72	10,226.33	(2,977.33)	40,227.73	(295.52)	39,932.21
11/1/2014	-	9,863.56	(2,977.33)	6,886.24	(295.52)	6,590.72
5/1/2015	34,042.55	9,863.56	(2,977.33)	40,928.79	(295.52)	40,633.27
11/1/2015	-	9,455.05	(2,977.33)	6,477.73	(295.52)	6,182.21
5/1/2016	34,574.47	9,455.05	(2,977.33)	41,052.19	(295.52)	40,756.67
11/1/2016	-	9,005.59	(2,977.33)	6,028.26	(295.52)	5,732.74
5/1/2017	35,638.30	9,005.59	(2,977.33)	41,666.56	(11,173.18)	30,493.38
11/1/2017	-	8,506.65	(2,977.33)	5,529.32	(164.63)	5,364.69
5/1/2018	36,702.13	8,506.65	(2,977.33)	42,231.45	(164.63)	42,066.82
11/1/2018	-	7,680.85	(2,688.30)	4,992.55	(164.63)	4,827.93
5/1/2019	37,765.96	7,680.85	(2,688.30)	42,758.51	(164.63)	42,593.88
11/1/2019	-	6,783.91	(2,374.37)	4,409.54	(164.63)	4,244.91
5/1/2020	38,829.79	6,783.91	(2,374.37)	43,239.33	(164.63)	43,074.70
11/1/2020	-	5,813.16	(2,034.61)	3,778.56	(164.63)	3,613.93
5/1/2021	40,425.53	5,813.16	(2,034.61)	44,204.09	(164.63)	44,039.46
11/1/2021	-	4,777.26	(1,672.04)	3,105.22	(164.63)	2,940.59
5/1/2022	41,489.36	4,777.26	(1,672.04)	44,594.58	(164.63)	44,429.95
11/1/2022	-	3,688.16	(1,290.86)	2,397.31	(164.63)	2,232.68
5/1/2023	43,085.11	3,688.16	(1,290.86)	45,482.41	(164.63)	45,317.79
11/1/2023	-	2,530.25	(885.59)	1,644.66	(164.63)	1,480.04
5/1/2024	44,680.85	2,530.25	(885.59)	46,325.52	(164.63)	46,160.89
11/1/2024	-	1,301.53	(455.54)	845.99	(164.63)	681.37
5/1/2025	46,276.60	1,301.53	(455.54)	47,122.59	(16,627.39)	30,495.20
<b>Totals</b>	<b>546,808.51</b>	<b>212,845.89</b>	<b>(67,495.59)</b>	<b>692,158.81</b>	<b>(33,819.51)</b>	<b>658,339.30</b>

<sup>1</sup> DSRF assumed to earn 2%

**City of Lebanon, Missouri**

*Certificates of Participation*

*Series 2010*

*Uses Allocation*

	<b>Sewer</b>	<b>Water</b>	<b>Total</b>
Project Fund	4,199,715.16	499,966.09	4,699,681.25
Debt Service			
Reserve Fund	229,659.57	27,340.43	257,000.00
Costs of Issuance	96,091.76	11,439.49	107,531.25
Underwriter's Discount	67,725.00	8,062.50	75,787.50
<b>Totals</b>	<b>4,593,191.49</b>	<b>546,808.51</b>	<b>5,140,000.00</b>

AN ORDINANCE

to repeal Section 26-43 of the Code of Laws of the City of Lebanon, Missouri, by enacting in lieu thereof two new subparagraphs to the Code of Laws of the City of Lebanon, Missouri, to be known as subparagraphs (a) and (b) of Section 26-43 relating to the operation, maintenance and replacement fund; and fixing the effective date hereof.

Be it ordained by the Council of the City of Lebanon, Missouri, as follows:

Section 1: That Section 26-43 of the Code of Laws of the City of Lebanon, Missouri, relating to the operation, maintenance and replacement fund is hereby repealed, and two new subparagraphs be enacted in lieu thereof to read as follows:

**Sec. 26-43. Operation, maintenance and replacement fund.**

(a) That portion of the total user charge collected which is designated for operation and maintenance, including replacement purposes, shall be deposited in a separate non-lapsing fund known as the operation, maintenance and replacement fund, and will be kept in two (2) primary accounts as follows:

(1) An account designated for the specific purpose of defraying operation and maintenance costs (excluding replacement) of the treatment works (operation and maintenance account); and

(2) An account designated for the specific purpose of ensuring replacement needs over the useful life of the treatment works (replacement account).

Deposits in the replacement account shall be made at least annually from the user revenue in the amount that will cause the balance of the fund to equal no less than thirty percent (30%) of annual revenue nor more than fifty percent (50%) of annual revenue, except, that in the event of an emergency or a special need as determined by the mayor and the city council, the city council may, by ordinance, authorize the use of

funds in the aforesaid account for any reason deemed appropriate and necessary by the mayor and the city council.

(b) Fiscal year-end balances in the operation and maintenance account and the replacement account shall be carried over to the same accounts in the subsequent fiscal year, and shall, subject to the provisions set forth above, be used for no other purposes than those designated for these accounts. Monies which have been transferred from other sources to meet temporary shortages in the operation, maintenance and replacement fund shall be returned to their respective accounts upon appropriate adjustment of the user charge rates for operation, maintenance and replacement. The user charge rate(s) shall be adjusted such that the transferred monies will be returned to their respective accounts within the fiscal year in which the monies were borrowed.

Section 2: That this ordinance shall be in full force and effect from and after the date of its passage and approval.

Dated this 9th day of February, 2009.

(SEAL)

  
\_\_\_\_\_  
Mayor

ATTEST:

  
\_\_\_\_\_  
Laina Starnes  
City Clerk

First reading held: February 09, 2009  
Second reading held: February 09, 2009

## Appendix B

Septage Haul and High Strength User Data

Assumptions and User Entries			Assumed Inflation							
Category	Item	2017-2018	Factor	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	
<b>Average Flow Summary</b>										
<i>This is the allocation espense percentages to treat Flow, BOD, &amp; SS. The values listed are EPA Recommend Values</i>										
<b>Treatment % Allocation</b>										
Annual Flow	40%									
Annual BOD	30%									
Annual SS	30%									
Other	0%									
	<b>100%</b>									
<b>Domestic Waste Limits</b>										
BOD Concentration Avg.	200 mg/l									
SS Concentration Avg.	300 mg/l									
Other Pol. Conc. Avg.	0 mg/l									
Annual BOD Avg.	784,843 Pounds/year									
Annual SS Avg.	1,177,265 Pounds/year									
Annual Other Pol. Avg.	-									
<b>Loadings</b>										
<b>Average Consumption</b>										
Residential (ea)	3,889	Gallons/Mo (WINTER AVG)								
Comm/Ind (ea)	21,059	Gallons/Mo (Annual Average)								
City (ea)	27,203	Gallons/Mo (WINTER AVG)								
Total Water Consumption	<b>5,440,600</b>									
<b>Annual Flow</b>	859,635,833	Gallons/year								
Annual Flow (Liters)	3,249,423,450	Liters/year								
<b>Annual Flow per Customer</b>	138,696	Gallons/year								
<b>Operating Expenses</b>										
WWTP and Operation	\$ 1,243,747		4.0%	\$ 1,293,497	\$ 1,345,237	\$ 1,399,046	\$ 1,455,008	\$ 1,513,208	\$ 1,573,737	
Maintenance	\$ 139,072		4.0%	\$ 144,635	\$ 150,420	\$ 156,437	\$ 162,694	\$ 169,202	\$ 175,970	
Inflow and Infiltration	\$ 387,621		1.0%	\$ 391,497	\$ 395,412	\$ 399,366	\$ 403,360	\$ 407,393	\$ 411,467	
<b>Total Operating Expenses</b>	<b>\$ 1,770,439</b>			<b>\$ 1,829,628</b>	<b>\$ 1,891,069</b>	<b>\$ 1,954,849</b>	<b>\$ 2,021,062</b>	<b>\$ 2,089,804</b>	<b>\$ 2,161,174</b>	
<b>Total Operating Expenses (Less I&amp;I)</b>	<b>\$ 1,382,819</b>			<b>\$ 1,438,132</b>	<b>\$ 1,495,657</b>	<b>\$ 1,555,483</b>	<b>\$ 1,617,702</b>	<b>\$ 1,682,410</b>	<b>\$ 1,749,707</b>	
<b>Total Operating Exp. w/ WWTP CIP</b>	<b>\$ 1,770,439</b>			<b>\$ 1,829,628</b>	<b>\$ 1,891,069</b>	<b>\$ 2,352,190</b>	<b>\$ 2,418,403</b>	<b>\$ 2,487,145</b>	<b>\$ 2,558,515</b>	
<b>Treatment Expense Summary</b>										
Annual Cost to Treat Annual Flow	\$ 708,176		4.0%	\$ 731,851	\$ 756,427	\$ 781,940	\$ 808,425	\$ 835,921	\$ 864,470	
Annual Cost to Treat Annual BOD	\$ 531,132		4.0%	\$ 548,889	\$ 567,321	\$ 586,455	\$ 606,319	\$ 626,941	\$ 648,352	
Annual Cost to Treat Annual SS	\$ 531,132		1.0%	\$ 548,889	\$ 567,321	\$ 586,455	\$ 606,319	\$ 626,941	\$ 648,352	
Cost per Gallon	\$ 0.00082			\$ 0.00085	\$ 0.00088	\$ 0.00091	\$ 0.00094	\$ 0.00097	\$ 0.00100	
Cost per Pound BOD	\$ 0.37020			\$ 0.38238	\$ 0.39502	\$ 0.40814	\$ 0.42176	\$ 0.43588	\$ 0.45054	
Cost per Pound SS	\$ 0.24680			\$ 0.25492	\$ 0.26335	\$ 0.27210	\$ 0.28117	\$ 0.29059	\$ 0.30036	
<b>Wholesale Rate</b>										
Annual Cost to Treat Wholesale Flow	\$ 1,770,439			<b>\$ 1,829,628</b>	<b>\$ 1,891,069</b>	<b>\$ 2,352,190</b>	<b>\$ 2,418,403</b>	<b>\$ 2,487,145</b>	<b>\$ 2,558,515</b>	
Cost per 1,000 Gal (Wholesale Rate)	\$ 2.06			\$ 2.13	\$ 2.20	\$ 2.73	\$ 2.81	\$ 2.89	\$ 2.97	
<b>Septage Rates</b>										
Cost to Treat Septage Flow (per Gal.)	\$ 0.0146			\$ 0.0151	\$ 0.0156	\$ 0.0161	\$ 0.0166	\$ 0.0172	\$ 0.0178	
Cost per 1,000 Gallons	\$ 14.60			\$ 15.08	\$ 15.58	\$ 16.10	\$ 16.64	\$ 17.19	\$ 17.77	

## City of Lebanon Septic Hauler Log Sheet

**Septic Hauling  
Information City of Lebanon**

**Company Name:** \_\_\_\_\_

**Company Mailing Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Company Contact Name:** \_\_\_\_\_

**Company Phone Number:** \_\_\_\_\_

**Company Truck License plate Number:** \_\_\_\_\_

**Maximum hauling Capacity in Gallons:** \_\_\_\_\_

**Print Name:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Septic Hauling  
Information City of Lebanon**

Company Name: Richard Patton

Company Mailing Address: P.O. Box 40  
Conway MO 65632

Company Contact Name: Richard Patton

Company Phone Number: (417) 830-3438

Company Truck License plate Number: \_\_\_\_\_

Maximum hauling Capacity in Gallons: 30.000/lb *\* 2000 gals*

Print Name: Richard Patton

Signature: Richard Patton

Date: 11-4-16

*June 2016*

## Septic Hauling Information

Company Name :

Red Carpet Cleaning Inc.

Company

Mailing Address :

20 Glenridge St.  
Lebanon MO 65536

Company

Contact Name :

Robert Woolley (Rob)

Company

Phone Number :

417-322-6338

Company Truck

License plate

Number :

1CV 777

Maximum hauling

Capacity in

Gallons :

80-100

Print Name :

Robert Woolley

Signature :

Robert Woolley

Date :

6/13/2016

## Septic Hauling Information

Company Name :

Austin's Pumping Service

Company  
Mailing Address :

P O Box 472  
Strafford, MO 65757

Company  
Contact Name :

Douglas Hurrelbrink

Company  
Phone Number :

417- 987- 9914

Company Truck  
License plate  
Number :

# 2 44B9HC

Maximum hauling  
Capacity in  
Gallons :

2000

Print Name :

Douglas Hurrelbrink

Signature :

Douglas Hurrelbrink

Date :

2-15-2010

## Septic Hauling Information

Company Name :

BALLARD WASTEWATER

Company  
Mailing Address :

BALLARD Septic

721 S. Jefferson #327  
Lebanon, MO. 65536

Company  
Contact Name :

Dennis H. Ballard

Company  
Phone Number :

417-327-2326

Company Truck  
License plate  
Number :

\_\_\_\_\_

Maximum hauling  
Capacity in  
Gallons :

3 TRUCKS    500 Gal  
                  2000 Gal  
                  2200 Gal

Print Name :

Dennis H. Ballard

Signature :

Dennis H. Ballard

Date :

4-25-2014

## Septic Hauling Information

Company Name :

Miller's Septic Service

Company  
Mailing Address :

2419 McMahen Rd.  
Altona, MO 65413

Company  
Contact Name :

Mathias Miller

Company  
Phone Number :

417-630-1168

Company Truck  
License plate  
Number :

19B-1MU

Maximum hauling  
Capacity in  
Gallons :

1500 gallons

Print Name :

Mathias Miller

Signature :

Mathias Miller

Date :

8-10-15

**Septic Hauling  
Information**

**Company Name :**

OZARK MOUNTAIN SEPTIC

**Company  
Mailing Address :**

19621 Hwy 66

LEBANON, MO 65536

**Company  
Contact Name :**

DENNIS MC EWEN

**Company  
Phone Number :**

OFFICE

CELL

417-533-5959 - 417-664-3129

**Company Truck  
License plate  
Number :**

46 B - 8MN

**Maximum hauling  
Capacity in  
Gallons :**

2000

**Print Name :**

DENNIS MC EWEN

**Signature :**

Dennis R Mc Ewen

**Date :**

8/24/2010

**Septic Hauling  
Information**

**Company Name :**

A + Septic Solutions

**Company**

**Mailing Address :**

3532 Matney Hollow Rd  
Seymour, MO 65746

**Company**

**Contact Name :**

Julie Leonard

**Company**

**Phone Number :**

417 935-4459

**Company Truck**

**License plate**

**Number :**

Temp Tag 28 B8M4

**Maximum hauling**

**Capacity in**

**Gallons :**

2,300 gallon

**Print Name :**

Brad Leonard

**Signature :**

Brad Leonard

**Date :**

12-2-11

**Septic Hauling  
Information**

14A/23/2011

**Company Name :**

A-1 Septic

**Company**

**Mailing Address :**

21792 Rte 66  
Lebanon, MI 49254

**Company**

**Contact Name :**

James Hatman

**Company**

**Phone Number :**

417-322-2009

**Company Truck**

**License plate**

**Number :**

048-767

**Maximum hauling**

**Capacity in**

**Gallons :**

1500

**Print Name :**

James Hatman

**Signature :**

James R. Hatman

**Date :**

9-2-10



## Septic Hauling Information

Company Name :

Get ER-Dun-Jon's

Company  
Mailing Address :

17039 Hwy B  
Leavenworth 97106 65536

Company  
Contact Name :

Get ER-Dun-Jon's

Company  
Phone Number :

503-2564

Company Truck  
License plate  
Number :

1 32A 984  
2  
3.

Maximum hauling  
Capacity in  
Gallons :

800 gal

Print Name :

Tom Innes

Signature :

Thank you

Date :

8/31/10

Septic Hauling  
Information City of Lebanon

Company Name:

Laclede County PWSD#3

Company Mailing Address:

23006 Paradise  
Lebanon MO 65536

Company Contact Name:

Aaron Wirkle

Company Phone Number:

417-532-4525

Company Truck License plate Number:

PWSD#3

Maximum hauling Capacity in Gallons:

2,300 Gal

Print Name:

Aaron Wirkle

Signature:



Date:

5-23-18

Septic Hauling  
Information City of Lebanon

Company Name:

New Generation Cleaning Solutions

Company Mailing Address:

30555 Prairie Creek  
Lebanon, Mo 65536

Company Contact Name:

David Grice

Company Phone Number:

417-664-3731

Company Truck License plate Number:

27B-2NR

Maximum hauling Capacity in Gallons:

1000 gal

Print Name:

David Grice

Signature:

David Grice

Date:

4-10-2018

Septic Hauling  
Information City of Lebanon

Company Name:

AB Septic

Company Mailing Address:

PO Box 589

Company Contact Name:

Bob

Company Phone Number:

573-346-5123

Company Truck License plate Number:

17B 65Y

Maximum hauling Capacity in Gallons:

3000

Print Name:

Tim Brutsman

Signature:

Tim Brutsman

Date:

8-1-15

Septic Hauling  
Information City of Lebanon

Company Name:

All clear pumping and Sewer

Company Mailing Address:

Po Box 823

Jefferson City, Mo 65102

Company Contact Name:

Shawna Chilton

Company Phone Number:

573 634 0145

Company Truck License plate Number:

85b 5mF

06B5UB  
02B2UB



Maximum hauling Capacity in Gallons:

2000

3000

Print Name:

Shawna Chilton

Signature:

Shawna Chilton

Date:

10.28.16

City of Lebanon Septic Hauler Log Sheet

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole:
1/1/18	11:55	Village Millings	Marty Hank	W. Hank	✓					1680	✓		
1/1/18	2:55	Ozark Mt.	Richard Patten		✓				Farrow 122 Wild Fowl	1580	✓	✓	
1/12/18	11:05	Cal ER Dan	Clayton J. Dan		✓				Septic	1000	✓		
1-26-18	11:00	Ozark Mt.	Richard Patten		✓				Bamboo Garden	1200	✓		
1-26-18	11:42	Ozark Mt.	Richard Patten		✓				McDonalds #1	1800	✓		
1-26-18	12:55	Ozark Mt.	Richard Patten		✓				E. 32 meat	1800	✓		
1/29/18	2:25	All Clear	Robert Midget Party Widget		✓				Bamboo Brantline	2800	✓		
1-30-18	11:30	Ozark Mt.	Richard Patten		✓				Double Catfish	1500	✓		
1-30-18	11:30	Ozark Mt	Richard Patten		✓				midway	500	✓		
1-26-18	2:30	Ozark Mt	Richard Patten		✓				McDonalds #2	1000	✓		
1-30-18	12:45	Ozark Mt.	Richard Patten		✓				Chen's Chinese Rest	1500	✓		
1-30-18	1:45	Ozark Mt.	Richard Patten		✓				T's Redneck Steak House	1500	✓		
1-30-18	2:35	C:44 of P-Burg	Doug Run	Doug C					Tanks at Home	900	✓	✓	
2-4-18	11:45	Next Generation Cleaning	David	David	✓				Stone mill	250	✓		
	12:00	Next Generation David			✓				" "	500	✓		

City of Lebanon Septic Hauler Log Sheet

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:			
											East Tank:	West Tank:	Plant Manhole:	Others:
3/15	11:09	Ozark mt	Richard Patten			✓			Bennett Springs State Park	1800	✓			
3/15	12:48	Ozark mt	Richard Patten			✓			Bennett Springs	1800	✓			
3/15	2:25	Ozark mt.	Richard Patten			✓			Bennett Springs	1800	✓			
3/20	9:35	Ozark mt.	Richard Patten						Son-Rise Church	1800		✓		
3/20	11:05	Ozark mt	Richard Patten			✓			Bennett Springs Park	1800	✓			
3/20	12:45	Ozark mt	Richard Patten			✓			Bennett Springs Park	1800	✓			
2/26	10:12	Gutter Dm	George Lewis			✓	✓		Pots	400	✓			
2/27	10:20	Ozark mt.	Richard Patten		✓				14234, Donald Lehman	1000				
2/27	11:00	Ozark mt.	Richard Patten			✓			McDonalds # 1	1000	✓			
2/27	12:20	Ozark mt.	Richard Patten			✓			E. 32 west	1800	✓			
2/27	1:30	Ozark mt.	Richard Patten		✓				Stopper market	800				
2/27	2:40	Ozark mt.	Richard Patten			✓			McDonalds # 2	1000	✓			
3/2	11:45	Ozark mt.	Richard Patten		✓				91 Community Dr. Marshall	1000				
3/2	1:00	Ozark mt.	Richard Patten		✓				31915 orchard Lct.	1000				
3/9	12:45	Ozark mt	Richard Patten		✓				Lakeview water #3	1800				

2016

City of Lebanon Septic Hauler Log Sheet

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole:
3/9/16													
3/9/16 12:20	Get FDR Dan Geary												
3/9 1:45	Ozark mt.		Richard Patten						Lumber #3	1800			
3/9 9:30	Next Gen		David						Sox Creek	1000			
3/13 9:46	Get FDR Dan Geary								East St., Shamill				
3/14 1:14	Next Gen		David						POTS				
3/14 11:44	A-1		Charles Patten						Shamill				
3/20 9:37	A-1			" "					Colonial Springs MD	1000	✓		
3/20 12:20	Next Gen		David						Mercy Hosp. Lab	100	✓		
3/23 9:36	Get FDR Dan			Geary					State Mill	300	✓		
3/23 12:16	Get FDR Dan			Geary					C-Hwy	800	✓		
3/23 2:00	Ozark mt.		Richard Patten						State Forest	800			
3/26 7:57	Get FDR Dan			Geary					19311 Atch Lab	1200			
3/28 10:00	Ozark mt.		Richard Patten						POTS	400	✓		
3/28 11:20	Ozark mt.		Richard Patten						19327 Edison Lab	1000			
3/28 12:40	Ozark mt.		Richard Patten						McP mall Rd.	1200	✓		
									E. 32 meat	1800	✓		

2016

**City of Lebanon Septic Hauler Log Sheet**

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole: Others:
3/28	1:30	OZURK MT.	Richard Putton			✓			Custom D's	1000	✓		
3/28	2:45	OZURK MT	Richard Putton			✓			McDonnell #2	1200	✓		
3/28	2:45	OZURK MT	Richard Putton			✓			El Gondorco	500	✓		
3/29	8:07	Next Generation	David	David		Storm drain			Mac Skating	500			
3/29	10:35	OZURK MT.	Richard Putton			✓			Bumblego Gardens	1000			
3/29	11:30	OZURK MT	Richard Putton			✓			Dowd's Catch	1000	✓		
3/29	10:3	Next Gen	David	David		Storm drain			Shave Mill	1000	✓		
3/29	1:30	OZURK MT.	Richard Putton			✓			1/2 Redneck Steakhouse	1000	✓		
4/12	3:10	Next Gen	David	David	Storm mill	✓			Shave Mill	750	✓		
4/13	11:20	OZURK MT.	Richard Putton			✓			16166 Hwy-44 Lib	1000		✓	
4/13	2:25	Next Gen	David	David	Shave mill Beacons	✓			Shave mill	1000	✓		
4/14	10:50	A-1	Charles Hafner			✓			Mr Hwy Lebanon	500	✓		
4/14	11:30	A-1	"	for		✓			Sign Fab Lebanon	1500	✓		
4/19	9:41	GETER Den	George Hafner			✓			Pots	400			
5	3:30	Next Gen	David	David	✓				Valley Car wash	500	✓		
	11:00	GETER Den	George Hafner			✓			Wash	400			

City of Lebanon Septic Hauler Log Sheet

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole: Others:
4/13	11:00	Ozark mt.	Richard Patten		✓				Emerson Leb man hole	1800	✓		
4/13	1:36	Ozark mt.	Richard Patten		✓				11625 Guyard Leb	1800	✓		
7/16	12:47	GETER Den	Spencer		✓						✓		
7/17	11:08	A-1	Charles Hatman			✓			Belleview Star	1500	✓		
4/17	12:33	Port R Done	Wiley Olbrich		✓							✓	
4/18	8:40	Ozark mt.	Richard Patten		✓				Sun-Brk Church	1500	✓		
4/18	11:32	Ozark mt	Richard Patten		car wash				Shan-mc Clean	800			
8/19	11:44	Next Gen	Paul		car wash				Spring Valley	600	✓		
4/18	12:14	A-1	Charles Hatman		✓				Eagle Star	1500	✓		
4/18	2:00	A-1	Charles Hatman		✓				SEATab	1500	✓		
4/18	1:40	Ozark mt.	Richard Patten		✓				19455 Ridge Dr Leb	1500	✓		
4/19	9:00	Next Gen	Paul		car wash				Eagle Star	600			
4/19	12:37	A-1	Charles Hatman		✓				Sleeper M C	2000	✓		
4/24	10:21	A-1	11	11	✓				H & H Hwy Leb	1500			
4/24	11:46	A-1	11	11	✓				Green Ridge Rd Leb	1600	✓		

2018

## City of Lebanon Septic Hauler Log Sheet

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole: Others:
4/24	2:30	A-1	Charles Hartman		✓				32 Hwy Leb West	1000	1000	✓	
4/24	2:06	Cart Done Mich	Mark Clark		✓							✓	
4/25	1:37	A-1	Charles Hartman		✓				Jewell Rd. Lebanon	1000			
4/25	1:35	Rich G	David		✓				Champion Expr eagle stop	200			
4/26	8:00	Ozark mt.	Richard Patton		✓				Sun-Ridge church	1500		✓	
4/26	9:30	Ozark mt.	Richard Patton		✓				19904 Echo P-Burg	1000		✓	
4/26	9:36	A-1	Charles Hartman		✓				Majorie Point Leb	500		✓	
4/26	10:30	A-1	"	"	✓				Donno's Lebanon	5		✓	
4/26	1:00	A-1	"	"	✓				Cotton's steel Carol's strob	1000		✓	
4/26	10:00	Ozark mt.	Richard Patton		✓				McDonald's #1	1000		✓	
4/26	11:00	Ozark mt.	Richard Patton		✓				McDonald's #2	1000		✓	
4/26	12:30	Ozark mt.	Richard Patton		✓				E 32 meat	1800		✓	
4/26	11:15	Village Phillips	Vill Phillips		✓				44th Place	1000		✓	
4/27	1:33	A-1	Charles Hartman		✓	✓			Donno's Web pizza	5		✓	
4/30	8:43	Gutter Dr	George Brown		✓				Pots	400		✓	

2018

2019

## City of Lebanon Septic Hauler Log Sheet

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole:
5/1	1:00	Ozark mt.	Richard Patton		✓				19976 Ozench Lcb.	1880			✓
5/2	9/49	A-1	Charles Hatney		✓				Sleepy Rose	1500			✓
5/2	10:30	A-1	" "	" "	✓				Buckhorn store	1500			✓
5/3	11:25	G-F-R Dan	George J. Powell		✓				Pots	900			✓
5/4	8:15	A-1	Charles Hatney		✓				Meroy Lcb Hospital	1500	✓		
5/4	11:33	A-1	" "	" "	✓				Dickey's Barb. Q	1500	✓		
5/4	1:30	A-1	" "	" "	✓				Colton's steak & Grill STR	1500	✓		
5/8	9:45	Ozark mt.	Richard Patton		✓				26503 Lcb Excavator Rd	1500			✓
5/8	12:00	Ozark mt.	Richard Patton		✓				29650 Pelican Lcb	1880			✓
5/9	9:00	G-F-R Dan	White Diamond		✓				Pots				✓
5/9	11:23	G-F-R Dan	George J. Powell		✓				Bennett Spry				✓
5/10	3:14	Reef Corp	Javid			COR, Wish			Quark Carwash	750			✓
5/11	9:21	Reef Corp	Javid			car wash			Quark	1000			✓
5/11	10:45	Ozark mt.	Richard Patton		✓				19305 Taylor Lcb.	1000			✓
5/11	12:05	Ozark mt.	Richard Patton		✓				22839 Daryl Lcb.	1500			✓

2018

**City of Lebanon Septic Hauler Log Sheet**

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole: #
5/11	12:51	A-1	Charles Hatman	Charles Hatman	✓				3214 Hwy 263	1000	✓		
5/14	1:53	GTR Done	Georgina /	Georgina /		✓			Pots	300	✓		
5/15	11:45	Ozark mt.	Richard Patten	Richard Patten	✓				WEO Trunking 15118 Elgin	1500	✓		
5/15	1:35	Ozark mt.	Richard Patten	Richard Patten	✓				14100 Hwy 14 Leb.	1500	✓		
5/16	9:25	GTR Done	Off Blue River	Off Blue River		✓			Pots	300	✓		
5/16	11:30	Ozark mt.	Richard Patten	Richard Patten	✓				23520 Park Dr Leb.	1000	✓		
5/18	9:46	A-1	Charles Hatman	Charles Hatman		✓			Hardies of Leb- Buckhorn Food Mart	1500	✓		
5/22	11:53	A-1	"	"	✓					1500	✓		
5/22	1:30	A-1	"	"	✓				Wispering Oaks Leb	1000	✓		
5-23	7:40	PWSD #3	Norman Cunningham	Norman Cunningham	✓				OTC	2300	✓		
5-23	8:52	PWSD #3	Norman Cunningham	Norman Cunningham	✓				OTC	2300	✓		
5/23	10:18	Ozark mt.	Richard Patten	Richard Patten	✓				Long Cascades Hwy 32 Leb	1500	✓		
5/23	11:15	Ozark mt.	Richard Patten	Richard Patten	✓				Dunkin Catskill	1500	✓		
5/23	12:40	Ozark mt.	Richard Patten	Richard Patten	✓	✓			E. 32 meat	1800	✓		
5/23	1:28	Ozark mt.	Richard Patten	Richard Patten	✓				McDonald's #1	1080	✓		

2018  
08

**City of Lebanon Septic Hauler Log Sheet**

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole:
5/23	2:30	Ozark mt.	Richard Patten			✓			McDonald's # 2	1500	✓		
5/24	8:29	Ozark mt.	Richard Patten		✓				32 Morning Side Long Ln.	1500		✓	
5/24	9:14	Ozark mt.	Richard Patten			✓			Bamboo Garden	1000	✓		
5/24	10:25	Ozark mt.	Richard Patten			✓			Chins	1500	✓		✓
5/24	11:25	Ozark mt.	Richard Patten			✓			midway	500	✓		
5/24	11:25	Ozark mt.	Richard Patten			✓			El Sonbread	500	✓		
5/24	12:30	Ozark mt.	Richard Patten			✓			T & Refresh Stockhouse	1500	✓		
5-29	9:08	GTR Done	Mike Oberhauer			✓			Pots	200		✓	
5-29	9:46	Exeter Dr.	John Isbell		X				Pots	250		✓	
5-30	9:12	GTR Done	Mike Oberhauer		X				Pots	200		✓	
5/30	10:07	GTR Done	Leeny Jones		✓				Pots	200		✓	
6/1	11:00	Ozark mt.	R. Richard Patten						1619 Marshall Lct.	1000			✓
6/1	2:15	Red carpet cleaning	Robert Wadley	Robert Wadley					Lebanon	40			✓
6-4	9:00	GTR Done	Mike Oberhauer			✓			bed Pots	200		✓	
6/5	8:49	GTR Done	Leeny Jones			✓			Pots	500		✓	
6/5	11:57	GTR Done	Leeny Jones			✓			Pot	500			✓

2018

**City of Lebanon Septic Hauler Log Sheet**

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:			
											East Tank:	West Tank:	Plant Manhole:	Others:
6/6/18	1:00	At A Septic	Drayellellor	<i>D.L.</i>					Metal Tech		✓			
6/6	2:11	Geff Pfer	George Ferg	<i>G.F.</i>					Big River		✓			
6/6/18	11:00	BALLARD	Dennis Ballard	<i>D. H. Ballard</i>	✓				J. E. Barber	2300	✓			
6/7/18	12:01	BALLARD	Dennis Ballard	<i>D. H. Ballard</i>	✓				J. E. Barber	2300	✓			
6/7/18	13:14	BALLARD	Dennis Ballard	<i>D. H. Ballard</i>	✓				J. E. Barber	2300	✓			
6/7/18	14:34	BALLARD	Dennis Ballard	<i>D. H. Ballard</i>	✓				J. E. Barber	2300	✓			
6/8/18	10:32	BALLARD	D. H. Ballard	<i>D. H. Ballard</i>	✓				J. E. Barber	2300	✓			
6/8/18	11:44	BALLARD	Dennis H. Ballard	<i>D. H. Ballard</i>	✓				J. E. Barber	2300	✓			
6/8/18	13:12	BALLARD	D. Ballard	<i>D. H. Ballard</i>	✓				J. E. Barber	2300	✓			
6/8/18	14:45	BALLARD	D. Ballard	<i>D. H. Ballard</i>	✓				J. E. Barber	2300	✓			
6/11	8:19	Geff Pfer	George Ferg	<i>G.F.</i>					Pots	500	✓			
6/11	9:29	A-1	Charles Hatman		✓				Sons St Robert	1500	✓			
6/11	10:49	A-1	"	"	✓				Park dr. Leb	1000	✓			
6/11	14:47	BALLARD	Dennis H. BALLARD	<i>D. H. Ballard</i>	✓				J. E. Barber		✓			
6/11	3:20	Geff Pfer	George Ferg	<i>G.F.</i>					Pots	600	✓			
6/14	11:31	GHR Dan	Mr. Dan Schenck	<i>D. Schenck</i>	✓				Pots	300	✓			

2018

**City of Lebanon Septic Hauler Log Sheet**

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole: Others:
6-18-18	7:50	G.H.R Done	Mike Shulke		✓				Pots	800			✓
6-18	10:30	OZARK MT.	Richard Patten			✓			Captain D's	1000	✓		
6-18	12:00	OZARK MT.	"	"	✓				wall street cattle Co.	1800			
6-18	1:00	OZARK MT.	"	"	✓				" "	800			
6-18	1:45	G.H.R Done	Mike Shulke		✓				Pots	300			✓
6-18	1:56	G.H.R Done	Geoff Jones		✓				Pots	400			
6-18	2:13	OZARK MT	Richard Patten		✓				wall street cattle Co	1800			
6-18	3:15	OZARK MT	"	"	✓				wall street cattle Co	1800			
6-21	12:55	VSU SEWER	Mike Masinew	MD 14-30	✓				CITY SEWERS	1500			
6-22	8:15	OZARK MT.	Richard Patten		✓				wall street cattle Co.	1800			
6-22	9:10	OZARK MT	"	"	✓				McDonald's # 2	1100	✓		
6-22	10:00	OZARK MT.	"	"	✓				McDonald's # 1	1100			
6-22	9:22	G.H.R Done	Geoff Jones		✓				<del>Port</del> Pots	800			✓
6-25	1:43	G.H.R Done	Geoff Jones		✓				Pots	900			✓
6-26	9:30	G.H.R Done	Mike Shulke		✓				Pots	300			

2018

City of Lebanon Septic Hauler Log Sheet

2016

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole: Others:
7/10	10:45	A-1	Charles Hatton		✓				Hardies Leb	1000	✓		
7/10	11:45	A-1	"	"	✓				Pine tree	1000	✓		
7/10	12:45	A-1	"	"	✓				Sleepy Stn	1500	✓		
7/10	12:20	GtR Done	Mike Chalock	✓	✓				Pots	800	✓		
7/10	9:00	GtR Done	Mike Chalock		✓				Pots	300	✓		
7/12	8:00	Ozark mt.	Richard Pather		✓				Crook Cr Hwy-A P.Bay	1500	✓		
7/12	9:15	Ozark mt.	"	"	✓				wall street cattle Co.	1800	✓		
7/12	10:05	GtR Done	Septic Power		✓				Hwy 64 W	400	✓		
7/12	10:16	Ozark mt.	Richard Pather		✓				wall street cattle Co.	1800	✓		
7/12	12:15	Ozark mt.	"	"	✓				wall street cattle Co.	1800	✓		
7/12	1:20	Ozark mt.	"	"	✓				wall street cattle Co.	1800	✓		
7/12	2:20	Ozark mt	"	"	✓				wall street cattle Co.	1800	✓		
7/13	9:33	A-1	Charles Hatton		✓				Hardies Leb	1500	✓		
7/13	10:37	A-1	"	"	✓				Open Pdrx Leb	1000	✓		
7/15	8:00	GtR Done	Mike Chalock		✓				Pots		✓		

City of Lebanon Septic Hauler Log Sheet

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole: Others:
6/22	12:00	Ozark mt.	Richard Hoss						E. 32 meat	1800	-		
6/22	2:00	Ozark mt.	Richard Patten		✓				wall street cattle co.	1800	-		
6/27	8:15	Ozark mt.	Richard Patten		✓				Malbenny Rd Loring	1800	-		
6/28	10:04	GFR Done	Mike Ulrich			✓			Pots	300	-	✓	
6/29	9:30	Ozark mt.	Richard Patten		✓				Boat Toma Brewer Lab.	1500	-		
6/29	10:31	Ozark mt.	Richard Patten						wall street cattle co.	1800	-		
6/29	12:00	Ozark mt.	Richard Patten						wall street cattle co.	1800	-		
6/29	1:00	Ozark mt.	Richard Patten						wall street cattle co.	1800	-		
7/2	8:20	GFR Done	Mike Ulrich		✓				Pots	800	-	✓	
7/2	1:16	A-1	Charles Hutton		✓				St. Roberts Mo.	1000	-	✓	
7/2	3:24	GFR Done	George Hoss			✓			Pots	700	-	✓	
7/3	11:30	GFR Done	Mike Ulrich			✓			Pots	200	-	✓	
7/9	10:01	A-1	Charles Hutton		✓	✓			Hopital Lab.	1200	✓		
7/9	12:01	A-1	"	"	✓				Pine Tree Lab	500	✓		
7/10	9:00	GFR Done	Mike Ulrich		✓				Pots	300	-	✓	

2014

**City of Lebanon Septic Hauler Log Sheet**

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:			
											East Tank:	West Tank:	Plant Manhole:	Others:
7/16	10:33	Next Gen	David	<i>DA</i>	C				24511 Open Ridge Lot	1500	✓			
7/16	11:27	A-1	Charles Hatman		✓				mm Hwy Lbs	1000		✓		
7/16	1:27	A-1	"	"	✓				Sleepers Stor	1000		✓		
7/17	8:15	Ozark mt.	Richard Patton	<i>Richard Patton</i>	✓				39 Grey Hawk Log March.	1500		✓		
7/17	9:05	Ozark mt.	"	"		✓			Bamboo Garden	1000	✓			
7/17	10:15	Ozark mt	"	"		✓			Dundys Catfish	1000	✓			
7/17	10:15	Ozark mt	"	"		✓			El Sombra	500	✓			
7/17	11:07	Ozark mt	"	"		✓			T's Redneck Steak House	1000	✓			
7/17	2:00	Ozark mt.	"	"					Show Me Clean Car Wash	500				✓
7/17	3:00	Ozark mt.	"	"				✓	E. 32 meat	800	✓			
7/18	8:02	64 R.Don	Mike Shemb	<i>Mike Shemb</i>	✓				Pots	700		✓		
7/18	9:00	Oct 8 P.D.	Geep	<i>Geep</i>	✓				Pots	400				
7/18	3:10	C.R.Don	Mark	<i>Mark</i>	✓				Pots	300		✓		
7/20	9:30	Ozark mt.	Richard Patton	<i>Richard Patton</i>	✓				Pawson 2734 Hwy - m	1500				
7/21	10:15	Ozark mt	"	"		✓			McDonalds E/	1000	✓			
7/20	11:45	GetER.Don	Sex	<i>Sex</i>	✓				B. ttc. - m	900	✓			

2018

**City of Lebanon Septic Hauler Log Sheet**

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole:
7/20	11:20	Ozark mt.	Richard Cotton		✓				McDonalds	1000	✓		
7/20	1:00	Ozark mt.	"	"	✓				17130 Finch Rd heb.	1500	✓		
7/23	1:16	Get It Done	Gege	Gege	✓				RiverFront	900	✓		
7/23	8:00	Get It Done	Gege	Gege	✓				Pots		✓		
7/23	1:55	Get It Done	Mike	Mike	✓				Pots	300	✓		
7/24	7:08	Get It Done	Gege	Gege	✓				Pots	300	✓		
7/24	8:52	Red Carpet cleaning	Bob Wadley	Bob Wadley					Lebanon	30	✓		
7/24	11:30	Get It Done	Mike	Mike	✓				Pots	250	✓		
7/27	9:24	Next Gen	Don G.	Don G.	✓				East	500	✓		
7/27	1:30	All Clear	Chris S.	Chris S.		✓			Bandanas	1500			
7/30	8:00	Get It Done	Michael	Michael	✓				Pot	500	✓		
7/30	12:48	Get It Done	Gege	Gege		✓			Pots	700	✓		
8/1	12:35	Get It Done	Mike	Mike	?	✓			Pots	300	?	✓	
8/3	1:10	Next Gen	David	David	?	✓			Lindsay Che	300	?	?	
8/3	1:38	A-1	Charles	Charles		✓			Domestic heb.	1000	✓		
8/4	3:40	Get It Done	Gege	Gege		✓			Pots		✓		

2016

## City of Lebanon Septic Hauler Log Sheet

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole:
7/16													
8/6	11:20	GiTR Done	Mike Chubak			✓			Pots	300			✓
8/7	9:50	GiTR Done	Mike Chubak			✓			Pots	200			✓
8/7	12:51	A-1	Charles Nelson		✓				other Leb.	1000			✓
8/13	12:25	GiTR Done	Mike Chubak			✓			Pots	300			✓
8/19	11:08	GiTR Done	Mike Chubak			✓			Pots	900			✓
8/11	2:24	Red Carpet Cleaning	Rob Wadley	Rob Wadley	1				Lebanon	50			✓
8/12	8:39	A-1	Charles Nelson			✓			Mercy Hospital Leb	1000			✓
8/12	9:39	A-1	"	"		✓			Dickers Leb	1000			✓
8/12	10:39	A-1	"	"		✓			Slim Chickas Leb	1000			✓
8/12	12:37	A-1	"	"	✓				Philipsburg m.s.	1000			✓
8/13/18	12:00	A-1	"	"		✓			North S Nursing home	1000			✓

## City of Lebanon Septic Hauler Log Sheet

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:		
											East Tank:	West Tank:	Plant Manhole: Others:
8/14	2:25	Ozark mt.	Richard Patton	Richard Patton	✓				671 Elm St. Stratford	1000			✓
8/17	9:45	Ozark mt	Richard Patton	Richard Patton	✓				2773 Northgate Rd. Marshall	1000			
8/18	10:32	Geff Dan	Geoff Jones	Geoff Jones	✓				Pots	400			✓
8/19	12:30	Geff Dan	Geoff Jones	Geoff Jones	✓				Pots	40			
8/21	12:45	Geff Dan	Mike Olbricht	Mike Olbricht	✓				Pots	300			✓
8/22	12:30	Geff Dan	Mike Olbricht	Mike Olbricht	✓				Pots	300			✓
8/23	9:20	Ozark mt.	Richard Patton	Richard Patton	✓				19886 Houston Rd. Lb.	1500			
8/23	10:09	Ozark mt.	Richard Patton	Richard Patton		✓			McDonald's #1	1000			
8/23	11:10	Ozark mt.	Richard Patton	Richard Patton		✓			McDonald's #2	1000			✓
8/23	12:35	Ozark mt.	Richard Patton	Richard Patton		✓			24525 Remington Lb.	1500			
8/23	1:50	Ozark mt	Richard Patton	Richard Patton		✓			E-32 Meat Proc.	1800			
8/24	12:56	A-1	Charles Naylor	Charles Naylor	✓				Eagle 5 top Stratford Fst	1500			✓
8/27	9:52	Geff Dan	Geoff Jones	Geoff Jones	✓				Sand Springs	900			
8/28	8:19	A-1	Charles Naylor	Charles Naylor	✓				Mayfield Lebanon	1500			✓
8/28	10:30	A-1	✓	✓	✓				Buckhorn Stre	1500			✓

2018

417 531 5583

## City of Lebanon Septic Hauler Log Sheet

## City of Lebanon Septic Hauler Log Sheet

Date: dd/mm/yy	Time:	Company:	Drivers Name please print:	Drivers Name Signature:	Septic:	Porta Pot:	Grease:	Blood:	Source of Load:	Gallons:	Drop Location:			
											East Tank:	West Tank:	Plant Manhole:	Others:
9/14/18	10:59	A - 1	Charles Hahn	Charles Hahn	✓				Grovesprings filter m044					
9/14/18	12:51	Verde Lmn.	George Lovell	George Lovell		✓			Pots	300				
9/18/18	10:05	GTR Dan	Mike Chelak	Mike Chelak		✓			Pots	300				
9/18/18	12:48	A - 1	Charles Hahn	Charles Hahn	✓				Grovesprings	1500				
9/19/18	12:20	Ozark mt.	Richard Tatton	Richard Tatton	✓				12777 Any Dr. Lab	1500				
9/19/18	1:50	Ozark mt.	Richard Tatton	Richard Tatton	✓				507 Texark Labs.	800				
9/19/18	2:55	Ozark mt.	Richard Tatton	Richard Tatton	✓				26883 Gene Dr. Lab.	1800				
9/20/18	9:26	GTR Dan	George Lovell	George Lovell	✓				Pots					
9/20/18	10:48	A - 1	Charles Hahn	Charles Hahn	✓				Pine Tree Leban	1000				

# Appendix C

5-Year Balance Sheets for All Sewer Rate Scenarios

Revenues and Expenses	Item	2015-2016	2016-2017	2017-2018	Assumed Inflation Factor	2018-2019 <sup>[1]</sup>	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
<b>Residential Sewer Rates<sup>[2]</sup></b>											
	Service Charge - Residential	\$14.76	\$14.76	\$14.76		\$21.11	\$21.64	\$22.18	\$22.73	\$23.30	\$23.88
	Service Charge - Commercial/Industrial	\$26.75	\$26.75	\$26.75		\$38.25	\$39.21	\$40.19	\$41.19	\$42.22	\$43.28
	Usage Rate <7,000 (per 1,000 gallons)	\$1.25	\$1.25	\$1.25		\$1.79	\$1.83	\$1.88	\$1.93	\$1.98	\$2.03
	Usage Rate 7,001 - 25,000 (per 1,000 gallons)	\$3.00	\$3.00	\$3.00		\$4.29	\$4.40	\$4.51	\$4.62	\$4.74	\$4.86
	Usage Rate >25,001 (per 1,000 gallons)	\$3.95	\$3.95	\$3.95		\$5.65	\$5.79	\$5.93	\$6.08	\$6.23	\$6.39
	Cost of a 5,000 gallon residential sewer bill	\$21.01	\$21.01	\$21.01		\$30.06	\$30.79	\$31.58	\$32.38	\$33.20	\$34.03
<b>Revenues</b>											
<b>Revenue from sewer collections</b>											
	Sewer Billing	\$ 2,241,948	\$ 2,306,113	\$ 2,324,757		\$ 2,539,572	\$ 3,301,718	\$ 3,385,416	\$ 3,473,001	\$ 3,562,258	\$ 3,654,315
	Penalties	\$ 32,091	\$ 30,675	\$ 29,306		\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
	Connection Fees	\$ 16,500	\$ 5,250	\$ 22,100		\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125
	<b>Total Operating Revenue</b>	<b>\$ 2,290,540</b>	<b>\$ 2,342,038</b>	<b>\$ 2,376,163</b>		<b>\$ 2,570,697</b>	<b>\$ 3,332,843</b>	<b>\$ 3,416,541</b>	<b>\$ 3,504,126</b>	<b>\$ 3,593,383</b>	<b>\$ 3,685,440</b>
<b>Non-Operating Revenue</b>											
	Investment Income	\$ 2,392	\$ 5,629	\$ 6,318		\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
	Miscellaneous	\$ 4,505	\$ 5,318	\$ 2,395		\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
	Asset Disposal	\$ 1,768	\$ 6,323	\$ -		\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
	Capital Asset Transfer	\$ 3,690	\$ 2,337	\$ 64,009		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Permits	\$ 17,775	\$ 23,554	\$ 47,250		\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500
	<b>Total non-operating Revenue</b>	<b>\$ 30,129</b>	<b>\$ 43,161</b>	<b>\$ 119,972</b>		<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>
<b>Expenses</b>											
<b>Operating Expenses</b>											
	WWTP and Operation	\$ 942,281	\$ 1,071,572	\$ 1,243,747	4.0%	\$ 1,293,497	\$ 1,345,237	\$ 1,399,046	\$ 1,455,008	\$ 1,513,208	\$ 1,573,737
	Maintenance	\$ 102,724	\$ 127,488	\$ 139,072	4.0%	\$ 144,635	\$ 150,420	\$ 156,437	\$ 162,694	\$ 169,202	\$ 175,970
	Inflow and Infiltration	\$ 388,905	\$ 336,403	\$ 387,621	1.0%	\$ 391,497	\$ 395,412	\$ 399,366	\$ 403,360	\$ 407,393	\$ 411,467
	New Operation & Maintenance	\$ -	\$ -	\$ -		\$ -	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180
	<b>Total Operating Expenses</b>	<b>\$ 1,433,910</b>	<b>\$ 1,535,463</b>	<b>\$ 1,770,439</b>		<b>\$ 1,829,628</b>	<b>\$ 2,056,249</b>	<b>\$ 2,120,029</b>	<b>\$ 2,186,242</b>	<b>\$ 2,254,984</b>	<b>\$ 2,326,354</b>
<b>Wastewater Capital Improvements</b>											
	85-WW-005-15:WWTP Overhead Doors					\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ -
	85-ENV-004-15:Sampler					\$ -	\$ -	\$ -	\$ 4,500	\$ -	\$ -
	85-ENV-007-15:Lift Station SCADA					\$ 20,000	\$ 20,000	\$ 20,000	\$ -	\$ -	\$ -
	85-ENV-007-16:Pickup Trucks					\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000	\$ -
	85-ENV-008-16:Portable Trash Pump					\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$ -
	85-ENV-006-17:Pipe Laser					\$ 5,500	\$ -	\$ -	\$ -	\$ -	\$ -
	85-ENV-007-17:Oak & Caitlin Sewer Extension					\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -
	85-ENV-002-18:Easement Cleaning Machine					\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ -
	85-ENV-003-19:Portable Generator					\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -
	85-ENV-001-17:WWTP Driveway Overlay					\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ -
	85-ENV-001-18:Backhoe					\$ -	\$ -	\$ 110,000	\$ -	\$ -	\$ -
	85-ENV-003-18:Replace Ex. WW Computer Systems					\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
	85-ENV-001-19:Lift Station Improvements					\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
	85-ENV-002-19:Benctop Spectrophotometer					\$ 6,000	\$ -	\$ -	\$ -	\$ -	\$ -
	85-ENV-004-19:Dump Truck					\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -
	85-ENV-005-19:Standby Generator					\$ -	\$ -	\$ 80,000	\$ -	\$ -	\$ -
	85-ENV-004-20:Excavator					\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
	85-ENV-005-20:Biosolids Application Truck					\$ -	\$ 185,000	\$ -	\$ -	\$ -	\$ -
	85-ENV-006-20:Equipment and Material Trailer					\$ -	\$ 8,000	\$ -	\$ -	\$ -	\$ -
	85-ENV-007-20:Combination Cleaning Unit					\$ -	\$ -	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000
	85-ENV-008-20:Emerald Lane Gravity Sewer Main					\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -
	85-ENV-001-21:Sewer Main: Mizer Street					\$ -	\$ -	\$ 15,000	\$ -	\$ -	\$ -
	85-ENV-002-21:Sewer Main: Barlow Street					\$ -	\$ -	\$ 12,000	\$ -	\$ -	\$ -
	85-ENV-003-21:Sewer Main Marven Avenue					\$ -	\$ -	\$ 27,000	\$ -	\$ -	\$ -
	85-ENV-004-21:Sewer Main: Perry Street					\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ -
	85-ENV-005-21:IDEX					\$ -	\$ -	\$ 6,000	\$ -	\$ -	\$ -
	85-ENV-006-21:Mechanical Convection Oven					\$ -	\$ -	\$ 5,000	\$ -	\$ -	\$ -
	85-ENV-007-21:Analytical Balance					\$ -	\$ -	\$ 4,000	\$ -	\$ -	\$ -
	85-ENV-001-22:Sewer Main: Hayes Street					\$ -	\$ -	\$ 16,000	\$ -	\$ -	\$ -
	85-ENV-002-22:Sewer Main: Stave Mill Easement					\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ -
	85-WWT-001-16: Oxidation Ditch Rehab					\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -
	85-ENV-002-23:Lab/Portable PH, LBOD Meter					\$ -	\$ -	\$ -	\$ -	\$ 3,500	\$ -
	85-ENV-001-24:Orion Camera (CCTV)					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000
	<b>Total CIP Budget</b>					<b>\$ 276,500</b>	<b>\$ 678,000</b>	<b>\$ 684,000</b>	<b>\$ 280,500</b>	<b>\$ 272,500</b>	<b>\$ 260,000</b>
<b>Existing Wastewater Debt</b>											
	2016 First State Community Bank Loan	\$ 79,274	\$ 79,274	\$ 79,274		\$ 79,274	\$ 79,274	\$ -	\$ -	\$ -	\$ -
	Series 2010A	\$ 344,380	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Series 2010B	\$ 159,925	\$ 504,925	\$							

## Scenario 2

LAMP  
RYNEARSON

Revenues and Expenses	Item	2015-2016	2016-2017	2017-2018	Assumed Inflation Factor	2018-2019 <sup>[1]</sup>	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
<b>Residential Sewer Rates<sup>[2]</sup></b>											
Service Charge - Residential		\$14.76	\$14.76	\$14.76		\$18.67	\$23.62	\$23.62	\$23.62	\$23.62	\$23.62
Service Charge - Commercial/Industrial		\$26.75	\$26.75	\$26.75		\$33.84	\$42.81	\$42.81	\$42.81	\$42.81	\$42.81
Usage Rate <7,000 (per 1,000 gallons)		\$1.25	\$1.25	\$1.25		\$1.58	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00
Usage Rate 7,001 - 25,000 (per 1,000 gallons)		\$3.00	\$3.00	\$3.00		\$3.80	\$4.81	\$4.81	\$4.81	\$4.81	\$4.81
Usage Rate >25,001 (per 1,000 gallons)		\$3.95	\$3.95	\$3.95		\$5.00	\$6.33	\$6.33	\$6.33	\$6.33	\$6.33
Cost of a 5,000 gallon residential sewer bill		\$21.01	\$21.01	\$21.01		\$26.57	\$33.62	\$33.62	\$33.62	\$33.62	\$33.62
<b>Revenues</b>											
<b>Revenue from sewer collections</b>											
Sewer Billing		\$ 2,241,948	\$ 2,306,113	\$ 2,324,757		\$ 2,444,764	\$ 3,094,655	\$ 3,674,187	\$ 3,676,024	\$ 3,677,862	\$ 3,679,701
Penalties		\$ 32,091	\$ 30,675	\$ 29,306		\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Connection Fees		\$ 16,500	\$ 5,250	\$ 22,100		\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125
<b>Total Operating Revenue</b>		<b>\$ 2,290,540</b>	<b>\$ 2,342,038</b>	<b>\$ 2,376,163</b>		<b>\$ 2,475,889</b>	<b>\$ 3,125,780</b>	<b>\$ 3,705,312</b>	<b>\$ 3,707,149</b>	<b>\$ 3,708,987</b>	<b>\$ 3,710,826</b>
<b>Non-Operating Revenue</b>											
Investment Income		\$ 2,392	\$ 5,629	\$ 6,318		\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
Miscellaneous		\$ 4,505	\$ 5,318	\$ 2,395		\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Asset Disposal		\$ 1,768	\$ 6,323	\$ -		\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
Capital Asset Transfer		\$ 3,690	\$ 2,337	\$ 64,009		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Permits		\$ 17,775	\$ 23,554	\$ 47,250		\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500
<b>Total non-operating Revenue</b>		<b>\$ 30,129</b>	<b>\$ 43,161</b>	<b>\$ 119,972</b>		<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>
<b>Total Revenue</b>		<b>\$ 2,320,669</b>	<b>\$ 2,385,199</b>	<b>\$ 2,496,135</b>		<b>\$ 2,517,389</b>	<b>\$ 3,167,280</b>	<b>\$ 3,746,812</b>	<b>\$ 3,748,649</b>	<b>\$ 3,750,487</b>	<b>\$ 3,752,326</b>
<b>Expenses</b>											
<b>Operating Expenses</b>											
WWTP and Operation		\$ 942,281	\$ 1,071,572	\$ 1,243,747	4.0%	\$ 1,293,497	\$ 1,345,237	\$ 1,399,046	\$ 1,455,008	\$ 1,513,208	\$ 1,573,737
Maintenance		\$ 102,724	\$ 127,488	\$ 139,072	4.0%	\$ 144,635	\$ 150,420	\$ 156,437	\$ 162,694	\$ 169,202	\$ 175,970
Inflow and Infiltration		\$ 388,905	\$ 336,403	\$ 387,621	1.0%	\$ 391,497	\$ 395,412	\$ 399,366	\$ 403,360	\$ 407,393	\$ 411,467
New Operation & Maintenance		\$ -	\$ -	\$ -		\$ -	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180
<b>Total Operating Expenses</b>		<b>\$ 1,433,910</b>	<b>\$ 1,535,463</b>	<b>\$ 1,770,439</b>		<b>\$ 1,829,628</b>	<b>\$ 2,056,249</b>	<b>\$ 2,120,029</b>	<b>\$ 2,186,242</b>	<b>\$ 2,254,984</b>	<b>\$ 2,326,354</b>
<b>Wastewater Capital Improvements</b>											
85-WW-005-15:WWTP Overhead Doors						\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ -
85-ENV-004-15:Sampler						\$ -	\$ -	\$ -	\$ 4,500	\$ -	\$ -
85-ENV-007-15:Lift Station SCADA						\$ 20,000	\$ 20,000	\$ 20,000	\$ -	\$ -	\$ -
85-ENV-007-16:Pickup Trucks						\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000	\$ -
85-ENV-008-16:Portable Trash Pump						\$ -	\$ -	\$ -	\$ -	\$ 4,000	\$ -
85-ENV-006-17:Pipe Laser						\$ 5,500	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-007-17:Oak & Caitlin Sewer Extension						\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-002-18:Easement Cleaning Machine						\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-003-19:Portable Generator						\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -
85-ENV-001-17:WWTP Driveway Overlay						\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ -
85-ENV-001-18:Backhoe						\$ -	\$ -	\$ 110,000	\$ -	\$ -	\$ -
85-ENV-003-18:Replace Ex. WW Computer Systems						\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
85-ENV-001-19:Lift Station Improvements						\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
85-ENV-002-19:Benctop Spectrophotometer						\$ 6,000	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-004-19:Dump Truck						\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -
85-ENV-005-19:Standby Generator						\$ -	\$ -	\$ 80,000	\$ -	\$ -	\$ -
85-ENV-004-20:Excavator						\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
85-ENV-005-20:Biosolids Application Truck						\$ -	\$ 185,000	\$ -	\$ -	\$ -	\$ -
85-ENV-006-20:Equipment and Material Trailer						\$ -	\$ 8,000	\$ -	\$ -	\$ -	\$ -
85-ENV-007-20:Combination Cleaning Unit						\$ -	\$ -	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000
85-ENV-008-20:Emerald Lane Gravity Sewer Main						\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -
85-ENV-001-21:Sewer Main: Mizer Street						\$ -	\$ -	\$ 15,000	\$ -	\$ -	\$ -
85-ENV-002-21:Sewer Main: Barlow Street						\$ -	\$ -	\$ 12,000	\$ -	\$ -	\$ -
85-ENV-003-21:Sewer Main Marven Avenue						\$ -	\$ -	\$ 27,000	\$ -	\$ -	\$ -
85-ENV-004-21:Sewer Main: Perry Street						\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ -
85-ENV-005-21:IDEX						\$ -	\$ -	\$ 6,000	\$ -	\$ -	\$ -
85-ENV-006-21:Mechanical Convection Oven						\$ -	\$ -	\$ 5,000	\$ -	\$ -	\$ -
85-ENV-007-21:Analytical Balance						\$ -	\$ -	\$ 4,000	\$ -	\$ -	\$ -
85-ENV-001-22:Sewer Main: Hayes Street						\$ -	\$ -	\$ 16,000	\$ -	\$ -	\$ -
85-ENV-002-22:Sewer Main: Stave Mill Easement						\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ -
85-WWT-001-16: Oxidation Ditch Rehab						\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -
85-ENV-002-23:Lab/Portable PH, LBOD Meter						\$ -	\$ -	\$ -	\$ -	\$ 3,500	\$ -
85-ENV-001-24:Orion Camera (CCTV)						\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000
<b>Total CIP Budget</b>		<b>\$ 276,500</b>	<b>\$ 678,000</b>	<b>\$ 684,000</b>		<b>\$ 280,500</b>	<b>\$ 272,500</b>	<b>\$ 260,000</b>			
<b>Existing Wastewater Debt</b>											
2016 First State Community Bank Loan		\$ 79,274	\$ 79,274	\$							

### Scenario 3

LAMP  
RYNEARSON

Revenues and Expenses	Item	2015-2016	2016-2017	2017-2018	Assumed Inflation Factor	2018-2019 <sup>[1]</sup>	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
<b>Residential Sewer Rates<sup>[2]</sup></b>											
Service Charge - Residential	\$ 14.76	\$ 14.76	\$ 14.76			\$ 21.76	\$ 21.76	\$ 21.76	\$ 21.76	\$ 21.76	\$ 21.76
Service Charge - Commercial/Industrial	\$ 26.75	\$ 26.75	\$ 26.75			\$ 39.43	\$ 39.43	\$ 39.43	\$ 39.43	\$ 39.43	\$ 39.43
Usage Rate <7,000 (per 1,000 gallons)	\$ 1.25	\$ 1.25	\$ 1.25			\$ 1.84	\$ 1.84	\$ 1.84	\$ 1.84	\$ 1.84	\$ 1.84
Usage Rate 7,001 - 25,000 (per 1,000 gallons)	\$ 3.00	\$ 3.00	\$ 3.00			\$ 4.42	\$ 4.42	\$ 4.42	\$ 4.42	\$ 4.42	\$ 4.42
Usage Rate >25,001 (per 1,000 gallons)	\$ 3.95	\$ 3.95	\$ 3.95			\$ 5.82	\$ 5.82	\$ 5.82	\$ 5.82	\$ 5.82	\$ 5.82
Cost of a 5,000 gallon residential sewer bill	\$ 21.01	\$ 21.01	\$ 21.01			\$ 30.96	\$ 30.96	\$ 30.96	\$ 30.96	\$ 30.96	\$ 30.96
<b>Revenues</b>											
<b>Revenue from sewer collections</b>											
Sewer Billing	\$ 2,241,948	\$ 2,306,113	\$ 2,324,757			\$ 2,564,247	\$ 3,380,262	\$ 3,381,952	\$ 3,383,643	\$ 3,385,335	\$ 3,387,028
Penalties	\$ 32,091	\$ 30,675	\$ 29,306			\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Connection Fees	\$ 16,500	\$ 5,250	\$ 22,100			\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
<b>Total Operating Revenue</b>	<b>\$ 2,290,540</b>	<b>\$ 2,342,038</b>	<b>\$ 2,376,163</b>			<b>\$ 2,598,747</b>	<b>\$ 3,414,762</b>	<b>\$ 3,416,452</b>	<b>\$ 3,418,143</b>	<b>\$ 3,419,835</b>	<b>\$ 3,421,528</b>
<b>Non-Operating Revenue</b>											
Investment Income	\$ 2,392	\$ 5,629	\$ 6,318			\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
Miscellaneous	\$ 4,505	\$ 5,318	\$ 2,395			\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Asset Disposal	\$ 1,768	\$ 6,323	\$ -			\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
Capital Asset Transfer	\$ 3,690	\$ 2,337	\$ 64,009			\$ 65,000	\$ 65,000	\$ 65,000	\$ 65,000	\$ 65,000	\$ 65,000
Permits	\$ 17,775	\$ 23,554	\$ 47,250			\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500
<b>Total non-operating Revenue</b>	<b>\$ 30,129</b>	<b>\$ 43,161</b>	<b>\$ 119,972</b>			<b>\$ 106,500</b>	<b>\$ 106,500</b>	<b>\$ 106,500</b>	<b>\$ 106,500</b>	<b>\$ 106,500</b>	<b>\$ 106,500</b>
<b>Total Revenue</b>	<b>\$ 2,320,669</b>	<b>\$ 2,385,199</b>	<b>\$ 2,496,135</b>			<b>\$ 2,705,247</b>	<b>\$ 3,521,262</b>	<b>\$ 3,522,952</b>	<b>\$ 3,524,643</b>	<b>\$ 3,526,335</b>	<b>\$ 3,528,028</b>
<b>Expenses</b>											
<b>Operating Expenses</b>											
WWTP and Operation	\$ 942,281	\$ 1,071,572	\$ 1,243,747	4.0%		\$ 1,293,497	\$ 1,345,237	\$ 1,399,046	\$ 1,455,008	\$ 1,513,208	\$ 1,573,737
Maintenance	\$ 102,724	\$ 127,488	\$ 139,072	4.0%		\$ 144,635	\$ 150,420	\$ 156,437	\$ 162,694	\$ 169,202	\$ 175,970
Inflow and Infiltration	\$ 388,905	\$ 336,403	\$ 387,621	1.0%		\$ 391,497	\$ 395,412	\$ 399,366	\$ 403,360	\$ 407,393	\$ 411,467
New Operation & Maintenance	\$ -	\$ -	\$ -			\$ -	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180
<b>Total Operating Expenses</b>	<b>\$ 1,433,910</b>	<b>\$ 1,535,463</b>	<b>\$ 1,770,439</b>			<b>\$ 1,829,628</b>	<b>\$ 2,056,249</b>	<b>\$ 2,120,029</b>	<b>\$ 2,186,242</b>	<b>\$ 2,254,984</b>	<b>\$ 2,326,354</b>
<b>Wastewater Capital Improvements</b>											
85-WW-005-15:WWTP Overhead Doors	\$ -	\$ -	\$ 40,000			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-004-15:Sampler	\$ -	\$ -	\$ 4,500			\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000
85-ENV-007-15:Lift Station SCADA	\$ -	\$ -	\$ 30,000			\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
85-ENV-007-16:Pickup Trucks	\$ -	\$ -	\$ 5,500			\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
85-ENV-008-16:Portable Trash Pump	\$ -	\$ -	\$ 80,000			\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000
85-ENV-006-17:Pipe Laser	\$ -	\$ -	\$ 60,000			\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000
85-ENV-007-17:Oak & Caitlin Sewer Extension	\$ -	\$ -	\$ 40,000			\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
85-ENV-002-18:Easement Cleaning Machine	\$ -	\$ -	\$ 110,000			\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000
85-ENV-003-19:Portable Generator	\$ -	\$ -	\$ 5,000			\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
85-ENV-001-17:WWTP Driveway Overlay	\$ -	\$ -	\$ 100,000			\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
85-ENV-001-18:Backhoe	\$ -	\$ -	\$ 6,000			\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
85-ENV-003-18:Replace Ex. WW Computer Systems	\$ -	\$ -	\$ 150,000			\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
85-ENV-001-19:Lift Station Improvements	\$ -	\$ -	\$ 50,000			\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
85-ENV-002-19:Benchtop Spectrophotometer	\$ -	\$ -	\$ 185,000			\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000
85-ENV-004-19:Dump Truck	\$ -	\$ -	\$ 8,000			\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000
85-ENV-005-19:Standby Generator	\$ -	\$ -	\$ 100,000			\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
85-ENV-004-20:Excavator	\$ -	\$ -	\$ 15,000			\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000
85-ENV-005-20:Biosolids Application Truck	\$ -	\$ -	\$ 12,000			\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000
85-ENV-006-20:Equipment and Material Trailer	\$ -	\$ -	\$ 27,000			\$ 27,000	\$ 27,000	\$ 27,000	\$ 27,000	\$ 27,000	\$ 27,000
85-ENV-007-20:Combination Cleaning Unit	\$ -	\$ -	\$ 40,000			\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
85-ENV-008-20:Emerald Lane Gravity Sewer Main	\$ -	\$ -	\$ 6,000			\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
85-ENV-001-21:Sewer Main: Mizer Street	\$ -	\$ -	\$ 15,000			\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000
85-ENV-002-21:Sewer Main: Barlow Street	\$ -	\$ -	\$ 12,000			\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000
85-ENV-003-21:Sewer Main Marven Avenue	\$ -	\$ -	\$ 27,000			\$ 27,000	\$ 27,000	\$ 27,000	\$ 27,000	\$ 27,000	\$ 27,000
85-ENV-004-21:Sewer Main: Perry Street	\$ -	\$ -	\$ 40,000			\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
85-ENV-005-21:IDEX	\$ -	\$ -	\$ 6,000			\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
85-ENV-006-21:Mechanical Convection Oven	\$ -	\$ -	\$ 5,000			\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
85-ENV-007-21:Analytical Balance	\$ -	\$ -	\$ 4,000			\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000
85-ENV-001-22:Sewer Main: Hayes Street	\$ -	\$ -	\$ 16,000			\$ 16,000	\$ 16,000	\$ 16,000	\$ 16,000	\$ 16,000	\$ 16,000
85-ENV-002-22:Sewer Main: Stave Mill Easement	\$ -	\$ -	\$ 25,000			\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
85-WWT-001-16: Oxidation Ditch Rehab	\$ -	\$ -	\$ 50,000			\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
85-ENV-002-23:Lab/Portable PH, LBOD Meter	\$ -	\$ -	\$ 3,500			\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500
85-ENV-001-24:Orion Camera (CCTV)	\$ -	\$ -	\$ 25,000			\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
<b>Total CIP Budget</b>	<b>\$ 276,500</b>	<b>\$ 678,000</b>	<b>\$ 684,000</b>			<b>\$ 280,500</b>	<b>\$ 272,500</b>	<b>\$ 260,000</b>			
<b>Existing Wastewater Debt</b>											

NOTES: [1] Based on projections [2] Rate increase implemented April of each year [3] A 4%



## Scenario 4

LAMP  
RYNEARSON

Revenues and Expenses	Item	2015-2016	2016-2017	2017-2018	Assumed Inflation Factor	2018-2019 <sup>[1]</sup>	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
<b>Residential Sewer Rates<sup>[2]</sup></b>											
Service Charge - Residential		\$14.76	\$14.76	\$14.76		\$14.76	\$16.09	\$16.09	\$16.09	\$16.09	\$16.09
Service Charge - Commercial/Industrial		\$26.75	\$26.75	\$26.75		\$26.75	\$29.16	\$29.16	\$29.16	\$29.16	\$29.16
Usage Rate <7,000 (per 1,000 gallons)		\$1.25	\$1.25	\$1.25		\$3.50	\$3.82	\$3.82	\$3.82	\$3.82	\$3.82
Usage Rate 7,001 - 25,000 (per 1,000 gallons)		\$3.00	\$3.00	\$3.00		\$3.50	\$3.82	\$3.82	\$3.82	\$3.82	\$3.82
Usage Rate >25,001 (per 1,000 gallons)		\$3.95	\$3.95	\$3.95		\$3.50	\$3.82	\$3.82	\$3.82	\$3.82	\$3.82
Cost of a 5,000 gallon residential sewer bill		\$21.01	\$21.01	\$21.01		\$32.26	\$35.19	\$35.19	\$35.19	\$35.19	\$35.19
<b>Revenues</b>											
<b>Revenue from sewer collections</b>											
Sewer Billing		\$ 2,241,948	\$ 2,306,113	\$ 2,324,757		\$ 2,524,548	\$ 3,294,584	\$ 3,515,932	\$ 3,517,690	\$ 3,519,449	\$ 3,521,208
Penalties		\$ 32,091	\$ 30,675	\$ 29,306		\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Connection Fees		\$ 16,500	\$ 5,250	\$ 22,100		\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125
<b>Total Operating Revenue</b>		<b>\$ 2,290,540</b>	<b>\$ 2,342,038</b>	<b>\$ 2,376,163</b>		<b>\$ 2,555,673</b>	<b>\$ 3,325,709</b>	<b>\$ 3,547,057</b>	<b>\$ 3,548,815</b>	<b>\$ 3,550,574</b>	<b>\$ 3,552,333</b>
<b>Non-Operating Revenue</b>											
Investment Income		\$ 2,392	\$ 5,629	\$ 6,318		\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
Miscellaneous		\$ 4,505	\$ 5,318	\$ 2,395		\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Asset Disposal		\$ 1,768	\$ 6,323	\$ -		\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
Capital Asset Transfer		\$ 3,690	\$ 2,337	\$ 64,009		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Permits		\$ 17,775	\$ 23,554	\$ 47,250		\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500
<b>Total non-operating Revenue</b>		<b>\$ 30,129</b>	<b>\$ 43,161</b>	<b>\$ 119,972</b>		<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>
<b>Total Revenue</b>		<b>\$ 2,320,669</b>	<b>\$ 2,385,199</b>	<b>\$ 2,496,135</b>		<b>\$ 2,597,173</b>	<b>\$ 3,367,209</b>	<b>\$ 3,588,557</b>	<b>\$ 3,590,315</b>	<b>\$ 3,592,074</b>	<b>\$ 3,593,833</b>
<b>Expenses</b>											
<b>Operating Expenses</b>											
WWTP and Operation		\$ 942,281	\$ 1,071,572	\$ 1,243,747	4.0%	\$ 1,293,497	\$ 1,345,237	\$ 1,399,046	\$ 1,455,008	\$ 1,513,208	\$ 1,573,737
Maintenance		\$ 102,724	\$ 127,488	\$ 139,072	4.0%	\$ 144,635	\$ 150,420	\$ 156,437	\$ 162,694	\$ 169,202	\$ 175,970
Inflow and Infiltration		\$ 388,905	\$ 336,403	\$ 387,621	1.0%	\$ 391,497	\$ 395,412	\$ 399,366	\$ 403,360	\$ 407,393	\$ 411,467
New Operation & Maintenance		\$ -	\$ -	\$ -		\$ -	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180
<b>Total Operating Expenses</b>		<b>\$ 1,433,910</b>	<b>\$ 1,535,463</b>	<b>\$ 1,770,439</b>		<b>\$ 1,829,628</b>	<b>\$ 2,056,249</b>	<b>\$ 2,120,029</b>	<b>\$ 2,186,242</b>	<b>\$ 2,254,984</b>	<b>\$ 2,326,354</b>
<b>Wastewater Capital Improvements</b>											
85-WW-005-15:WWTP Overhead Doors		\$ -	\$ -	\$ 40,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-004-15:Sampler		\$ -	\$ -	\$ -		\$ 4,500	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-007-15:Lift Station SCADA		\$ 20,000	\$ 20,000	\$ 20,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-007-16:Pickup Trucks		\$ 30,000	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-008-16:Portable Trash Pump		\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-006-17:Pipe Laser		\$ 5,500	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-007-17:Oak & Caitlin Sewer Extension		\$ 30,000	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-002-18:Easement Cleaning Machine		\$ 80,000	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-003-19:Portable Generator		\$ -	\$ 60,000	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-001-17:WWTP Driveway Overlay		\$ -	\$ -	\$ 40,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-001-18:Backhoe		\$ -	\$ -	\$ 110,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-003-18:Replace Ex. WW Computer Systems		\$ 5,000	\$ 5,000	\$ 5,000		\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
85-ENV-001-19:Lift Station Improvements		\$ 100,000	\$ 100,000	\$ 100,000		\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
85-ENV-002-19:Benctop Spectrophotometer		\$ 6,000	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-004-19:Dump Truck		\$ -	\$ 150,000	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-005-19:Standby Generator		\$ -	\$ -	\$ 80,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-004-20:Excavator		\$ -	\$ 50,000	\$ 50,000		\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
85-ENV-005-20:Biosolids Application Truck		\$ -	\$ 185,000	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-006-20:Equipment and Material Trailer		\$ -	\$ 8,000	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-007-20:Combination Cleaning Unit		\$ -	\$ -	\$ 80,000		\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000
85-ENV-008-20:Emerald Lane Gravity Sewer Main		\$ -	\$ 100,000	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-001-21:Sewer Main: Mizer Street		\$ -	\$ -	\$ 15,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-002-21:Sewer Main: Barlow Street		\$ -	\$ -	\$ 12,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-003-21:Sewer Main Marven Avenue		\$ -	\$ -	\$ 27,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-004-21:Sewer Main: Perry Street		\$ -	\$ -	\$ 40,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-005-21:IDEX		\$ -	\$ -	\$ 6,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-006-21:Mechanical Convection Oven		\$ -	\$ -	\$ 5,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-007-21:Analytical Balance		\$ -	\$ -	\$ 4,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-001-22:Sewer Main: Hayes Street		\$ -	\$ -	\$ 16,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-002-22:Sewer Main: Stave Mill Easement		\$ -	\$ -	\$ 25,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-WWT-001-16: Oxidation Ditch Rehab		\$ -	\$ -	\$ 50,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-002-23:Lab/Portable PH, LBOD Meter		\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ 3,500	\$ -
85-ENV-001-24:Orion Camera (CCTV)		\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ -
<b>Total CIP Budget</b>		<b>\$ 276,500</b>	<b>\$ 678</b>								

## Scenario 5

Revenues and Expenses	Item	2015-2016	2016-2017	2017-2018	Assumed Inflation Factor	2018-2019 <sup>[1]</sup>	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
<b>Residential Sewer Rates<sup>[2]</sup></b>											
Service Charge: 5/8-inch Meter	\$14.76	\$14.76	\$14.76		\$19.29	\$25.21	\$25.21	\$25.21	\$25.21	\$25.21	\$25.21
Service Charge: >5/8-inch Meter	\$26.75	\$26.75	\$26.75		\$34.96	\$45.69	\$45.69	\$45.69	\$45.69	\$45.69	\$45.69
Usage Rate <7,000 (per 1,000 gallons)	\$1.25	\$1.25	\$1.25		\$1.63	\$2.13	\$2.13	\$2.13	\$2.13	\$2.13	\$2.13
Usage Rate 7,001 - 25,000 (per 1,000 gallons)	\$3.00	\$3.00	\$3.00		\$3.92	\$5.12	\$5.12	\$5.12	\$5.12	\$5.12	\$5.12
Usage Rate >25,001 (per 1,000 gallons)	\$3.95	\$3.95	\$3.95		\$5.16	\$6.74	\$6.74	\$6.74	\$6.74	\$6.74	\$6.74
Percent Rate Increase	0%	0%	0%		<b>30.7%</b>	<b>30.7%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
Cost of a 5,000 gallon residential sewer bill	\$21.01	\$21.01	\$21.01		\$27.44	\$35.86	\$35.86	\$35.86	\$35.86	\$35.86	\$35.86
<b>Revenues</b>											
<i>Revenue from sewer collections</i>											
Sewer Billing	\$ 2,241,948	\$ 2,306,113	\$ 2,324,757		\$ 2,369,592	\$ 3,096,343	\$ 3,758,808	\$ 3,759,779	\$ 3,760,750	\$ 3,761,721	
Penalties	\$ 32,091	\$ 30,675	\$ 29,306		\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	
Connection Fees	\$ 16,500	\$ 5,250	\$ 22,100		\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125	
<b>Total Operating Revenue</b>	<b>\$ 2,290,540</b>	<b>\$ 2,342,038</b>	<b>\$ 2,376,163</b>		<b>\$ 2,400,717</b>	<b>\$ 3,127,468</b>	<b>\$ 3,789,933</b>	<b>\$ 3,790,904</b>	<b>\$ 3,791,875</b>	<b>\$ 3,792,846</b>	
<i>Non-Operating Revenue</i>											
Investment Income	\$ 2,392	\$ 5,629	\$ 6,318		\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	
Miscellaneous	\$ 4,505	\$ 5,318	\$ 2,395		\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	
Asset Disposal	\$ 1,768	\$ 6,323	\$ -		\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	
Capital Asset Transfer	\$ 3,690	\$ 2,337	\$ 64,009		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Permits	\$ 17,775	\$ 23,554	\$ 47,250		\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	
<b>Total non-operating Revenue</b>	<b>\$ 30,129</b>	<b>\$ 43,161</b>	<b>\$ 119,972</b>		<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	
<b>Total Revenue</b>	<b>\$ 2,320,669</b>	<b>\$ 2,385,199</b>	<b>\$ 2,496,135</b>		<b>\$ 2,442,217</b>	<b>\$ 3,168,968</b>	<b>\$ 3,831,433</b>	<b>\$ 3,832,404</b>	<b>\$ 3,833,375</b>	<b>\$ 3,834,346</b>	
<i>Expenses</i>											
<i>Operating Expenses</i>											
WWTP and Operation	\$ 942,281	\$ 1,071,572	\$ 1,243,747	4.0%	\$ 1,293,497	\$ 1,345,237	\$ 1,399,046	\$ 1,455,008	\$ 1,513,208	\$ 1,573,737	
Maintenance	\$ 102,724	\$ 127,488	\$ 139,072	4.0%	\$ 144,635	\$ 150,420	\$ 156,437	\$ 162,694	\$ 169,202	\$ 175,970	
Inflow and Infiltration	\$ 388,905	\$ 336,403	\$ 387,621	1.0%	\$ 391,497	\$ 395,412	\$ 399,366	\$ 403,360	\$ 407,393	\$ 411,467	
New Operation & Maintenance	\$ -	\$ -	\$ -		\$ -	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180	
<b>Total Operating Expenses</b>	<b>\$ 1,433,910</b>	<b>\$ 1,535,463</b>	<b>\$ 1,770,439</b>		<b>\$ 1,829,628</b>	<b>\$ 2,056,249</b>	<b>\$ 2,120,029</b>	<b>\$ 2,186,242</b>	<b>\$ 2,254,984</b>	<b>\$ 2,326,354</b>	
<i>Wastewater Capital Improvements</i>											
85-WW-005-15:WWTP Overhead Doors	\$ -	\$ -	\$ 40,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
85-ENV-004-15:Sampler	\$ -	\$ -	\$ -		\$ -	\$ 4,500	\$ -	\$ -	\$ -	\$ -	
85-ENV-007-15:Lift Station SCADA	\$ 20,000	\$ 20,000	\$ 20,000		\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -	
85-ENV-007-16:Pickup Trucks	\$ 30,000	\$ -	\$ -		\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	
85-ENV-008-16:Portable Trash Pump	\$ -	\$ -	\$ -		\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -	
85-ENV-006-17:Pipe Laser	\$ 5,500	\$ -	\$ -		\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ -	
85-ENV-007-17:Oak & Caitlin Sewer Extension	\$ 30,000	\$ -	\$ -		\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-002-18:Easement Cleaning Machine	\$ 80,000	\$ -	\$ -		\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-003-19:Portable Generator	\$ -	\$ -	\$ 110,000		\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-001-17:WWTP Driveway Overlay	\$ 5,000	\$ 5,000	\$ 5,000		\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-001-18:Backhoe	\$ 100,000	\$ 100,000	\$ 100,000		\$ 6,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-003-18:Replace Ex. WW Computer Systems	\$ 6,000	\$ -	\$ -		\$ -	\$ 8,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-001-19:Lift Station Improvements	\$ -	\$ -	\$ 80,000		\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-002-19:Benchtop Spectrophotometer	\$ -	\$ -	\$ 50,000		\$ -	\$ 185,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-004-19:Dump Truck	\$ -	\$ -	\$ 80,000		\$ -	\$ 8,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-005-19:Standby Generator	\$ -	\$ -	\$ 80,000		\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-004-20:Excavator	\$ -	\$ -	\$ 15,000		\$ -	\$ 27,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-005-20:Biosolids Application Truck	\$ -	\$ -	\$ 40,000		\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-006-20:Equipment and Material Trailer	\$ -	\$ -	\$ 6,000		\$ -	\$ 6,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-007-20:Combination Cleaning Unit	\$ -	\$ -	\$ 4,000		\$ -	\$ 16,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-008-20:Emerald Lane Gravity Sewer Main	\$ -	\$ -	\$ 25,000		\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	
85-ENV-001-21:Sewer Main: Mizer Street	\$ -	\$ -	\$ 50,000		\$ -	\$ 62,544	\$ -	\$ -	\$ -	\$ -	
85-ENV-002-21:Sewer Main: Barlow Street	\$ -	\$ -	\$ 62,544		\$ -	\$ 62,544	\$ -	\$ -	\$ -	\$ -	
85-ENV-003-21:Sewer Main Marven Avenue	\$ -	\$ -	\$ 62,544		\$ -	\$ 62,544	\$ -	\$ -	\$ -	\$ -	
85-ENV-004-21:Sewer Main: Perry Street	\$ -	\$ -	\$ 62,544		\$ -	\$ 62,544	\$ -	\$ -	\$ -	\$ -	
85-ENV-005-21:IDEX	\$ -	\$ -	\$ 62,544		\$ -	\$ 62,544	\$ -	\$ -	\$ -	\$ -	
85-ENV-006-21:Mechanical Convection Oven	\$ -	\$ -	\$ 62,544		\$ -	\$ 62,544	\$ -	\$ -	\$ -	\$ -	
85-ENV-007-21:Analytical Balance	\$ -	\$ -	\$ 62,544		\$ -	\$ 62,544	\$ -	\$ -	\$ -	\$ -	
85-ENV-001-22:Sewer Main: Hayes Street	\$ -	\$ -	\$ 62,544		\$ -	\$ 62,544	\$ -	\$ -	\$ -	\$ -	
85-ENV-002-22:Sewer Main: Stave Mill Easement	\$ -	\$ -	\$ 62,544		\$ -	\$ 62,544	\$ -	\$ -	\$ -	\$ -	
85-WWT-001-16: Oxidation Ditch Rehab	\$ -	\$ -	\$ 62,544		\$ -	\$ 62,544	\$ -	\$ -	\$ -	\$ -	
85-ENV-002-23:Lab/Portable PH, LBOD Meter	\$ -	\$ -	\$ 62,544		\$ -</td						

## Scenario 6

Revenues and Expenses	Item	2015-2016	2016-2017	2017-2018	Assumed Inflation Factor	2018-2019 <sup>[1]</sup>					
						2018-2019 <sup>[1]</sup>	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
<b>Residential Sewer Rates<sup>[2]</sup></b>											
Service Charge: 5/8-inch meter	\$14.76	\$14.76	\$14.76			\$18.89	\$24.18	\$24.18	\$24.18	\$24.18	\$24.18
Service Charge: 1-inch meter	n/a	n/a	n/a			\$24.64	\$31.54	\$31.54	\$31.54	\$31.54	\$31.54
Service Charge: 1.5-inch meter	n/a	n/a	n/a			\$35.06	\$44.88	\$44.88	\$44.88	\$44.88	\$44.88
Service Charge: 2-inch meter	n/a	n/a	n/a			\$51.42	\$65.82	\$65.82	\$65.82	\$65.82	\$65.82
Service Charge: 3-inch meter	n/a	n/a	n/a			\$145.86	\$186.70	\$186.70	\$186.70	\$186.70	\$186.70
Service Charge: 4-inch meter	n/a	n/a	n/a			\$201.18	\$257.51	\$257.51	\$257.51	\$257.51	\$257.51
Service Charge: 6-inch meter	n/a	n/a	n/a			\$330.70	\$423.30	\$423.30	\$423.30	\$423.30	\$423.30
Usage Rate <7,000 (per 1,000 gallons)	\$1.25	\$1.25	\$1.25			\$1.63	\$2.13	\$2.13	\$2.13	\$2.13	\$2.13
Usage Rate 7,001 - 25,000 (per 1,000 gallons)	\$3.00	\$3.00	\$3.00			\$3.92	\$5.12	\$5.12	\$5.12	\$5.12	\$5.12
Usage Rate >25,001 (per 1,000 gallons)	\$3.95	\$3.95	\$3.95			\$5.16	\$6.74	\$6.74	\$6.74	\$6.74	\$6.74
Cost of a 5,000 gallon residential sewer bill	\$21.01	\$21.01	\$21.01			\$27.04	\$34.83	\$34.83	\$34.83	\$34.83	\$34.83
<b>Revenues</b>											
<b>Revenue from sewer collections</b>											
Sewer Billing	\$ 2,241,948	\$ 2,306,113	\$ 2,324,757			\$ 2,437,946	\$ 3,087,424	\$ 3,718,030	\$ 3,718,961	\$ 3,719,893	\$ 3,720,824
Penalties	\$ 32,091	\$ 30,675	\$ 29,306			\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Connection Fees	\$ 16,500	\$ 5,250	\$ 22,100			\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125	\$ 1,125
<b>Total Operating Revenue</b>	<b>\$ 2,290,540</b>	<b>\$ 2,342,038</b>	<b>\$ 2,376,163</b>			<b>\$ 2,469,071</b>	<b>\$ 3,118,549</b>	<b>\$ 3,749,155</b>	<b>\$ 3,750,086</b>	<b>\$ 3,751,018</b>	<b>\$ 3,751,949</b>
<b>Non-Operating Revenue</b>											
Investment Income	\$ 2,392	\$ 5,629	\$ 6,318			\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
Miscellaneous	\$ 4,505	\$ 5,318	\$ 2,395			\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Asset Disposal	\$ 1,768	\$ 6,323	\$ -			\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
Capital Asset Transfer	\$ 3,690	\$ 2,337	\$ 64,009			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Permits	\$ 17,775	\$ 23,554	\$ 47,250			\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500	\$ 27,500
<b>Total non-operating Revenue</b>	<b>\$ 30,129</b>	<b>\$ 43,161</b>	<b>\$ 119,972</b>			<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>	<b>\$ 41,500</b>
<b>Total Revenue</b>	<b>\$ 2,320,669</b>	<b>\$ 2,385,199</b>	<b>\$ 2,496,135</b>			<b>\$ 2,510,571</b>	<b>\$ 3,160,049</b>	<b>\$ 3,790,655</b>	<b>\$ 3,791,586</b>	<b>\$ 3,792,518</b>	<b>\$ 3,793,449</b>
<b>Expenses</b>											
<b>Operating Expenses</b>											
WWTP and Operation	\$ 942,281	\$ 1,071,572	\$ 1,243,747	4.0%		\$ 1,293,497	\$ 1,345,237	\$ 1,399,046	\$ 1,455,008	\$ 1,513,208	\$ 1,573,737
Maintenance	\$ 102,724	\$ 127,488	\$ 139,072	4.0%		\$ 144,635	\$ 150,420	\$ 156,437	\$ 162,694	\$ 169,202	\$ 175,970
Inflow and Infiltration	\$ 388,905	\$ 336,403	\$ 387,621	1.0%		\$ 391,497	\$ 395,412	\$ 399,366	\$ 403,360	\$ 407,393	\$ 411,467
New Operation & Maintenance	\$ -	\$ -	\$ -			\$ -	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180	\$ 165,180
<b>Total Operating Expenses</b>	<b>\$ 1,433,910</b>	<b>\$ 1,535,463</b>	<b>\$ 1,770,439</b>			<b>\$ 1,829,628</b>	<b>\$ 2,056,249</b>	<b>\$ 2,120,029</b>	<b>\$ 2,186,242</b>	<b>\$ 2,254,984</b>	<b>\$ 2,326,354</b>
<b>Wastewater Capital Improvements</b>											
85-WW-005-15:WWTP Overhead Doors	\$ -	\$ -	\$ 40,000			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-004-15:Sampler	\$ -	\$ -	\$ -			\$ -	\$ 4,500	\$ -	\$ -	\$ -	\$ -
85-ENV-007-15:Lift Station SCADA	\$ 20,000	\$ 20,000	\$ 20,000			\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000	\$ -
85-ENV-007-16:Pickup Trucks	\$ 30,000	\$ -	\$ -			\$ -	\$ -	\$ -	\$ 4,000	\$ -	\$ -
85-ENV-008-16:Portable Trash Pump	\$ 5,500	\$ -	\$ -			\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-006-17:Pipe Laser	\$ 80,000	\$ -	\$ -			\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-007-17:Oak & Caitlin Sewer Extension	\$ -	\$ 60,000	\$ -			\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ -
85-ENV-002-18:Easement Cleaning Machine	\$ -	\$ -	\$ 110,000			\$ -	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
85-ENV-003-19:Portable Generator	\$ 5,000	\$ 5,000	\$ 5,000			\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
85-ENV-001-17:WWTP Driveway Overlay	\$ 6,000	\$ -	\$ -			\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-001-18:Backhoe	\$ -	\$ 8,000	\$ -			\$ 80,000	\$ -	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000
85-ENV-003-18:Replace Ex. WW Computer Systems	\$ -	\$ -	\$ 100,000			\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
85-ENV-001-19:Lift Station Improvements	\$ -	\$ -	\$ 12,000			\$ 185,000	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-002-19:Benchtop Spectrophotometer	\$ -	\$ -	\$ 27,000			\$ 8,000	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-004-19:Dump Truck	\$ -	\$ -	\$ 40,000			\$ -	\$ 6,000	\$ -	\$ -	\$ -	\$ -
85-ENV-005-19:Standby Generator	\$ -	\$ -	\$ 5,000			\$ -	\$ 4,000	\$ -	\$ -	\$ -	\$ -
85-ENV-004-20:Excavator	\$ -	\$ -	\$ 4,000			\$ -	\$ 16,000	\$ -	\$ -	\$ -	\$ -
85-ENV-005-20:Biosolids Application Truck	\$ -	\$ -	\$ 25,000			\$ 50,000	\$ -	\$ 25,000	\$ -	\$ -	\$ -
85-ENV-006-20:Equipment and Material Trailer	\$ -	\$ -	\$ 50,000			\$ 100,000	\$ -	\$ 50,000	\$ -	\$ 3,500	\$ -
85-ENV-007-20:Combination Cleaning Unit	\$ -	\$ -	\$ 100,000			\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -
85-ENV-008-20:Emerald Lane Gravity Sewer Main	\$ -	\$ -	\$ 12,000			\$ -	\$ 12,000	\$ -	\$ -	\$ -	\$ -
85-ENV-001-21:Sewer Main: Mizer Street	\$ -	\$ -	\$ 27,000			\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ -
85-ENV-002-21:Sewer Main: Barlow Street	\$ -	\$ -	\$ 6,000			\$ -	\$ 6,000	\$ -	\$ -	\$ -	\$ -
85-ENV-003-21:Sewer Main Marven Avenue	\$ -	\$ -	\$ 5,000			\$ -	\$ 5,000	\$ -	\$ -	\$ -	\$ -
85-ENV-004-21:Sewer Main: Perry Street	\$ -	\$ -	\$ 4,000								

# Appendix D

## Sewer Operation Revenue Projections

# Lebanon, Missouri

## Sewer Collection Revenue Projections

Bill Tabulation Base <sup>[1]</sup>	Fiscal Year								
	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Service Charge - Residential	\$14.76	\$14.76	\$14.76	\$21.11	\$21.64	\$22.18	\$22.73	\$23.30	\$23.88
Service Charge - Commercial/Industrial	\$26.75	\$26.75	\$26.75	\$38.25	\$39.21	\$40.19	\$41.19	\$42.22	\$43.28
Usage Rate <7,000 (per 1,000 gallons)	\$1.25	\$1.25	\$1.25	\$1.79	\$1.83	\$1.88	\$1.93	\$1.98	\$2.03
Usage Rate 7,001 - 25,000 (per 1,000 gal)	\$3.00	\$3.00	\$3.00	\$4.29	\$4.40	\$4.51	\$4.62	\$4.74	\$4.86
Usage Rate >25,001 (per 1,000 gallons)	\$3.95	\$3.95	\$3.95	\$5.65	\$5.79	\$5.93	\$6.08	\$6.23	\$6.39
Percent Rate Increase	0.0%	0.0%	0.0%	43.0%	2.5%	2.5%	2.5%	2.5%	2.5%

Gallons Used From: To:	2018 - Data		Projected Sewer Charges <sup>[3]</sup>								
	Users in Range	Total Gallons Used	\$ 115,046	\$ 115,046	\$ 115,046	\$ 127,434	\$ 165,599	\$ 169,685	\$ 174,015	\$ 178,416	\$ 182,916
- 7,000	5,304	23,386,356	\$ 115,046	\$ 115,046	\$ 115,046	\$ 127,434	\$ 165,599	\$ 169,685	\$ 174,015	\$ 178,416	\$ 182,916
7,001 25,000	840	16,700,286	\$ 66,641	\$ 66,641	\$ 66,641	\$ 73,808	\$ 95,906	\$ 98,315	\$ 100,788	\$ 103,311	\$ 105,947
25,001 $\infty$	54	2,323,239	\$ 9,285	\$ 9,285	\$ 9,285	\$ 10,283	\$ 13,363	\$ 13,696	\$ 14,036	\$ 14,387	\$ 14,751

# of Suspected Act. Services	6198	42,409,881								
Monthly Sewer Collection Charges <sup>[2]</sup>			\$ 190,781	\$ 190,876	\$ 190,972	\$ 211,631	\$ 275,143	\$ 282,118	\$ 289,417	\$ 296,855
Annualized Amount (Average Month x 12)	508,918,573	\$ 2,289,368	\$ 2,290,513	\$ 2,291,659	\$ 2,539,572	\$ 3,301,718	\$ 3,385,416	\$ 3,473,001	\$ 3,562,258	\$ 3,654,315

Historical Annual Revenue	\$ 2,241,948	\$ 2,306,113	\$ 2,324,757
Percent Discrepancy (%)	2.1%	-0.7%	-1.4%

[1] Average usage was a data set of January - October 2018

[2] Total Charges are inflated 0.5% per year beginning in 2019 fiscal year to account for growth in the number of active services (0.5% is the average sewer service growth for past 3 years)

[3] All projected sewer collection revenue was increased by 7.0% for calibration of projected revenue model based on historical sewer revenue

### Projected Revenues

## Lebanon, Missouri

### Sewer Collection Revenue Projections

#### Fiscal Year<sup>[3]</sup>

Scenario 1	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Service Charge - Residential	\$14.76	\$21.11	\$21.64	\$22.18	\$22.73	\$23.30	\$23.88
Service Charge - Commercial/Industrial	\$26.75	\$38.25	\$39.21	\$40.19	\$41.19	\$42.22	\$43.28
Usage Rate <7,000 (per 1,000 gal)	\$1.25	\$1.79	\$1.83	\$1.88	\$1.93	\$1.98	\$2.03
Usage Rate 7,001 - 25,000 (per 1,000 gal)	\$3.00	\$4.29	\$4.40	\$4.51	\$4.62	\$4.74	\$4.86
Usage Rate 25,001-200,000 (per 1,000 gal)	\$3.95	\$5.65	\$5.79	\$5.93	\$6.08	\$6.23	\$6.39
Usage Rate >200,001 (per 1,000 gal)	\$1.40	\$2.00	\$2.05	\$2.10	\$2.15	\$2.20	\$2.26

Gallons Used From: To:	2018 - Data <sup>[1]</sup>		Projected Sewer Charges <sup>[4]</sup>						
	Users in Range	Total Gallons Used							
- 7,000	5,304	23,386,356	\$ 115,046	\$ 127,434	\$ 165,599	\$ 169,685	\$ 174,015	\$ 178,416	\$ 182,916
7,001 25,000	840	16,700,286	\$ 66,641	\$ 73,808	\$ 95,906	\$ 98,315	\$ 100,788	\$ 103,311	\$ 105,947
25,001 $\infty$	54	2,323,239	\$ 9,285	\$ 10,283	\$ 13,363	\$ 13,696	\$ 14,036	\$ 14,387	\$ 14,751
# of Suspected Act Services	6198	42,409,881							
Monthly Sewer Collection Charges <sup>[2]</sup>			\$ 190,972	\$ 211,631	\$ 275,143	\$ 282,118	\$ 289,417	\$ 296,855	\$ 304,526
<b>Annualized Amount (Average Month x 12)</b>		<b>508,918,573</b>	<b>\$ 2,291,659</b>	<b>\$ 2,539,572</b>	<b>\$ 3,301,718</b>	<b>\$ 3,385,416</b>	<b>\$ 3,473,001</b>	<b>\$ 3,562,258</b>	<b>\$ 3,654,315</b>

[1] Average usage was a data set of January - October 2018

[2] Total Charges are inflated 0.5% per year beginning in 2019 fiscal year to account for growth in the number of active services (0.5% is the average sewer service growth for past 3 years)

[3] Fiscal Years end June 31st. Rate increases go into affect April 1st of each year. Projected revenues are weighted 75% based on the previous years and 25% on the proposed rates

[4] All projected sewer collection revenue was increased by 7.0% for calibration of projected revenue model based on historical sewer revenue

Sewer Revenue	Fiscal Year						
	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Revenue From Residential Service Charge	\$ 939,444	\$ 1,343,609	\$ 1,378,031	\$ 1,413,125	\$ 1,448,890	\$ 1,485,967	\$ 1,523,718
Revenue From Commercial Service Charge	\$ 286,974	\$ 410,346	\$ 420,855	\$ 431,590	\$ 442,549	\$ 453,843	\$ 465,470
Revenue for usage <b>below</b> 7,000 gal/mo.	\$ 375,351	\$ 415,889	\$ 540,505	\$ 553,267	\$ 568,281	\$ 583,295	\$ 598,310
Revenue for usage 7,000-25,000 gal/mo.	\$ 601,210	\$ 566,170	\$ 735,739	\$ 754,231	\$ 773,288	\$ 792,693	\$ 813,140
Revenue for usage <b>above</b> 25,000 gal/mo.	\$ 110,122	\$ 102,860	\$ 133,663	\$ 136,991	\$ 140,388	\$ 143,909	\$ 147,555



Scenario 1

*Projected Revenues*

**Lebanon, Missouri**  
**Sewer Collection Revenue Projections**

Scenario 2	Fiscal Year <sup>[3]</sup>						
	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Service Charge - Residential	\$14.76	\$18.67	\$23.62	\$23.62	\$23.62	\$23.62	\$23.62
Service Charge - Commercial/Industrial	\$26.75	\$33.84	\$42.81	\$42.81	\$42.81	\$42.81	\$42.81
Usage Rate <7,000 (per 1,000 gallons)	\$1.25	\$1.58	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00
Usage Rate 7,001 - 25,000 (per 1,000 gal)	\$3.00	\$3.80	\$4.81	\$4.81	\$4.81	\$4.81	\$4.81
Usage Rate 25,001-200,000 (per 1,000 gal)	\$3.95	\$5.00	\$6.33	\$6.33	\$6.33	\$6.33	\$6.33
Usage Rate >200,001 (per 1,000 gal)	\$1.40	\$1.77	\$2.24	\$2.24	\$2.24	\$2.24	\$2.24

Gallons Used From: To:	2018 - Data <sup>[1]</sup>		Projected Sewer Charges <sup>[4]</sup>						
	Users in Range	Total Gallons Used	\$	\$	\$	\$	\$	\$	\$
- 7,000	5,304	23,386,356	\$ 115,046	\$ 122,658	\$ 155,145	\$ 184,097	\$ 184,097	\$ 184,097	\$ 184,097
7,001 25,000	840	16,700,286	\$ 66,641	\$ 71,068	\$ 89,951	\$ 106,750	\$ 106,750	\$ 106,750	\$ 106,750
25,001 $\infty$	54	2,323,239	\$ 9,285	\$ 9,902	\$ 12,534	\$ 14,877	\$ 14,877	\$ 14,877	\$ 14,877
# of Suspected Act Service	6198	42,409,881							
Monthly Sewer Collection Charges <sup>[2]</sup>			\$ 190,972	\$ 203,730	\$ 257,888	\$ 306,182	\$ 306,335	\$ 306,489	\$ 306,642
<b>Annualized Amount (Average Month x 12)</b>		<b>508,918,573</b>	<b>\$ 2,291,659</b>	<b>\$ 2,444,764</b>	<b>\$ 3,094,655</b>	<b>\$ 3,674,187</b>	<b>\$ 3,676,024</b>	<b>\$ 3,677,862</b>	<b>\$ 3,679,701</b>

[1] Average usage was a data set of January - October 2018

[2] Total Charges are inflated 0.5% per year beginning in 2019 fiscal year to account for growth in the number of active services (0.5% is the average sewer service growth for past 3 years)

[3] Fiscal Years end June 31st. Rate increases go into affect April 1st of each year. Projected revenues are weighted 75% based on the previous years and 25% on the proposed rates

[4] All projected sewer collection revenue was increased by 7.0% for calibration of projected revenue model based on historical sewer revenue

Sewer Revenue	Fiscal Year						
	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Revenue From Residential Service Charge	\$ 939,444	\$ 1,188,308	\$ 1,504,117	\$ 1,504,870	\$ 1,505,622	\$ 1,506,375	\$ 1,507,128
Revenue From Commercial Service Charge	\$ 286,974	\$ 363,036	\$ 459,495	\$ 459,725	\$ 459,955	\$ 460,185	\$ 460,415
Revenue for usage <u>below</u> 7,000 gal/mo.	\$ 375,351	\$ 400,124	\$ 505,973	\$ 600,562	\$ 600,562	\$ 600,562	\$ 600,562
Revenue for usage 7,000-25,000 gal/mo.	\$ 601,210	\$ 545,187	\$ 690,240	\$ 819,264	\$ 819,264	\$ 819,264	\$ 819,264
Revenue for usage <u>above</u> 25,000 gal/mo.	\$ 110,122	\$ 99,046	\$ 125,392	\$ 148,840	\$ 148,840	\$ 148,840	\$ 148,840



Scenario 2

*Projected Revenues*

## Lebanon, Missouri

### Sewer Collection Revenue Projections

#### Fiscal Year<sup>[3]</sup>

Scenario 3	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Service Charge - Residential	\$14.76	\$21.76	\$21.76	\$21.76	\$21.76	\$21.76	\$21.76
Service Charge - Commercial/Industrial	\$26.75	\$39.43	\$39.43	\$39.43	\$39.43	\$39.43	\$39.43
Usage Rate <7,000 (per 1,000 gallons)	\$1.25	\$1.84	\$1.84	\$1.84	\$1.84	\$1.84	\$1.84
Usage Rate 7,001 - 25,000 (per 1,000 gal)	\$3.00	\$4.42	\$4.42	\$4.42	\$4.42	\$4.42	\$4.42
Usage Rate 25,001-200,000 (per 1,000 gal)	\$3.95	\$5.82	\$5.82	\$5.82	\$5.82	\$5.82	\$5.82
Usage Rate >200,001 (per 1,000 gal)	\$1.40	\$2.06	\$2.06	\$2.06	\$2.06	\$2.06	\$2.06

Gallons Used From: To:	2018 - Data <sup>[1]</sup>		Projected Sewer Charges <sup>[4]</sup>						
	Users in Range	Total Gallons Used							
- 7,000	5,304	23,386,356	\$ 115,046	\$ 128,669	\$ 169,537	\$ 169,537	\$ 169,537	\$ 169,537	\$ 169,537
7,001 25,000	840	16,700,286	\$ 66,641	\$ 74,528	\$ 98,190	\$ 98,190	\$ 98,190	\$ 98,190	\$ 98,190
25,001 $\infty$	54	2,323,239	\$ 9,285	\$ 10,384	\$ 13,680	\$ 13,680	\$ 13,680	\$ 13,680	\$ 13,680
# of Suspected Act Services	6198	42,409,881							
Monthly Sewer Collection Charges <sup>[2]</sup>			\$ 190,972	\$ 213,687	\$ 281,689	\$ 281,829	\$ 281,970	\$ 282,111	\$ 282,252
Annualized Amount (Average Month x 12)		508,918,573	\$ 2,291,659	\$ 2,564,247	\$ 3,380,262	\$ 3,381,952	\$ 3,383,643	\$ 3,385,335	\$ 3,387,028

[1] Average usage was a data set of January - October 2018

[2] Total Charges are inflated 0.5% per year beginning in 2019 fiscal year to account for growth in the number of active services (0.5% is the average sewer service growth for past 3 years)

[3] Fiscal Years end June 31st. Rate increases go into affect April 1st of each year. Projected revenues are weighted 75% based on the previous years and 25% on the proposed rates

[4] All projected sewer collection revenue was increased by 7.0% for calibration of projected revenue model based on historical sewer revenue

Sewer Revenue	Fiscal Year						
	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Revenue From Residential Service Charge	\$ 939,444	\$ 1,384,980	\$ 1,385,673	\$ 1,386,366	\$ 1,387,059	\$ 1,387,753	\$ 1,388,446
Revenue From Commercial Service Charge	\$ 286,974	\$ 423,005	\$ 423,217	\$ 423,428	\$ 423,640	\$ 423,852	\$ 424,064
Revenue for usage <b>below</b> 7,000 gal/mo.	\$ 375,351	\$ 419,642	\$ 552,517	\$ 552,517	\$ 552,517	\$ 552,517	\$ 552,517
Revenue for usage 7,000-25,000 gal/mo.	\$ 601,210	\$ 571,629	\$ 753,000	\$ 753,000	\$ 753,000	\$ 753,000	\$ 753,000
Revenue for usage <b>above</b> 25,000 gal/mo.	\$ 110,122	\$ 103,858	\$ 136,823	\$ 136,823	\$ 136,823	\$ 136,823	\$ 136,823



Scenario 3

*Projected Revenues*

**Lebanon, Missouri**  
Sewer Collection Revenue Projections

				<b>Fiscal Year<sup>[3]</sup></b>						
<b>Scenario 4</b>				<b>2017-2018</b>	<b>2018-2019</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-2023</b>	<b>2023-2024</b>
Service Charge - Residential				\$14.76	\$14.76	\$16.09	\$16.09	\$16.09	\$16.09	\$16.09
Service Charge - Commercial/Industrial				\$26.75	\$26.75	\$29.16	\$29.16	\$29.16	\$29.16	\$29.16
Usage Rate <7,000 (per 1,000 gallons)				\$1.25	\$3.50	\$3.82	\$3.82	\$3.82	\$3.82	\$3.82
Usage Rate 7,001 - 25,000 (per 1,000 gal)				\$3.00	\$3.50	\$3.82	\$3.82	\$3.82	\$3.82	\$3.82
Usage Rate 25,001-200,000 (per 1,000 gal)				\$3.95	\$3.50	\$3.82	\$3.82	\$3.82	\$3.82	\$3.82
Usage Rate >200,001 (per 1,000 gal)				\$1.40	\$3.50	\$3.82	\$3.82	\$3.82	\$3.82	\$3.82

Gallons Used From: To:	2018 - Data <sup>[1]</sup>		Projected Sewer Charges <sup>[4]</sup>						
	Users in Range	Total Gallons Used	\$	\$	\$	\$	\$	\$	\$
- 7,000	5,304	23,386,356	\$ 115,046	\$ 129,122	\$ 175,238	\$ 186,905	\$ 186,905	\$ 186,905	\$ 186,905
7,001 25,000	840	16,700,286	\$ 66,641	\$ 71,627	\$ 88,557	\$ 94,470	\$ 94,470	\$ 94,470	\$ 94,470
25,001 $\infty$	54	2,323,239	\$ 9,285	\$ 9,525	\$ 10,480	\$ 11,181	\$ 11,181	\$ 11,181	\$ 11,181
# of Suspected Act Service	6198	42,409,881							
Monthly Sewer Collection Charges <sup>[2]</sup>			\$ 190,972	\$ 210,379	\$ 274,549	\$ 292,994	\$ 293,141	\$ 293,287	\$ 293,434
<b>Annualized Amount (Average Month x 12)</b>		<b>508,918,573</b>	<b>\$ 2,291,659</b>	<b>\$ 2,524,548</b>	<b>\$ 3,294,584</b>	<b>\$ 3,515,932</b>	<b>\$ 3,517,690</b>	<b>\$ 3,519,449</b>	<b>\$ 3,521,208</b>

[1] Average usage was a data set of January - October 2018

[2] Total Charges are inflated 0.5% per year beginning in 2019 fiscal year to account for growth in the number of active services (0.5% is the average sewer service growth for past 3 years)

[3] Fiscal Years end June 31st. Rate increases go into affect April 1st of each year. Projected revenues are weighted 75% based on the previous years and 25% on the proposed rates

[4] All projected sewer collection revenue was increased by 7.0% for calibration of projected revenue model based on historical sewer revenue

Sewer Revenue	Fiscal Year						
	<b>2017-2018</b>	<b>2018-2019</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-2023</b>	<b>2023-2024</b>
Revenue From Residential Service Charge	\$ 939,444	\$ 939,444	\$ 1,024,608	\$ 1,025,121	\$ 1,025,633	\$ 1,026,146	\$ 1,026,659
Revenue From Commercial Service Charge	\$ 286,974	\$ 286,974	\$ 312,985	\$ 313,141	\$ 313,298	\$ 313,455	\$ 313,611
Revenue for usage <u>below</u> 7,000 gal/mo.	\$ 375,351	\$ 544,259	\$ 1,075,005	\$ 1,147,073	\$ 1,147,073	\$ 1,147,073	\$ 1,147,073
Revenue for usage 7,000-25,000 gal/mo.	\$ 601,210	\$ 571,006	\$ 767,665	\$ 819,129	\$ 819,129	\$ 819,129	\$ 819,129
Revenue for usage <u>above</u> 25,000 gal/mo.	\$ 110,122	\$ 95,753	\$ 106,793	\$ 113,952	\$ 113,952	\$ 113,952	\$ 113,952



Scenario 4

*Projected Revenues*

## Lebanon, Missouri

### Sewer Collection Revenue Projections

Scenario 5	Fiscal Year <sup>[3]</sup>						
	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Service Charge: 5/8-inch meter	\$14.76	\$19.29	\$25.21	\$25.21	\$25.21	\$25.21	\$25.21
Service Charge: >5/8-inch meter	\$26.75	\$34.96	\$45.69	\$45.69	\$45.69	\$45.69	\$45.69
Usage Rate <7,000 (per 1,000 gallons)	\$1.25	\$1.63	\$2.13	\$2.13	\$2.13	\$2.13	\$2.13
Usage Rate 7,001 - 25,000 (per 1,000 gal)	\$3.00	\$3.92	\$5.12	\$5.12	\$5.12	\$5.12	\$5.12
Usage Rate 25,001-200,000 (per 1,000 gal)	\$3.95	\$5.16	\$6.74	\$6.74	\$6.74	\$6.74	\$6.74
Usage Rate >200,001 (per 1,000 gal)	\$1.40	\$1.83	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39

Gallons Used From: To:	2018 - Data <sup>[1]</sup>		Projected Sewer Charges <sup>[4]</sup>											
	Users in Range	Total Gallons Used	\$	31,279	\$	33,656	\$	43,916	\$	53,300	\$	53,300	\$	53,300
- 7,000	5,304	23,386,356	\$	31,279	\$	33,656	\$	43,916	\$	53,300	\$	53,300	\$	53,300
7,001 25,000	840	16,700,286	\$	42,598	\$	45,858	\$	59,900	\$	72,679	\$	72,679	\$	72,679
25,001 $\infty$	54	2,323,239	\$	7,739	\$	8,332	\$	10,884	\$	13,205	\$	13,205	\$	13,205
# of Suspected Act Services	6198	42,409,881												
Monthly Sewer Service Charges			\$	95,103	\$	109,620	\$	143,329	\$	174,050	\$	174,131	\$	174,212
Monthly Sewer Usage Charges <sup>[2]</sup>			\$	81,616	\$	87,846	\$	114,699	\$	139,184	\$	139,184	\$	139,184
<b>Annualized Amount (Average Month x 12)</b>	<b>508,918,573</b>	<b>\$ 2,120,633</b>	<b>\$ 2,369,592</b>	<b>\$ 3,096,343</b>	<b>\$ 3,758,808</b>	<b>\$ 3,759,779</b>	<b>\$ 3,760,750</b>	<b>\$ 3,761,721</b>						

[1] Average usage was a data set of January - October 2018

[2] Total Charges are inflated 0.5% per year beginning in 2019 fiscal year to account for growth in the number of active services (0.5% is the average sewer service growth for past 3 years)

[3] Fiscal Years end June 31st. Rate increases go into affect April 1st of each year. Projected revenues are weighted 75% based on the previous years and 25% on the proposed rates

[4] All projected sewer collection revenue was increased by 7.0% for calibration of projected revenue model based on historical sewer revenue

Sewer Revenue	Fiscal Year						
	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Revenue From Residential Service Charge	\$ 939,444	\$ 1,227,770	\$ 1,605,368	\$ 1,606,171	\$ 1,606,974	\$ 1,607,778	\$ 1,608,582
Revenue From Commercial Service Charge	\$ 286,974	\$ 375,051	\$ 490,407	\$ 490,653	\$ 490,898	\$ 491,143	\$ 491,389
Revenue for usage <u>below</u> 7,000 gal/mo.	\$ 375,351	\$ 403,878	\$ 526,993	\$ 639,598	\$ 639,598	\$ 639,598	\$ 639,598
Revenue for usage 7,000-25,000 gal/mo.	\$ 601,210	\$ 550,298	\$ 718,796	\$ 872,148	\$ 872,148	\$ 872,148	\$ 872,148
Revenue for usage <u>above</u> 25,000 gal/mo.	\$ 110,122	\$ 99,981	\$ 130,603	\$ 158,464	\$ 158,464	\$ 158,464	\$ 158,464



Scenario 5

*Projected Revenues*

**Lebanon, Missouri**

**Sewer Collection Revenue Projections**

	<b>Fiscal Year<sup>[3]</sup></b>						
	<b>2017-2018</b>	<b>2018-2019</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-2023</b>	<b>2023-2024</b>
Service Charge: 5/8-inch meter	\$14.76	\$18.89	\$24.18	\$24.18	\$24.18	\$24.18	\$24.18
Service Charge: 1-inch meter	n/a	\$24.64	\$31.54	\$31.54	\$31.54	\$31.54	\$31.54
Service Charge: 1.5-inch meter	n/a	\$35.06	\$44.88	\$44.88	\$44.88	\$44.88	\$44.88
Service Charge: 2-inch meter	n/a	\$51.42	\$65.82	\$65.82	\$65.82	\$65.82	\$65.82
Service Charge: 3-inch meter	n/a	\$145.86	\$186.70	\$186.70	\$186.70	\$186.70	\$186.70
Service Charge: 4-inch meter	n/a	\$201.18	\$257.51	\$257.51	\$257.51	\$257.51	\$257.51
Service Charge: 6-inch meter	\$26.75	\$330.70	\$423.30	\$423.30	\$423.30	\$423.30	\$423.30
Usage Rate <7,000 (per 1,000 gallons)	\$1.25	\$1.63	\$2.13	\$2.13	\$2.13	\$2.13	\$2.13
Usage Rate 7,001 - 25,000 (per 1,000 gal)	\$3.00	\$3.92	\$5.12	\$5.12	\$5.12	\$5.12	\$5.12
Usage Rate 25,001-200,000 (per 1,000 gal)	\$3.95	\$5.16	\$6.74	\$6.74	\$6.74	\$6.74	\$6.74
Usage Rate >200,001 (per 1,000 gal)	\$1.40	\$1.83	\$2.39	\$2.39	\$2.39	\$2.39	\$2.39

<b>Gallons Used From: To:</b>	<b>2018 - Data<sup>[1]</sup></b>		<b>Projected Sewer Charges<sup>[4]</sup></b>					
	<b>Users in Range</b>	<b>Total Gallons Used</b>	\$	\$	\$	\$	\$	\$
- 7,000	5,304	23,386,356	\$ 31,279	\$ 33,656	\$ 43,916	\$ 53,300	\$ 53,300	\$ 53,300
7,001 25,000	840	16,700,286	\$ 42,598	\$ 45,858	\$ 59,900	\$ 72,679	\$ 72,679	\$ 72,679
25,001 $\infty$	54	2,323,239	\$ 7,739	\$ 8,332	\$ 10,884	\$ 13,205	\$ 13,205	\$ 13,205
# of Suspected Act Services	6198	42,409,881						
Monthly Sewer Service Charges			\$ 95,103	\$ 115,316	\$ 142,586	\$ 170,652	\$ 170,729	\$ 170,807
Monthly Sewer Usage Charges <sup>[2]</sup>			\$ 81,616	\$ 87,846	\$ 114,699	\$ 139,184	\$ 139,184	\$ 139,184
<b>Annualized Amount (Average Month x 12)</b>	<b>508,918,573</b>	<b>\$ 2,120,633</b>	<b>\$ 2,437,946</b>	<b>\$ 3,087,424</b>	<b>\$ 3,718,030</b>	<b>\$ 3,718,961</b>	<b>\$ 3,719,893</b>	<b>\$ 3,720,824</b>

[1] Average usage was a data set of January - October 2018

[2] Total Charges are inflated 0.5% per year beginning in 2019 fiscal year to account for growth in the number of active services (0.5% is the average sewer service growth for past 3 years)

[3] Fiscal Years end June 31st. Rate increases go into affect April 1st of each year. Projected revenues are weighted 75% based on the previous years and 25% on the proposed rates

[4] All projected sewer collection revenue was increased by 7.0% for calibration of projected revenue model based on historical sewer revenue

	<b>Fiscal Year</b>						
	<b>2017-2018</b>	<b>2018-2019</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-2023</b>	<b>2023-2024</b>
Revenue From Residential Service Charge	\$ 939,444	\$ 1,202,311	\$ 1,539,778	\$ 1,540,548	\$ 1,541,318	\$ 1,542,089	\$ 1,542,860
Revenue From Commercial Service Charge	\$ 286,974	\$ 3,547,750	\$ 4,543,433	\$ 4,545,705	\$ 4,547,978	\$ 4,550,252	\$ 4,552,527
Revenue for usage <u>below</u> 7,000 gal/mo.	\$ 375,351	\$ 403,878	\$ 526,993	\$ 639,598	\$ 639,598	\$ 639,598	\$ 639,598
Revenue for usage 7,000-25,000 gal/mo.	\$ 601,210	\$ 550,298	\$ 718,796	\$ 872,148	\$ 872,148	\$ 872,148	\$ 872,148
Revenue for usage <u>above</u> 25,000 gal/mo.	\$ 110,122	\$ 99,981	\$ 130,603	\$ 158,464	\$ 158,464	\$ 158,464	\$ 158,464



# Appendix E

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Water Usage and Sewer Customer Data

### Water Consumption Data

2CM (C1)			
Month	Total # of Customer	Total Usage (gallons)	Average Usage (gallons)
January	30	2,040,719	68,024
February	30	1,917,522	63,917
March	30	1,829,570	60,986
April	30	1,779,061	59,302
May	30	1,852,152	61,738
June	30	2,110,815	70,361
July	30	1,981,010	66,034
August	30	1,897,466	63,249
September	30	2,235,111	74,504
October	30	2,166,883	72,229
<b>Average</b>	<b>30</b>	<b>1,981,031</b>	<b>66,034</b>

3CM (C2)			
Month	Total # of Customer	Total Usage (gallons)	Average Usage (gallons)
January	162	4,779,839	29,324
February	162	4,879,361	30,120
March	162	4,145,332	25,588
April	162	4,747,552	29,306
May	162	5,545,872	34,024
June	162	5,812,836	35,882
July	161	6,216,626	38,613
August	161	6,243,505	38,540
September	161	6,188,126	38,436
October	163	5,861,193	35,958
<b>Average</b>	<b>162</b>	<b>5,442,024</b>	<b>33,634</b>

COL			
Month	Total # of Customers	Total Usage (gallons)	Average Usage (gallons)
January	36	224,341	6,232
February	36	129,382	3,594
March	36	152,951	4,249
April	36	345,141	9,587
May	36	1,251,060	34,752
June	38	3,321,786	87,415
July	38	2,515,344	66,193
August	38	709,794	18,679
September	38	864,916	22,761
October	38	550,246	14,480
November	36	154,768	4,299
December	36	124,500	3,458
<b>Average</b>	<b>37</b>	<b>862,019</b>	<b>23,403</b>

Commercial			
Month	Total # of Customers	Total Usage (gallons)	Average Usage (gallons)
January	699	10,853,100	15,527
February	697	10,132,716	14,538
March	695	8,212,671	11,817
April	698	9,385,154	13,446
May	704	30,360,761	43,126
June	702	11,593,657	16,515
July	705	14,274,626	20,248
August	706	15,088,493	21,372
September	593	14,130,223	23,828
October	706	13,248,924	18,766
November	705	9,334,240	13,240
December	715	8,892,811	12,437
<b>Average</b>	<b>694</b>	<b>12,958,948</b>	<b>18,738</b>

Residential			
Month	Total # of Customer	Total Usage (gallons)	Average Usage (gallons)
January	5,382	22,720,573	4,222
February	5,384	22,444,474	4,169
March	5,388	18,505,842	3,435
April	5,399	19,910,240	3,688
May	5,402	21,173,198	3,920
June	5,401	27,344,365	5,063
July	5,406	29,746,410	5,502
August	5,413	29,010,824	5,359
September	5,408	25,533,112	4,721
October	5,418	21,711,758	4,007
November	5,426	20,782,568	3,830
December	5,532	21,464,028	3,880
<b>Average</b>	<b>5,413</b>	<b>23,362,283</b>	<b>4,316</b>

Usages by Customer Class			
Category	Water	Sewer	Avg Usage Assumed
2CM	4	18	66,034
3CM	0	4	66,034
COL	33	32	23,403
COM	637	840	18,738
RES	5297	5303	4,316
<b>Totals</b>	<b>5,971</b>	<b>6,197</b>	<b>178,526</b>

Notes: 2CM and 3CM indicate sewer customers with 2 and 3 service connections, respectively. However, these customers are unlikely to have 2 or 3 water service connections. There are no known water customers with 3 service connections. To estimate the 2CM and 3CM water usages for sewer billing, usages from CI and C2 customers was assumed.

9/12/2018 11:25 AM  
PRINT SEQUENCE: ACCOUNT NUMBER  
ZONE: < All Zones >

## SERVICES REPORT

PAGE: 1  
INCLUDE IDLE ADDRESSES: NO

## RECAP

SERVICE	TABLE	STEP	# SERVICES
100 - WATER	22I		3
100 - WATER	2CM		4
100 - WATER	2DW		1
100 - WATER	2IN		120
100 - WATER	CIR		16
100 - WATER	CM1		54
100 - WATER	COL		33
100 - WATER	COM		637
100 - WATER	IR2		1
100 - WATER	IRR		5
100 - WATER	NC		6
100 - WATER	RES		5,297
100 - WATER	T22		4
100 - WATER	T2I		14
100 - WATER	T3C		1
100 - WATER	TCM		24
SERVICE CODE TOTAL			6,220
300 - SEWER	2CM	1	18
300 - SEWER	3CM	1	4
300 - SEWER	COL	1	32
300 - SEWER	COM	1	840
300 - SEWER	RES	1	5,303
SERVICE CODE TOTAL			6,197
=====			
RECAP TOTALS			12,417

## SELECTION CRITERIA

## ACCOUNT SELECTION

ZONE	< All Zones >
CUSTOMER CLASS	All
ACCOUNT STATUS	Active

## PRINT OPTIONS

SEQUENCE	Account Number
IDLE ADDRESS	NO
RECAP ONLY	YES
PRINT LAST BILL	NO
ACCOUNT OPTION	ACCOUNT NAME ONLY

## SERVICE SELECTION

INCLUDE ACCOUNTS	THAT MEET ALL CRITERIA					
SERVICES	STATUS	NO SERVICE	=====	TABLES	=====	PRINT
100 - WATER	ON	NO	ALL			YES
300 - SEWER	ON	NO	ALL			YES

\*\* END OF REPORT \*\*

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SERVICE CATEGORY: WTR-WATER

## C O N S U M P T I O N S U M M A R Y

PAGE: 1

DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

YEAR: 2018

## \*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
RANGE: 0 - 999999999999								
SRV-TABLE: 100-								
JANUARY	1	475	0.0000	1	475	475	0.0000	0.0000
FEBRUARY	1	421	0.0000	1	421	421	0.0000	0.0000
MARCH	1	286	0.0000	1	286	286	0.0000	0.0000
APRIL	1	1,238	0.0000	1	1,238	1,238	0.0000	0.0000
MAY	1	1,391	0.0000	1	1,391	1,391	0.0000	0.0000
JUNE	1	1,546	0.0000	1	1,546	1,546	0.0000	0.0000
TOTALS:	1	5,357	0.0000	6	5,357	893	0.0000	0.0000
SRV-TABLE: 100- 2"R								
JANUARY	1	18,817	0.0000	1	18,817	18,817	0.0000	0.0000
FEBRUARY	1	13,941	0.0000	1	13,941	13,941	0.0000	0.0000
MARCH	1	3,104	0.0000	1	3,104	3,104	0.0000	0.0000
APRIL	1	6,849	0.0000	1	6,849	6,849	0.0000	0.0000
MAY	1	8,996	0.0000	1	8,996	8,996	0.0000	0.0000
JUNE	1	12,891	0.0000	1	12,891	12,891	0.0000	0.0000
JULY	1	27,556	0.0000	1	27,556	27,556	0.0000	0.0000
AUGUST	1	40,906	0.0000	1	40,906	40,906	0.0000	0.0000
SEPTEMBER	1	11,391	0.0000	1	11,391	11,391	0.0000	0.0000
OCTOBER	1	10,162	0.0000	1	10,162	10,162	0.0000	0.0000
NOVEMBER	1	8,710	0.0000	1	8,710	8,710	0.0000	0.0000
TOTALS:	1	163,323	0.0000	11	163,323	14,848	0.0000	0.0000
SRV-TABLE: 100- 2CM								
JANUARY	1	1,881	0.0000	1	1,881	1,881	0.0000	0.0000
FEBRUARY	1	3,316	0.0000	1	3,316	3,316	0.0000	0.0000
MARCH	1	2,548	0.0000	1	2,548	2,548	0.0000	0.0000
APRIL	1	1,737	0.0000	1	1,737	1,737	0.0000	0.0000
MAY	1	2,545	0.0000	1	2,545	2,545	0.0000	0.0000
JUNE	1	4,629	0.0000	1	4,629	4,629	0.0000	0.0000
JULY	1	2,210	0.0000	1	2,210	2,210	0.0000	0.0000
AUGUST	1	8,663	0.0000	1	8,663	8,663	0.0000	0.0000
SEPTEMBER	1	38,820	0.0000	1	38,820	38,820	0.0000	0.0000
OCTOBER	1	6,281	0.0000	1	6,281	6,281	0.0000	0.0000
NOVEMBER	1	5,811	0.0000	1	5,811	5,811	0.0000	0.0000
TOTALS:	1	78,441	0.0000	11	78,441	7,131	0.0000	0.0000
SRV-TABLE: 100- 2DW								
JANUARY	1	24,600	0.0000	1	24,600	24,600	0.0000	0.0000
FEBRUARY	1	22,100	0.0000	1	22,100	22,100	0.0000	0.0000
MARCH	1	19,200	0.0000	1	19,200	19,200	0.0000	0.0000
APRIL	1	57,626	0.0000	1	57,626	57,626	0.0000	0.0000
MAY	1	63,625	0.0000	1	63,625	63,625	0.0000	0.0000
JUNE	1	66,036	0.0000	1	66,036	66,036	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

## C O N S U M P T I O N S U M M A R Y

PAGE: 2

DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

YEAR: 2018

## \*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
JULY	1	90,189	0.0000	1	90,189	90,189	0.0000	0.0000
AUGUST	1	106,511	0.0000	1	106,511	106,511	0.0000	0.0000
SEPTEMBER	1	122,546	0.0000	1	122,546	122,546	0.0000	0.0000
OCTOBER	1	68,785	0.0000	1	68,785	68,785	0.0000	0.0000
NOVEMBER	1	57,342	0.0000	1	57,342	57,342	0.0000	0.0000
TOTALS:	1	698,560	0.0000	11	698,560	63,505	0.0000	0.0000
SRV-TABLE: 100- 2IN								
JANUARY	127	9,600,964	0.0000	127	75,598	75,598	0.0000	0.0000
FEBRUARY	127	8,943,261	0.0000	127	70,419	70,419	0.0000	0.0000
MARCH	127	7,154,233	0.0000	127	56,333	56,333	0.0000	0.0000
APRIL	127	8,077,127	0.0000	127	63,599	63,599	0.0000	0.0000
MAY	128	9,261,024	0.0000	129	72,352	71,791	0.0000	0.0000
JUNE	130	9,410,153	0.0000	132	72,386	71,289	0.0000	0.0000
JULY	128	11,400,060	0.0000	129	89,063	88,373	0.0000	0.0000
AUGUST	128	10,698,742	0.0000	130	83,584	82,298	0.0000	0.0000
SEPTEMBER	129	10,511,103	0.0000	130	81,481	80,855	0.0000	0.0000
OCTOBER	131	10,239,470	0.0000	131	78,164	78,164	0.0000	0.0000
NOVEMBER	105	8,017,126	0.0000	106	76,354	75,633	0.0000	0.0000
TOTALS:	132	103,313,263	0.0000	1,395	782,676	74,060	0.0000	0.0000
SRV-TABLE: 100- CIR								
JANUARY	21	292,372	0.0000	21	13,922	13,922	0.0000	0.0000
FEBRUARY	20	93,392	0.0000	20	4,670	4,670	0.0000	0.0000
MARCH	20	61,639	0.0000	20	3,082	3,082	0.0000	0.0000
APRIL	20	167,135	0.0000	20	8,357	8,357	0.0000	0.0000
MAY	20	456,622	0.0000	20	22,831	22,831	0.0000	0.0000
JUNE	20	1,026,483	0.0000	20	51,324	51,324	0.0000	0.0000
JULY	22	1,903,346	0.0000	22	86,516	86,516	0.0000	0.0000
AUGUST	22	2,361,840	0.0000	22	107,356	107,356	0.0000	0.0000
SEPTEMBER	22	1,656,416	0.0000	22	75,292	75,292	0.0000	0.0000
OCTOBER	22	985,274	0.0000	22	44,785	44,785	0.0000	0.0000
NOVEMBER	17	312,680	0.0000	17	18,393	18,393	0.0000	0.0000
TOTALS:	22	9,317,199	0.0000	226	423,509	41,227	0.0000	0.0000
SRV-TABLE: 100- CM1								
JANUARY	53	1,538,885	0.0000	53	29,036	29,036	0.0000	0.0000
FEBRUARY	55	1,490,661	0.0000	55	27,103	27,103	0.0000	0.0000
MARCH	52	1,434,763	0.0000	52	27,592	27,592	0.0000	0.0000
APRIL	52	1,758,433	0.0000	52	33,816	33,816	0.0000	0.0000
MAY	52	1,814,110	0.0000	52	34,887	34,887	0.0000	0.0000
JUNE	52	1,951,639	0.0000	52	37,532	37,532	0.0000	0.0000
JULY	58	2,014,963	0.0000	59	34,741	34,152	0.0000	0.0000
AUGUST	58	2,103,533	0.0000	58	36,268	36,268	0.0000	0.0000
SEPTEMBER	58	1,770,032	0.0000	58	30,518	30,518	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

## C O N S U M P T I O N S U M M A R Y

PAGE: 3

DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

YEAR: 2018

## \*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
OCTOBER	58	2,010,395	0.0000	59	34,662	34,074	0.0000	0.0000
NOVEMBER	54	1,793,797	0.0000	54	33,218	33,218	0.0000	0.0000
TOTALS:	58	19,681,211	0.0000	604	339,331	32,585	0.0000	0.0000
SRV-TABLE: 100- COL								
JANUARY	35	224,341	0.0000	35	6,410	6,410	0.0000	0.0000
FEBRUARY	35	123,722	0.0000	35	3,535	3,535	0.0000	0.0000
MARCH	35	150,321	0.0000	35	4,295	4,295	0.0000	0.0000
APRIL	35	343,691	0.0000	35	9,820	9,820	0.0000	0.0000
MAY	37	21,249,680	0.0000	39	574,316	544,864	0.0000	0.0000
JUNE	37	3,310,353	0.0000	37	89,469	89,469	0.0000	0.0000
JULY	38	2,514,366	0.0000	38	66,168	66,168	0.0000	0.0000
AUGUST	38	702,421	0.0000	38	18,485	18,485	0.0000	0.0000
SEPTEMBER	38	646,410	0.0000	38	17,011	17,011	0.0000	0.0000
OCTOBER	38	521,689	0.0000	38	13,729	13,729	0.0000	0.0000
TOTALS:	41	29,786,994	0.0000	368	726,512	80,943	0.0000	0.0000
SRV-TABLE: 100- COM								
JANUARY	660	5,035,372	0.0000	664	7,629	7,583	0.0000	0.0000
FEBRUARY	657	4,799,337	0.0000	662	7,305	7,250	0.0000	0.0000
MARCH	656	4,118,299	0.0000	657	6,278	6,268	0.0000	0.0000
APRIL	659	4,458,784	0.0000	661	6,766	6,746	0.0000	0.0000
MAY	655	4,352,365	0.0000	660	6,645	6,594	0.0000	0.0000
JUNE	658	5,053,825	0.0000	665	7,681	7,600	0.0000	0.0000
JULY	657	5,465,148	0.0000	660	8,318	8,281	0.0000	0.0000
AUGUST	655	5,412,669	0.0000	658	8,264	8,226	0.0000	0.0000
SEPTEMBER	656	5,531,870	0.0000	659	8,433	8,394	0.0000	0.0000
OCTOBER	657	4,945,533	0.0000	662	7,527	7,471	0.0000	0.0000
NOVEMBER	551	3,792,321	0.0000	553	6,883	6,858	0.0000	0.0000
TOTALS:	671	52,965,523	0.0000	7,161	78,935	7,396	0.0000	0.0000
SRV-TABLE: 100- HOS								
JANUARY	1	5,900	0.0000	1	5,900	5,900	0.0000	0.0000
FEBRUARY	1	28,800	0.0000	1	28,800	28,800	0.0000	0.0000
MARCH	1	28,000	0.0000	1	28,000	28,000	0.0000	0.0000
APRIL	1	43,700	0.0000	1	43,700	43,700	0.0000	0.0000
MAY	1	244,400	0.0000	1	244,400	244,400	0.0000	0.0000
JUNE	1	461,600	0.0000	1	461,600	461,600	0.0000	0.0000
JULY	1	686,700	0.0000	1	686,700	686,700	0.0000	0.0000
AUGUST	1	451,800	0.0000	1	451,800	451,800	0.0000	0.0000
SEPTEMBER	1	525,200	0.0000	1	525,200	525,200	0.0000	0.0000
OCTOBER	1	318,400	0.0000	1	318,400	318,400	0.0000	0.0000
NOVEMBER	1	35,200	0.0000	1	35,200	35,200	0.0000	0.0000
TOTALS:	1	2,829,700	0.0000	11	2,829,700	257,245	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

YEAR: 2018

## C O N S U M P T I O N S U M M A R Y

PAGE: 4

DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

\*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
<b>SRV-TABLE: 100- IR2</b>								
JANUARY	3	0	0.0000	3	0	0	0.0000	0.0000
FEBRUARY	3	0	0.0000	3	0	0	0.0000	0.0000
MARCH	3	0	0.0000	3	0	0	0.0000	0.0000
APRIL	3	49,341	0.0000	3	16,447	16,447	0.0000	0.0000
MAY	3	109,976	0.0000	3	36,659	36,659	0.0000	0.0000
JUNE	3	256,123	0.0000	3	85,374	85,374	0.0000	0.0000
JULY	3	334,440	0.0000	3	111,480	111,480	0.0000	0.0000
AUGUST	3	312,699	0.0000	3	104,233	104,233	0.0000	0.0000
SEPTEMBER	3	272,977	0.0000	3	90,992	90,992	0.0000	0.0000
OCTOBER	3	181,621	0.0000	3	60,540	60,540	0.0000	0.0000
NOVEMBER	2	1,739	0.0000	2	870	870	0.0000	0.0000
TOTALS:	3	1,518,916	0.0000	32	506,305	47,466	0.0000	0.0000
<b>SRV-TABLE: 100- IRR</b>								
JANUARY	3	0	0.0000	3	0	0	0.0000	0.0000
FEBRUARY	3	0	0.0000	3	0	0	0.0000	0.0000
MARCH	3	0	0.0000	3	0	0	0.0000	0.0000
APRIL	5	22,114	0.0000	5	4,423	4,423	0.0000	0.0000
MAY	5	81,059	0.0000	5	16,212	16,212	0.0000	0.0000
JUNE	5	185,079	0.0000	5	37,016	37,016	0.0000	0.0000
JULY	6	202,270	0.0000	6	33,712	33,712	0.0000	0.0000
AUGUST	6	364,540	0.0000	6	60,757	60,757	0.0000	0.0000
SEPTEMBER	6	187,865	0.0000	6	31,311	31,311	0.0000	0.0000
OCTOBER	7	216,366	0.0000	7	30,909	30,909	0.0000	0.0000
NOVEMBER	6	10,255	0.0000	6	1,709	1,709	0.0000	0.0000
TOTALS:	7	1,269,548	0.0000	55	181,364	23,083	0.0000	0.0000
<b>SRV-TABLE: 100- NC</b>								
JANUARY	5	125,240	0.0000	5	25,048	25,048	0.0000	0.0000
FEBRUARY	5	149,250	0.0000	6	29,850	24,875	0.0000	0.0000
MARCH	5	165,590	0.0000	5	33,118	33,118	0.0000	0.0000
APRIL	6	130,630	0.0000	6	21,772	21,772	0.0000	0.0000
MAY	6	139,010	0.0000	7	23,168	19,859	0.0000	0.0000
JUNE	6	9,609,860	0.0000	6	1,601,643	1,601,643	0.0000	0.0000
JULY	6	254,720	0.0000	6	42,453	42,453	0.0000	0.0000
AUGUST	6	169,670	0.0000	6	28,278	28,278	0.0000	0.0000
SEPTEMBER	6	150,170	0.0000	6	25,028	25,028	0.0000	0.0000
OCTOBER	6	128,000	0.0000	6	21,333	21,333	0.0000	0.0000
NOVEMBER	2	15,190	0.0000	2	7,595	7,595	0.0000	0.0000
TOTALS:	6	11,037,330	0.0000	61	1,839,555	180,940	0.0000	0.0000
<b>SRV-TABLE: 100- RES</b>								
JANUARY	5,372	22,655,341	0.0000	5,453	4,217	4,155	0.0000	0.0000
FEBRUARY	5,374	22,378,135	0.0000	5,469	4,164	4,092	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

YEAR: 2018

## C O N S U M P T I O N S U M M A R Y

PAGE: 5

DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

## \*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
MARCH	5,378	18,459,064	0.0000	5,483	3,432	3,367	0.0000	0.0000
APRIL	5,387	19,834,291	0.0000	5,478	3,682	3,621	0.0000	0.0000
MAY	5,390	21,041,877	0.0000	5,471	3,904	3,846	0.0000	0.0000
JUNE	5,389	27,054,196	0.0000	5,498	5,020	4,921	0.0000	0.0000
JULY	5,393	29,385,549	0.0000	5,495	5,449	5,348	0.0000	0.0000
AUGUST	5,400	28,496,087	0.0000	5,518	5,277	5,164	0.0000	0.0000
SEPTEMBER	5,396	25,255,638	0.0000	5,512	4,680	4,582	0.0000	0.0000
OCTOBER	5,405	21,439,202	0.0000	5,512	3,967	3,890	0.0000	0.0000
NOVEMBER	3,855	14,339,189	0.0000	3,932	3,720	3,647	0.0000	0.0000
TOTALS:	5,447	250,338,569	0.0000	58,821	45,959	4,256	0.0000	0.0000
SRV-TABLE: 100- T2I								
JANUARY	16	9,382,979	0.0000	16	586,436	586,436	0.0000	0.0000
FEBRUARY	16	13,734,773	0.0000	16	858,423	858,423	0.0000	0.0000
MARCH	16	11,636,839	0.0000	16	727,302	727,302	0.0000	0.0000
APRIL	16	12,524,442	0.0000	16	782,778	782,778	0.0000	0.0000
MAY	16	10,681,839	0.0000	16	667,615	667,615	0.0000	0.0000
JUNE	16	13,094,426	0.0000	16	818,402	818,402	0.0000	0.0000
JULY	16	16,092,630	0.0000	16	1,005,789	1,005,789	0.0000	0.0000
AUGUST	16	13,811,382	0.0000	16	863,211	863,211	0.0000	0.0000
SEPTEMBER	16	11,055,395	0.0000	16	690,962	690,962	0.0000	0.0000
OCTOBER	16	15,699,095	0.0000	16	981,193	981,193	0.0000	0.0000
NOVEMBER	17	10,612,295	0.0000	18	624,253	589,572	0.0000	0.0000
TOTALS:	17	138,326,095	0.0000	178	8,136,829	777,113	0.0000	0.0000
SRV-TABLE: 100- T3C								
JANUARY	3	23,763	0.0000	3	7,921	7,921	0.0000	0.0000
FEBRUARY	3	36,745	0.0000	3	12,248	12,248	0.0000	0.0000
MARCH	3	34,147	0.0000	3	11,382	11,382	0.0000	0.0000
APRIL	3	29,793	0.0000	3	9,931	9,931	0.0000	0.0000
MAY	3	265,800	0.0000	3	88,600	88,600	0.0000	0.0000
JUNE	3	402,205	0.0000	3	134,068	134,068	0.0000	0.0000
JULY	3	436,242	0.0000	3	145,414	145,414	0.0000	0.0000
AUGUST	3	595,506	0.0000	3	198,502	198,502	0.0000	0.0000
SEPTEMBER	3	1,739,899	0.0000	3	579,966	579,966	0.0000	0.0000
OCTOBER	3	479,251	0.0000	3	159,750	159,750	0.0000	0.0000
NOVEMBER	3	390,830	0.0000	3	130,277	130,277	0.0000	0.0000
TOTALS:	3	4,434,181	0.0000	33	1,478,060	134,369	0.0000	0.0000
SRV-TABLE: 100- TCM								
JANUARY	25	1,097,927	0.0000	25	43,917	43,917	0.0000	0.0000
FEBRUARY	25	525,297	0.0000	25	21,012	21,012	0.0000	0.0000
MARCH	25	909,287	0.0000	25	36,371	36,371	0.0000	0.0000
APRIL	25	890,038	0.0000	25	35,602	35,602	0.0000	0.0000
MAY	25	1,243,302	0.0000	25	49,732	49,732	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

## C O N S U M P T I O N S U M M A R Y

YEAR: 2018

PAGE: 6  
DATE RANGE: 1/2018 THRU 12/2018  
CONSUMPTION TYPE: TOTAL

\*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
JUNE	25	1,293,267	0.0000	25	51,731	51,731	0.0000	0.0000
JULY	25	1,221,124	0.0000	25	48,845	48,845	0.0000	0.0000
AUGUST	25	1,301,788	0.0000	25	52,072	52,072	0.0000	0.0000
SEPTEMBER	25	1,534,044	0.0000	25	61,362	61,362	0.0000	0.0000
OCTOBER	25	1,076,682	0.0000	25	43,067	43,067	0.0000	0.0000
NOVEMBER	25	1,137,378	0.0000	25	45,495	45,495	0.0000	0.0000
TOTALS:	25	12,230,134	0.0000	275	489,205	44,473	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

## C O N S U M P T I O N S U M M A R Y

PAGE: 7

DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

YEAR: 2018

## \*\* CLASS TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
RANGE: 0 - 999999999999								
CUSTOMER CLASS: C2								
JANUARY	162	4,779,839	0.0000	163	29,505	29,324	0.0000	0.0000
FEBRUARY	162	4,879,361	0.0000	162	30,120	30,120	0.0000	0.0000
MARCH	162	4,145,332	0.0000	162	25,588	25,588	0.0000	0.0000
APRIL	162	4,747,552	0.0000	162	29,306	29,306	0.0000	0.0000
MAY	162	5,545,872	0.0000	163	34,234	34,024	0.0000	0.0000
JUNE	162	5,812,836	0.0000	162	35,882	35,882	0.0000	0.0000
JULY	161	6,216,626	0.0000	161	38,613	38,613	0.0000	0.0000
AUGUST	161	6,243,505	0.0000	162	38,780	38,540	0.0000	0.0000
SEPTEMBER	161	6,188,126	0.0000	161	38,436	38,436	0.0000	0.0000
OCTOBER	163	5,861,193	0.0000	163	35,958	35,958	0.0000	0.0000
NOVEMBER	141	5,064,281	0.0000	141	35,917	35,917	0.0000	0.0000
TOTALS:	164	59,484,523	0.0000	1,762	362,711	33,760	0.0000	0.0000
CUSTOMER CLASS: CI								
JANUARY	30	2,040,719	0.0000	30	68,024	68,024	0.0000	0.0000
FEBRUARY	30	1,917,522	0.0000	30	63,917	63,917	0.0000	0.0000
MARCH	30	1,829,570	0.0000	30	60,986	60,986	0.0000	0.0000
APRIL	30	1,779,061	0.0000	30	59,302	59,302	0.0000	0.0000
MAY	30	1,852,152	0.0000	30	61,738	61,738	0.0000	0.0000
JUNE	30	2,110,815	0.0000	30	70,361	70,361	0.0000	0.0000
JULY	30	1,981,010	0.0000	30	66,034	66,034	0.0000	0.0000
AUGUST	30	1,897,466	0.0000	30	63,249	63,249	0.0000	0.0000
SEPTEMBER	30	2,235,111	0.0000	30	74,504	74,504	0.0000	0.0000
OCTOBER	30	2,166,883	0.0000	30	72,229	72,229	0.0000	0.0000
NOVEMBER	25	1,406,082	0.0000	26	56,243	54,080	0.0000	0.0000
TOTALS:	30	21,216,391	0.0000	326	707,213	65,081	0.0000	0.0000
CUSTOMER CLASS: COL								
JANUARY	36	224,341	0.0000	36	6,232	6,232	0.0000	0.0000
FEBRUARY	36	129,382	0.0000	36	3,594	3,594	0.0000	0.0000
MARCH	36	152,951	0.0000	36	4,249	4,249	0.0000	0.0000
APRIL	36	345,141	0.0000	36	9,587	9,587	0.0000	0.0000
MAY	36	1,251,060	0.0000	36	34,752	34,752	0.0000	0.0000
JUNE	38	3,321,786	0.0000	38	87,415	87,415	0.0000	0.0000
JULY	38	2,515,344	0.0000	38	66,193	66,193	0.0000	0.0000
AUGUST	38	709,794	0.0000	38	18,679	18,679	0.0000	0.0000
SEPTEMBER	38	864,916	0.0000	38	22,761	22,761	0.0000	0.0000
OCTOBER	38	550,246	0.0000	38	14,480	14,480	0.0000	0.0000
TOTALS:	39	10,064,961	0.0000	370	258,076	27,203	0.0000	0.0000
CUSTOMER CLASS: COM								
JANUARY	699	10,853,100	0.0000	702	15,527	15,460	0.0000	0.0000
FEBRUARY	697	10,132,716	0.0000	702	14,538	14,434	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

## C O N S U M P T I O N S U M M A R Y

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DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

YEAR: 2018

## \*\* CLASS TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
MARCH	693	8,212,671	0.0000	694	11,851	11,834	0.0000	0.0000
APRIL	696	9,385,154	0.0000	698	13,484	13,446	0.0000	0.0000
MAY	695	30,360,761	0.0000	702	43,685	43,249	0.0000	0.0000
JUNE	698	11,593,657	0.0000	707	16,610	16,398	0.0000	0.0000
JULY	704	14,274,626	0.0000	709	20,276	20,133	0.0000	0.0000
AUGUST	702	15,088,493	0.0000	706	21,494	21,372	0.0000	0.0000
SEPTEMBER	705	14,130,223	0.0000	709	20,043	19,930	0.0000	0.0000
OCTOBER	706	13,248,924	0.0000	712	18,766	18,608	0.0000	0.0000
NOVEMBER	593	9,550,267	0.0000	596	16,105	16,024	0.0000	0.0000
TOTALS:	723	146,830,592	0.0000	7,637	203,085	19,226	0.0000	0.0000
CUSTOMER CLASS: I1								
JANUARY	13	2,085,045	0.0000	13	160,388	160,388	0.0000	0.0000
FEBRUARY	13	1,540,446	0.0000	13	118,496	118,496	0.0000	0.0000
MARCH	13	1,660,364	0.0000	13	127,720	127,720	0.0000	0.0000
APRIL	13	1,879,191	0.0000	13	144,553	144,553	0.0000	0.0000
MAY	13	2,655,568	0.0000	13	204,274	204,274	0.0000	0.0000
JUNE	13	3,100,112	0.0000	13	238,470	238,470	0.0000	0.0000
JULY	13	4,648,467	0.0000	13	357,574	357,574	0.0000	0.0000
AUGUST	13	4,005,105	0.0000	13	308,085	308,085	0.0000	0.0000
SEPTEMBER	13	3,733,208	0.0000	13	287,170	287,170	0.0000	0.0000
OCTOBER	13	2,963,452	0.0000	13	227,958	227,958	0.0000	0.0000
NOVEMBER	13	2,404,222	0.0000	13	184,940	184,940	0.0000	0.0000
TOTALS:	13	30,675,180	0.0000	143	2,359,629	214,512	0.0000	0.0000
CUSTOMER CLASS: I2								
JANUARY	1	7,200,000	0.0000	1	7,200,000	7,200,000	0.0000	0.0000
FEBRUARY	1	11,150,000	0.0000	1	11,150,000	11,150,000	0.0000	0.0000
MARCH	1	9,505,000	0.0000	1	9,505,000	9,505,000	0.0000	0.0000
APRIL	1	10,220,000	0.0000	1	10,220,000	10,220,000	0.0000	0.0000
MAY	1	8,040,000	0.0000	1	8,040,000	8,040,000	0.0000	0.0000
JUNE	1	10,300,880	0.0000	1	10,300,880	10,300,880	0.0000	0.0000
JULY	1	12,394,310	0.0000	1	12,394,310	12,394,310	0.0000	0.0000
AUGUST	1	9,813,900	0.0000	1	9,813,900	9,813,900	0.0000	0.0000
SEPTEMBER	1	8,174,910	0.0000	1	8,174,910	8,174,910	0.0000	0.0000
OCTOBER	1	11,695,750	0.0000	1	11,695,750	11,695,750	0.0000	0.0000
NOVEMBER	1	7,682,910	0.0000	1	7,682,910	7,682,910	0.0000	0.0000
TOTALS:	1	106,177,660	0.0000	11	106,177,660	9,652,515	0.0000	0.0000
CUSTOMER CLASS: RES								
JANUARY	5,382	22,720,573	0.0000	5,463	4,222	4,159	0.0000	0.0000
FEBRUARY	5,384	22,444,474	0.0000	5,479	4,169	4,096	0.0000	0.0000
MARCH	5,388	18,505,842	0.0000	5,493	3,435	3,369	0.0000	0.0000
APRIL	5,399	19,910,240	0.0000	5,490	3,688	3,627	0.0000	0.0000
MAY	5,402	21,173,198	0.0000	5,483	3,920	3,862	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

YEAR: 2018

## C O N S U M P T I O N S U M M A R Y

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DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

## \*\* CLASS TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
JUNE	5,401	27,344,365	0.0000	5,510	5,063	4,963	0.0000	0.0000
JULY	5,406	29,746,410	0.0000	5,508	5,502	5,401	0.0000	0.0000
AUGUST	5,413	29,010,824	0.0000	5,531	5,359	5,245	0.0000	0.0000
SEPTEMBER	5,408	25,533,112	0.0000	5,524	4,721	4,622	0.0000	0.0000
OCTOBER	5,418	21,711,758	0.0000	5,525	4,007	3,930	0.0000	0.0000
NOVEMBER	3,866	14,406,911	0.0000	3,943	3,727	3,654	0.0000	0.0000
TOTALS:	5,461	252,507,707	0.0000	58,949	46,238	4,283	0.0000	0.0000
CUSTOMER CLASS: SO								
JANUARY	5	125,240	0.0000	5	25,048	25,048	0.0000	0.0000
FEBRUARY	5	149,250	0.0000	6	29,850	24,875	0.0000	0.0000
MARCH	5	165,590	0.0000	5	33,118	33,118	0.0000	0.0000
APRIL	6	130,630	0.0000	6	21,772	21,772	0.0000	0.0000
MAY	6	139,010	0.0000	7	23,168	19,859	0.0000	0.0000
JUNE	6	9,609,860	0.0000	6	1,601,643	1,601,643	0.0000	0.0000
JULY	6	254,720	0.0000	6	42,453	42,453	0.0000	0.0000
AUGUST	6	169,670	0.0000	6	28,278	28,278	0.0000	0.0000
SEPTEMBER	6	150,170	0.0000	6	25,028	25,028	0.0000	0.0000
OCTOBER	6	128,000	0.0000	6	21,333	21,333	0.0000	0.0000
NOVEMBER	2	15,190	0.0000	2	7,595	7,595	0.0000	0.0000
TOTALS:	6	11,037,330	0.0000	61	1,839,555	180,940	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

C O N S U M P T I O N S U M M A R Y  
Y E A R T O T A L S

PAGE: 10  
DATE RANGE: 1/2018 THRU 12/2018  
CONSUMPTION TYPE: TOTAL

TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
YEAR: 2018 RANGE: 0 - 999999999999	6,437	637,994,344	0.0000	69,259	99,114	9,212	0.0000 0.0000
GRAND TOTALS:	6,437	637,994,344	0.0000	69,259	99,114	9,212	0.0000 0.0000

## SELECTION CRITERIA

## REPORT SELECTION

SELECTION BY: < All Zones >  
CUSTOMER CLASS: All  
SERVICE CATEGORY: WTR - WATER

## COMMENTS:

ALL COMMENTS REQUIRED: NO

VALUE

COMMENT CODES: NONE SELECTED

## ANALYSIS OPTIONS

CONSUMPTION PERIOD(S) FROM: 01/2018 THROUGH 12/2018  
CONSUMPTION TEST BASED ON: TOTAL  
CONSUMPTION TYPE TO USE: TOTAL (METER) CONSUMPTION  
PRINT MONTHLY TOTALS: YES  
COMBINE YEAR TOTALS: NO  
PRINT ACCOUNT DETAIL: NO

## CONSUMPTION RANGES

- 999999999999

\*\* END OF REPORT \*\*

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SERVICE CATEGORY: WTR-WATER

YEAR: 2016 - 2018

## C O N S U M P T I O N S U M M A R Y

PAGE: 1

DATE RANGE: 1/2016 THRU 12/2018

CONSUMPTION TYPE: TOTAL

## \*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
<hr/>								
RANGE: 0 - 9999999999999								
100-	5	3,206,349	0.0000	75	641,270	42,751	0.0000	0.0000
100- 2"R	1	347,139	0.0000	35	347,139	9,918	0.0000	0.0000
100- 22I	1	0	0.0000	1	0	0	0.0000	0.0000
100- 2CM	1	147,457	0.0000	34	147,457	4,337	0.0000	0.0000
100- 2DW	1	2,668,160	0.0000	35	2,668,160	76,233	0.0000	0.0000
100- 2IN	133	300,559,054	0.0000	4,393	2,259,843	68,418	0.0000	0.0000
100- CIR	22	20,251,212	0.0000	659	920,510	30,730	0.0000	0.0000
100- CM1	58	58,798,451	0.0000	1,856	1,013,766	31,680	0.0000	0.0000
100- COL	42	40,343,938	0.0000	1,193	960,570	33,817	0.0000	0.0000
100- COM	699	165,303,402	0.0000	23,114	236,486	7,152	0.0000	0.0000
100- HOS	1	8,051,900	0.0000	35	8,051,900	230,054	0.0000	0.0000
100- IR2	3	5,352,864	0.0000	93	1,784,288	57,558	0.0000	0.0000
100- IRR	9	3,583,953	0.0000	159	398,217	22,541	0.0000	0.0000
100- NC	6	14,852,266	0.0000	165	2,475,378	90,014	0.0000	0.0000
100- RES	5,513	771,309,003	0.0000	189,938	139,907	4,061	0.0000	0.0000
100- T2I	17	444,228,439	0.0000	543	26,131,085	818,100	0.0000	0.0000
100- T3C	3	5,452,329	0.0000	105	1,817,443	51,927	0.0000	0.0000
100- TCM	25	42,590,333	0.0000	875	1,703,613	48,675	0.0000	0.0000
		1,887,046,249						

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SERVICE CATEGORY: WTR-WATER

## C O N S U M P T I O N S U M M A R Y

PAGE: 2  
DATE RANGE: 1/2016 THRU 12/2018  
CONSUMPTION TYPE: TOTAL

YEAR: 2016 - 2018

## \*\* CLASS TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
RANGE: 0 - 999999999999								
C2	165	181,892,614	0.0000	5,658	1,102,379	32,148	0.0000	0.0000
CI	31	65,091,492	0.0000	1,030	2,099,726	63,196	0.0000	0.0000
COL	40	20,700,599	0.0000	1,218	517,515	16,996	0.0000	0.0000
COM	755	389,464,630	0.0000	24,478	515,847	15,911	0.0000	0.0000
I1	13	93,794,590	0.0000	436	7,214,968	215,125	0.0000	0.0000
I2	1	344,382,660	0.0000	35	344,382,660	9,839,505	0.0000	0.0000
RES	5,529	776,867,398	0.0000	190,288	140,508	4,083	0.0000	0.0000
SO	6	14,852,266	0.0000	165	2,475,378	90,014	0.0000	0.0000
		1,887,046,249						

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SERVICE CATEGORY: WTR-WATER

C O N S U M P T I O N S U M M A R Y  
Y E A R T O T A L S

PAGE: 3  
DATE RANGE: 1/2016 THRU 12/2018  
CONSUMPTION TYPE: TOTAL

TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
YEAR: 2016- 2018 RANGE: 0 - 999999999999	6,540	1,887,046,249	0.0000	223,308	288,539	8,450	0.0000 0.0000
GRAND TOTALS:	6,540	1,887,046,249	0.0000	223,308	288,539	8,450	0.0000 0.0000

## SELECTION CRITERIA

## REPORT SELECTION

SELECTION BY: < All Zones >  
CUSTOMER CLASS: All  
SERVICE CATEGORY: WTR - WATER

## COMMENTS:

ALL COMMENTS REQUIRED: NO

VALUE

COMMENT CODES: NONE SELECTED

## ANALYSIS OPTIONS

CONSUMPTION PERIOD(S) FROM: 01/2016 THROUGH 12/2018  
CONSUMPTION TEST BASED ON: TOTAL  
CONSUMPTION TYPE TO USE: TOTAL (METER) CONSUMPTION  
PRINT MONTHLY TOTALS: NO  
COMBINE YEAR TOTALS: YES  
PRINT ACCOUNT DETAIL: NO

## CONSUMPTION RANGES

- 99999999999

\*\* END OF REPORT \*\*

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SERVICE CATEGORY: WTR-WATER

## C O N S U M P T I O N S U M M A R Y

PAGE: 1

DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

YEAR: 2018

## \*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
RANGE: 0 - 999999999999								
SRV-TABLE: 100-								
JANUARY	1	475	0.0000	1	475	475	0.0000	0.0000
FEBRUARY	1	421	0.0000	1	421	421	0.0000	0.0000
MARCH	1	286	0.0000	1	286	286	0.0000	0.0000
APRIL	1	1,238	0.0000	1	1,238	1,238	0.0000	0.0000
MAY	1	1,391	0.0000	1	1,391	1,391	0.0000	0.0000
JUNE	1	1,546	0.0000	1	1,546	1,546	0.0000	0.0000
TOTALS:	1	5,357	0.0000	6	5,357	893	0.0000	0.0000
SRV-TABLE: 100- 2"R								
JANUARY	1	18,817	0.0000	1	18,817	18,817	0.0000	0.0000
FEBRUARY	1	13,941	0.0000	1	13,941	13,941	0.0000	0.0000
MARCH	1	3,104	0.0000	1	3,104	3,104	0.0000	0.0000
APRIL	1	6,849	0.0000	1	6,849	6,849	0.0000	0.0000
MAY	1	8,996	0.0000	1	8,996	8,996	0.0000	0.0000
JUNE	1	12,891	0.0000	1	12,891	12,891	0.0000	0.0000
JULY	1	27,556	0.0000	1	27,556	27,556	0.0000	0.0000
AUGUST	1	40,906	0.0000	1	40,906	40,906	0.0000	0.0000
SEPTEMBER	1	11,391	0.0000	1	11,391	11,391	0.0000	0.0000
OCTOBER	1	10,162	0.0000	1	10,162	10,162	0.0000	0.0000
NOVEMBER	1	8,710	0.0000	1	8,710	8,710	0.0000	0.0000
TOTALS:	1	163,323	0.0000	11	163,323	14,848	0.0000	0.0000
SRV-TABLE: 100- 2CM								
JANUARY	1	1,881	0.0000	1	1,881	1,881	0.0000	0.0000
FEBRUARY	1	3,316	0.0000	1	3,316	3,316	0.0000	0.0000
MARCH	1	2,548	0.0000	1	2,548	2,548	0.0000	0.0000
APRIL	1	1,737	0.0000	1	1,737	1,737	0.0000	0.0000
MAY	1	2,545	0.0000	1	2,545	2,545	0.0000	0.0000
JUNE	1	4,629	0.0000	1	4,629	4,629	0.0000	0.0000
JULY	1	2,210	0.0000	1	2,210	2,210	0.0000	0.0000
AUGUST	1	8,663	0.0000	1	8,663	8,663	0.0000	0.0000
SEPTEMBER	1	38,820	0.0000	1	38,820	38,820	0.0000	0.0000
OCTOBER	1	6,281	0.0000	1	6,281	6,281	0.0000	0.0000
NOVEMBER	1	5,811	0.0000	1	5,811	5,811	0.0000	0.0000
TOTALS:	1	78,441	0.0000	11	78,441	7,131	0.0000	0.0000
SRV-TABLE: 100- 2DW								
JANUARY	1	24,600	0.0000	1	24,600	24,600	0.0000	0.0000
FEBRUARY	1	22,100	0.0000	1	22,100	22,100	0.0000	0.0000
MARCH	1	19,200	0.0000	1	19,200	19,200	0.0000	0.0000
APRIL	1	57,626	0.0000	1	57,626	57,626	0.0000	0.0000
MAY	1	63,625	0.0000	1	63,625	63,625	0.0000	0.0000
JUNE	1	66,036	0.0000	1	66,036	66,036	0.0000	0.0000

YEAR: 2018

DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

\*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
JULY	1	90,189	0.0000	1	90,189	90,189	0.0000	0.0000
AUGUST	1	106,511	0.0000	1	106,511	106,511	0.0000	0.0000
SEPTEMBER	1	122,546	0.0000	1	122,546	122,546	0.0000	0.0000
OCTOBER	1	68,785	0.0000	1	68,785	68,785	0.0000	0.0000
NOVEMBER	1	57,342	0.0000	1	57,342	57,342	0.0000	0.0000
TOTALS:	1	698,560	0.0000	11	698,560	63,505	0.0000	0.0000
SRV-TABLE: 100- 2IN								
JANUARY	127	9,600,964	0.0000	127	75,598	75,598	0.0000	0.0000
FEBRUARY	127	8,943,261	0.0000	127	70,419	70,419	0.0000	0.0000
MARCH	127	7,154,233	0.0000	127	56,333	56,333	0.0000	0.0000
APRIL	127	8,077,127	0.0000	127	63,599	63,599	0.0000	0.0000
MAY	128	9,261,024	0.0000	129	72,352	71,791	0.0000	0.0000
JUNE	130	9,410,153	0.0000	132	72,386	71,289	0.0000	0.0000
JULY	128	11,400,060	0.0000	129	89,063	88,373	0.0000	0.0000
AUGUST	128	10,698,742	0.0000	130	83,584	82,298	0.0000	0.0000
SEPTEMBER	129	10,511,103	0.0000	130	81,481	80,855	0.0000	0.0000
OCTOBER	131	10,239,470	0.0000	131	78,164	78,164	0.0000	0.0000
NOVEMBER	105	8,017,126	0.0000	106	76,354	75,633	0.0000	0.0000
TOTALS:	132	103,313,263	0.0000	1,395	782,676	74,060	0.0000	0.0000
SRV-TABLE: 100- CIR								
JANUARY	21	292,372	0.0000	21	13,922	13,922	0.0000	0.0000
FEBRUARY	20	93,392	0.0000	20	4,670	4,670	0.0000	0.0000
MARCH	20	61,639	0.0000	20	3,082	3,082	0.0000	0.0000
APRIL	20	167,135	0.0000	20	8,357	8,357	0.0000	0.0000
MAY	20	456,622	0.0000	20	22,831	22,831	0.0000	0.0000
JUNE	20	1,026,483	0.0000	20	51,324	51,324	0.0000	0.0000
JULY	22	1,903,346	0.0000	22	86,516	86,516	0.0000	0.0000
AUGUST	22	2,361,840	0.0000	22	107,356	107,356	0.0000	0.0000
SEPTEMBER	22	1,656,416	0.0000	22	75,292	75,292	0.0000	0.0000
OCTOBER	22	985,274	0.0000	22	44,785	44,785	0.0000	0.0000
NOVEMBER	17	312,680	0.0000	17	18,393	18,393	0.0000	0.0000
TOTALS:	22	9,317,199	0.0000	226	423,509	41,227	0.0000	0.0000
SRV-TABLE: 100- CM1								
JANUARY	53	1,538,885	0.0000	53	29,036	29,036	0.0000	0.0000
FEBRUARY	55	1,490,661	0.0000	55	27,103	27,103	0.0000	0.0000
MARCH	52	1,434,763	0.0000	52	27,592	27,592	0.0000	0.0000
APRIL	52	1,758,433	0.0000	52	33,816	33,816	0.0000	0.0000
MAY	52	1,814,110	0.0000	52	34,887	34,887	0.0000	0.0000
JUNE	52	1,951,639	0.0000	52	37,532	37,532	0.0000	0.0000
JULY	58	2,014,963	0.0000	59	34,741	34,152	0.0000	0.0000
AUGUST	58	2,103,533	0.0000	58	36,268	36,268	0.0000	0.0000
SEPTEMBER	58	1,770,032	0.0000	58	30,518	30,518	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

## C O N S U M P T I O N S U M M A R Y

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DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

YEAR: 2018

## \*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
OCTOBER	58	2,010,395	0.0000	59	34,662	34,074	0.0000	0.0000
NOVEMBER	54	1,793,797	0.0000	54	33,218	33,218	0.0000	0.0000
TOTALS:	58	19,681,211	0.0000	604	339,331	32,585	0.0000	0.0000
SRV-TABLE: 100- COL								
JANUARY	35	224,341	0.0000	35	6,410	6,410	0.0000	0.0000
FEBRUARY	35	123,722	0.0000	35	3,535	3,535	0.0000	0.0000
MARCH	35	150,321	0.0000	35	4,295	4,295	0.0000	0.0000
APRIL	35	343,691	0.0000	35	9,820	9,820	0.0000	0.0000
MAY	37	21,249,680	0.0000	39	574,316	544,864	0.0000	0.0000
JUNE	37	3,310,353	0.0000	37	89,469	89,469	0.0000	0.0000
JULY	38	2,514,366	0.0000	38	66,168	66,168	0.0000	0.0000
AUGUST	38	702,421	0.0000	38	18,485	18,485	0.0000	0.0000
SEPTEMBER	38	646,410	0.0000	38	17,011	17,011	0.0000	0.0000
OCTOBER	38	521,689	0.0000	38	13,729	13,729	0.0000	0.0000
TOTALS:	41	29,786,994	0.0000	368	726,512	80,943	0.0000	0.0000
SRV-TABLE: 100- COM								
JANUARY	660	5,035,372	0.0000	664	7,629	7,583	0.0000	0.0000
FEBRUARY	657	4,799,337	0.0000	662	7,305	7,250	0.0000	0.0000
MARCH	656	4,118,299	0.0000	657	6,278	6,268	0.0000	0.0000
APRIL	659	4,458,784	0.0000	661	6,766	6,746	0.0000	0.0000
MAY	655	4,352,365	0.0000	660	6,645	6,594	0.0000	0.0000
JUNE	658	5,053,825	0.0000	665	7,681	7,600	0.0000	0.0000
JULY	657	5,465,148	0.0000	660	8,318	8,281	0.0000	0.0000
AUGUST	655	5,412,669	0.0000	658	8,264	8,226	0.0000	0.0000
SEPTEMBER	656	5,531,870	0.0000	659	8,433	8,394	0.0000	0.0000
OCTOBER	657	4,945,533	0.0000	662	7,527	7,471	0.0000	0.0000
NOVEMBER	551	3,792,321	0.0000	553	6,883	6,858	0.0000	0.0000
TOTALS:	671	52,965,523	0.0000	7,161	78,935	7,396	0.0000	0.0000
SRV-TABLE: 100- HOS								
JANUARY	1	5,900	0.0000	1	5,900	5,900	0.0000	0.0000
FEBRUARY	1	28,800	0.0000	1	28,800	28,800	0.0000	0.0000
MARCH	1	28,000	0.0000	1	28,000	28,000	0.0000	0.0000
APRIL	1	43,700	0.0000	1	43,700	43,700	0.0000	0.0000
MAY	1	244,400	0.0000	1	244,400	244,400	0.0000	0.0000
JUNE	1	461,600	0.0000	1	461,600	461,600	0.0000	0.0000
JULY	1	686,700	0.0000	1	686,700	686,700	0.0000	0.0000
AUGUST	1	451,800	0.0000	1	451,800	451,800	0.0000	0.0000
SEPTEMBER	1	525,200	0.0000	1	525,200	525,200	0.0000	0.0000
OCTOBER	1	318,400	0.0000	1	318,400	318,400	0.0000	0.0000
NOVEMBER	1	35,200	0.0000	1	35,200	35,200	0.0000	0.0000
TOTALS:	1	2,829,700	0.0000	11	2,829,700	257,245	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

## C O N S U M P T I O N S U M M A R Y

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DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

YEAR: 2018

## \*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
<b>SRV-TABLE: 100- IR2</b>								
JANUARY	3	0	0.0000	3	0	0	0.0000	0.0000
FEBRUARY	3	0	0.0000	3	0	0	0.0000	0.0000
MARCH	3	0	0.0000	3	0	0	0.0000	0.0000
APRIL	3	49,341	0.0000	3	16,447	16,447	0.0000	0.0000
MAY	3	109,976	0.0000	3	36,659	36,659	0.0000	0.0000
JUNE	3	256,123	0.0000	3	85,374	85,374	0.0000	0.0000
JULY	3	334,440	0.0000	3	111,480	111,480	0.0000	0.0000
AUGUST	3	312,699	0.0000	3	104,233	104,233	0.0000	0.0000
SEPTEMBER	3	272,977	0.0000	3	90,992	90,992	0.0000	0.0000
OCTOBER	3	181,621	0.0000	3	60,540	60,540	0.0000	0.0000
NOVEMBER	2	1,739	0.0000	2	870	870	0.0000	0.0000
TOTALS:	3	1,518,916	0.0000	32	506,305	47,466	0.0000	0.0000
<b>SRV-TABLE: 100- IRR</b>								
JANUARY	3	0	0.0000	3	0	0	0.0000	0.0000
FEBRUARY	3	0	0.0000	3	0	0	0.0000	0.0000
MARCH	3	0	0.0000	3	0	0	0.0000	0.0000
APRIL	5	22,114	0.0000	5	4,423	4,423	0.0000	0.0000
MAY	5	81,059	0.0000	5	16,212	16,212	0.0000	0.0000
JUNE	5	185,079	0.0000	5	37,016	37,016	0.0000	0.0000
JULY	6	202,270	0.0000	6	33,712	33,712	0.0000	0.0000
AUGUST	6	364,540	0.0000	6	60,757	60,757	0.0000	0.0000
SEPTEMBER	6	187,865	0.0000	6	31,311	31,311	0.0000	0.0000
OCTOBER	7	216,366	0.0000	7	30,909	30,909	0.0000	0.0000
NOVEMBER	6	10,255	0.0000	6	1,709	1,709	0.0000	0.0000
TOTALS:	7	1,269,548	0.0000	55	181,364	23,083	0.0000	0.0000
<b>SRV-TABLE: 100- NC</b>								
JANUARY	5	125,240	0.0000	5	25,048	25,048	0.0000	0.0000
FEBRUARY	5	149,250	0.0000	6	29,850	24,875	0.0000	0.0000
MARCH	5	165,590	0.0000	5	33,118	33,118	0.0000	0.0000
APRIL	6	130,630	0.0000	6	21,772	21,772	0.0000	0.0000
MAY	6	139,010	0.0000	7	23,168	19,859	0.0000	0.0000
JUNE	6	9,609,860	0.0000	6	1,601,643	1,601,643	0.0000	0.0000
JULY	6	254,720	0.0000	6	42,453	42,453	0.0000	0.0000
AUGUST	6	169,670	0.0000	6	28,278	28,278	0.0000	0.0000
SEPTEMBER	6	150,170	0.0000	6	25,028	25,028	0.0000	0.0000
OCTOBER	6	128,000	0.0000	6	21,333	21,333	0.0000	0.0000
NOVEMBER	2	15,190	0.0000	2	7,595	7,595	0.0000	0.0000
TOTALS:	6	11,037,330	0.0000	61	1,839,555	180,940	0.0000	0.0000
<b>SRV-TABLE: 100- RES</b>								
JANUARY	5,372	22,655,341	0.0000	5,453	4,217	4,155	0.0000	0.0000
FEBRUARY	5,374	22,378,135	0.0000	5,469	4,164	4,092	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

YEAR: 2018

## C O N S U M P T I O N S U M M A R Y

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DATE RANGE: 1/2018 THRU 12/2018

CONSUMPTION TYPE: TOTAL

## \*\* RATE TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
MARCH	5,378	18,459,064	0.0000	5,483	3,432	3,367	0.0000	0.0000
APRIL	5,387	19,834,291	0.0000	5,478	3,682	3,621	0.0000	0.0000
MAY	5,390	21,041,877	0.0000	5,471	3,904	3,846	0.0000	0.0000
JUNE	5,389	27,054,196	0.0000	5,498	5,020	4,921	0.0000	0.0000
JULY	5,393	29,385,549	0.0000	5,495	5,449	5,348	0.0000	0.0000
AUGUST	5,400	28,496,087	0.0000	5,518	5,277	5,164	0.0000	0.0000
SEPTEMBER	5,396	25,255,638	0.0000	5,512	4,680	4,582	0.0000	0.0000
OCTOBER	5,405	21,439,202	0.0000	5,512	3,967	3,890	0.0000	0.0000
NOVEMBER	3,855	14,339,189	0.0000	3,932	3,720	3,647	0.0000	0.0000
TOTALS:	5,447	250,338,569	0.0000	58,821	45,959	4,256	0.0000	0.0000
SRV-TABLE: 100- T2I								
JANUARY	16	9,382,979	0.0000	16	586,436	586,436	0.0000	0.0000
FEBRUARY	16	13,734,773	0.0000	16	858,423	858,423	0.0000	0.0000
MARCH	16	11,636,839	0.0000	16	727,302	727,302	0.0000	0.0000
APRIL	16	12,524,442	0.0000	16	782,778	782,778	0.0000	0.0000
MAY	16	10,681,839	0.0000	16	667,615	667,615	0.0000	0.0000
JUNE	16	13,094,426	0.0000	16	818,402	818,402	0.0000	0.0000
JULY	16	16,092,630	0.0000	16	1,005,789	1,005,789	0.0000	0.0000
AUGUST	16	13,811,382	0.0000	16	863,211	863,211	0.0000	0.0000
SEPTEMBER	16	11,055,395	0.0000	16	690,962	690,962	0.0000	0.0000
OCTOBER	16	15,699,095	0.0000	16	981,193	981,193	0.0000	0.0000
NOVEMBER	17	10,612,295	0.0000	18	624,253	589,572	0.0000	0.0000
TOTALS:	17	138,326,095	0.0000	178	8,136,829	777,113	0.0000	0.0000
SRV-TABLE: 100- T3C								
JANUARY	3	23,763	0.0000	3	7,921	7,921	0.0000	0.0000
FEBRUARY	3	36,745	0.0000	3	12,248	12,248	0.0000	0.0000
MARCH	3	34,147	0.0000	3	11,382	11,382	0.0000	0.0000
APRIL	3	29,793	0.0000	3	9,931	9,931	0.0000	0.0000
MAY	3	265,800	0.0000	3	88,600	88,600	0.0000	0.0000
JUNE	3	402,205	0.0000	3	134,068	134,068	0.0000	0.0000
JULY	3	436,242	0.0000	3	145,414	145,414	0.0000	0.0000
AUGUST	3	595,506	0.0000	3	198,502	198,502	0.0000	0.0000
SEPTEMBER	3	1,739,899	0.0000	3	579,966	579,966	0.0000	0.0000
OCTOBER	3	479,251	0.0000	3	159,750	159,750	0.0000	0.0000
NOVEMBER	3	390,830	0.0000	3	130,277	130,277	0.0000	0.0000
TOTALS:	3	4,434,181	0.0000	33	1,478,060	134,369	0.0000	0.0000
SRV-TABLE: 100- TCM								
JANUARY	25	1,097,927	0.0000	25	43,917	43,917	0.0000	0.0000
FEBRUARY	25	525,297	0.0000	25	21,012	21,012	0.0000	0.0000
MARCH	25	909,287	0.0000	25	36,371	36,371	0.0000	0.0000
APRIL	25	890,038	0.0000	25	35,602	35,602	0.0000	0.0000
MAY	25	1,243,302	0.0000	25	49,732	49,732	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

YEAR: 2018

C O N S U M P T I O N S U M M A R Y

\*\* RATE TOTALS \*\*

PAGE: 6  
DATE RANGE: 1/2018 THRU 12/2018  
CONSUMPTION TYPE: TOTAL

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
JUNE	25	1,293,267	0.0000	25	51,731	51,731	0.0000	0.0000
JULY	25	1,221,124	0.0000	25	48,845	48,845	0.0000	0.0000
AUGUST	25	1,301,788	0.0000	25	52,072	52,072	0.0000	0.0000
SEPTEMBER	25	1,534,044	0.0000	25	61,362	61,362	0.0000	0.0000
OCTOBER	25	1,076,682	0.0000	25	43,067	43,067	0.0000	0.0000
NOVEMBER	25	1,137,378	0.0000	25	45,495	45,495	0.0000	0.0000
TOTALS:	25	12,230,134	0.0000	275	489,205	44,473	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

YEAR: 2018

## C O N S U M P T I O N S U M M A R Y

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CONSUMPTION TYPE: TOTAL

## \*\* CLASS TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
RANGE: 0 - 999999999999								
CUSTOMER CLASS: C2								
JANUARY	162	4,779,839	0.0000	163	29,505	29,324	0.0000	0.0000
FEBRUARY	162	4,879,361	0.0000	162	30,120	30,120	0.0000	0.0000
MARCH	162	4,145,332	0.0000	162	25,588	25,588	0.0000	0.0000
APRIL	162	4,747,552	0.0000	162	29,306	29,306	0.0000	0.0000
MAY	162	5,545,872	0.0000	163	34,234	34,024	0.0000	0.0000
JUNE	162	5,812,836	0.0000	162	35,882	35,882	0.0000	0.0000
JULY	161	6,216,626	0.0000	161	38,613	38,613	0.0000	0.0000
AUGUST	161	6,243,505	0.0000	162	38,780	38,540	0.0000	0.0000
SEPTEMBER	161	6,188,126	0.0000	161	38,436	38,436	0.0000	0.0000
OCTOBER	163	5,861,193	0.0000	163	35,958	35,958	0.0000	0.0000
NOVEMBER	141	5,064,281	0.0000	141	35,917	35,917	0.0000	0.0000
TOTALS:	164	59,484,523	0.0000	1,762	362,711	33,760	0.0000	0.0000
CUSTOMER CLASS: CI								
JANUARY	30	2,040,719	0.0000	30	68,024	68,024	0.0000	0.0000
FEBRUARY	30	1,917,522	0.0000	30	63,917	63,917	0.0000	0.0000
MARCH	30	1,829,570	0.0000	30	60,986	60,986	0.0000	0.0000
APRIL	30	1,779,061	0.0000	30	59,302	59,302	0.0000	0.0000
MAY	30	1,852,152	0.0000	30	61,738	61,738	0.0000	0.0000
JUNE	30	2,110,815	0.0000	30	70,361	70,361	0.0000	0.0000
JULY	30	1,981,010	0.0000	30	66,034	66,034	0.0000	0.0000
AUGUST	30	1,897,466	0.0000	30	63,249	63,249	0.0000	0.0000
SEPTEMBER	30	2,235,111	0.0000	30	74,504	74,504	0.0000	0.0000
OCTOBER	30	2,166,883	0.0000	30	72,229	72,229	0.0000	0.0000
NOVEMBER	25	1,406,082	0.0000	26	56,243	54,080	0.0000	0.0000
TOTALS:	30	21,216,391	0.0000	326	707,213	65,081	0.0000	0.0000
CUSTOMER CLASS: COL								
JANUARY	36	224,341	0.0000	36	6,232	6,232	0.0000	0.0000
FEBRUARY	36	129,382	0.0000	36	3,594	3,594	0.0000	0.0000
MARCH	36	152,951	0.0000	36	4,249	4,249	0.0000	0.0000
APRIL	36	345,141	0.0000	36	9,587	9,587	0.0000	0.0000
MAY	36	1,251,060	0.0000	36	34,752	34,752	0.0000	0.0000
JUNE	38	3,321,786	0.0000	38	87,415	87,415	0.0000	0.0000
JULY	38	2,515,344	0.0000	38	66,193	66,193	0.0000	0.0000
AUGUST	38	709,794	0.0000	38	18,679	18,679	0.0000	0.0000
SEPTEMBER	38	864,916	0.0000	38	22,761	22,761	0.0000	0.0000
OCTOBER	38	550,246	0.0000	38	14,480	14,480	0.0000	0.0000
TOTALS:	39	10,064,961	0.0000	370	258,076	27,203	0.0000	0.0000
CUSTOMER CLASS: COM								
JANUARY	699	10,853,100	0.0000	702	15,527	15,460	0.0000	0.0000
FEBRUARY	697	10,132,716	0.0000	702	14,538	14,434	0.0000	0.0000

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SERVICE CATEGORY: WTR-WATER

## C O N S U M P T I O N S U M M A R Y

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CONSUMPTION TYPE: TOTAL

YEAR: 2018

## \*\* CLASS TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
MARCH	693	8,212,671	0.0000	694	11,851	11,834	0.0000	0.0000
APRIL	696	9,385,154	0.0000	698	13,484	13,446	0.0000	0.0000
MAY	695	30,360,761	0.0000	702	43,685	43,249	0.0000	0.0000
JUNE	698	11,593,657	0.0000	707	16,610	16,398	0.0000	0.0000
JULY	704	14,274,626	0.0000	709	20,276	20,133	0.0000	0.0000
AUGUST	702	15,088,493	0.0000	706	21,494	21,372	0.0000	0.0000
SEPTEMBER	705	14,130,223	0.0000	709	20,043	19,930	0.0000	0.0000
OCTOBER	706	13,248,924	0.0000	712	18,766	18,608	0.0000	0.0000
NOVEMBER	593	9,550,267	0.0000	596	16,105	16,024	0.0000	0.0000
TOTALS:	723	146,830,592	0.0000	7,637	203,085	19,226	0.0000	0.0000
CUSTOMER CLASS: I1								
JANUARY	13	2,085,045	0.0000	13	160,388	160,388	0.0000	0.0000
FEBRUARY	13	1,540,446	0.0000	13	118,496	118,496	0.0000	0.0000
MARCH	13	1,660,364	0.0000	13	127,720	127,720	0.0000	0.0000
APRIL	13	1,879,191	0.0000	13	144,553	144,553	0.0000	0.0000
MAY	13	2,655,568	0.0000	13	204,274	204,274	0.0000	0.0000
JUNE	13	3,100,112	0.0000	13	238,470	238,470	0.0000	0.0000
JULY	13	4,648,467	0.0000	13	357,574	357,574	0.0000	0.0000
AUGUST	13	4,005,105	0.0000	13	308,085	308,085	0.0000	0.0000
SEPTEMBER	13	3,733,208	0.0000	13	287,170	287,170	0.0000	0.0000
OCTOBER	13	2,963,452	0.0000	13	227,958	227,958	0.0000	0.0000
NOVEMBER	13	2,404,222	0.0000	13	184,940	184,940	0.0000	0.0000
TOTALS:	13	30,675,180	0.0000	143	2,359,629	214,512	0.0000	0.0000
CUSTOMER CLASS: I2								
JANUARY	1	7,200,000	0.0000	1	7,200,000	7,200,000	0.0000	0.0000
FEBRUARY	1	11,150,000	0.0000	1	11,150,000	11,150,000	0.0000	0.0000
MARCH	1	9,505,000	0.0000	1	9,505,000	9,505,000	0.0000	0.0000
APRIL	1	10,220,000	0.0000	1	10,220,000	10,220,000	0.0000	0.0000
MAY	1	8,040,000	0.0000	1	8,040,000	8,040,000	0.0000	0.0000
JUNE	1	10,300,880	0.0000	1	10,300,880	10,300,880	0.0000	0.0000
JULY	1	12,394,310	0.0000	1	12,394,310	12,394,310	0.0000	0.0000
AUGUST	1	9,813,900	0.0000	1	9,813,900	9,813,900	0.0000	0.0000
SEPTEMBER	1	8,174,910	0.0000	1	8,174,910	8,174,910	0.0000	0.0000
OCTOBER	1	11,695,750	0.0000	1	11,695,750	11,695,750	0.0000	0.0000
NOVEMBER	1	7,682,910	0.0000	1	7,682,910	7,682,910	0.0000	0.0000
TOTALS:	1	106,177,660	0.0000	11	106,177,660	9,652,515	0.0000	0.0000
CUSTOMER CLASS: RES								
JANUARY	5,382	22,720,573	0.0000	5,463	4,222	4,159	0.0000	0.0000
FEBRUARY	5,384	22,444,474	0.0000	5,479	4,169	4,096	0.0000	0.0000
MARCH	5,388	18,505,842	0.0000	5,493	3,435	3,369	0.0000	0.0000
APRIL	5,399	19,910,240	0.0000	5,490	3,688	3,627	0.0000	0.0000
MAY	5,402	21,173,198	0.0000	5,483	3,920	3,862	0.0000	0.0000

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CONSUMPTION TYPE: TOTAL

## \*\* CLASS TOTALS \*\*

	TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
JUNE	5,401	27,344,365	0.0000	5,510	5,063	4,963	0.0000	0.0000
JULY	5,406	29,746,410	0.0000	5,508	5,502	5,401	0.0000	0.0000
AUGUST	5,413	29,010,824	0.0000	5,531	5,359	5,245	0.0000	0.0000
SEPTEMBER	5,408	25,533,112	0.0000	5,524	4,721	4,622	0.0000	0.0000
OCTOBER	5,418	21,711,758	0.0000	5,525	4,007	3,930	0.0000	0.0000
NOVEMBER	3,866	14,406,911	0.0000	3,943	3,727	3,654	0.0000	0.0000
TOTALS:	5,461	252,507,707	0.0000	58,949	46,238	4,283	0.0000	0.0000
CUSTOMER CLASS: SO								
JANUARY	5	125,240	0.0000	5	25,048	25,048	0.0000	0.0000
FEBRUARY	5	149,250	0.0000	6	29,850	24,875	0.0000	0.0000
MARCH	5	165,590	0.0000	5	33,118	33,118	0.0000	0.0000
APRIL	6	130,630	0.0000	6	21,772	21,772	0.0000	0.0000
MAY	6	139,010	0.0000	7	23,168	19,859	0.0000	0.0000
JUNE	6	9,609,860	0.0000	6	1,601,643	1,601,643	0.0000	0.0000
JULY	6	254,720	0.0000	6	42,453	42,453	0.0000	0.0000
AUGUST	6	169,670	0.0000	6	28,278	28,278	0.0000	0.0000
SEPTEMBER	6	150,170	0.0000	6	25,028	25,028	0.0000	0.0000
OCTOBER	6	128,000	0.0000	6	21,333	21,333	0.0000	0.0000
NOVEMBER	2	15,190	0.0000	2	7,595	7,595	0.0000	0.0000
TOTALS:	6	11,037,330	0.0000	61	1,839,555	180,940	0.0000	0.0000

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Y E A R T O T A L S

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CONSUMPTION TYPE: TOTAL

TOT-ADDRS	TOT-CONS	TOT-DMD	TOT-BILLS	CONS/ADDR	CONS/BILL	DMD/ADDR	DMD/BILL
YEAR: 2018 RANGE: 0 - 999999999999	6,437	637,994,344	0.0000	69,259	99,114	9,212	0.0000 0.0000
GRAND TOTALS:	6,437	637,994,344	0.0000	69,259	99,114	9,212	0.0000 0.0000

## SELECTION CRITERIA

## REPORT SELECTION

SELECTION BY: < All Zones >  
CUSTOMER CLASS: All  
SERVICE CATEGORY: WTR - WATER

## COMMENTS:

ALL COMMENTS REQUIRED: NO

VALUE

COMMENT CODES: NONE SELECTED

## ANALYSIS OPTIONS

CONSUMPTION PERIOD(S) FROM: 01/2018 THROUGH 12/2018  
CONSUMPTION TEST BASED ON: TOTAL  
CONSUMPTION TYPE TO USE: TOTAL (METER) CONSUMPTION  
PRINT MONTHLY TOTALS: YES  
COMBINE YEAR TOTALS: NO  
PRINT ACCOUNT DETAIL: NO

## CONSUMPTION RANGES

- 999999999999

\*\* END OF REPORT \*\*