

**RESOLUTION NO. 2014-53**

**A RESOLUTION OF THE BOARD OF MAYOR AND ALDERMEN FOR THE CITY OF FRANKLIN AMENDING THE ESTIMATE OF REVENUES AND EXPENDITURES FOR THE WATER AND SANITARY SEWER UTILITY FUND FOR FISCAL YEAR 2014-2015; PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, the City of Franklin owns and operates a water and sanitary sewer utility system under authorization of the Municipal Charter, and

**WHEREAS**, this Utility Fund is an enterprise fund of the City in accordance with generally accepted accounting principles, and

**WHEREAS**, the City of Franklin adopted Resolution 2013-51 estimate of revenues and expenditures for such fund for Fiscal Years 2014 and 2015, and

**WHEREAS**, it is necessary for the City of Franklin to amend the estimate of revenues and expenditures for Fiscal Year 2014 for such fund, and

**WHEREAS**, it is now deemed in the public interest to provide for authorization of the amendment to the estimate of revenues and expenditures for such fund.

**NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF MAYOR AND ALDERMEN OF THE CITY OF FRANKLIN, TENNESSEE THAT:**

**SECTION 1:** That the amendment to the Statement of Estimated Revenues and Expenditures for the Water and Sewer Utility Fund, for Fiscal Year 2014-2015, as set forth more fully in Attachment A, is herewith approved and adopted.

**SECTION 2:** That this Resolution shall be effective upon adoption.

**ADOPTED THIS \_\_\_\_ DAY OF \_\_\_\_\_ 2014.**

**ATTEST:**

**CITY OF FRANKLIN, TENNESSEE**

**By:** \_\_\_\_\_  
**Eric S. Stuckey**  
**City Administrator/Recorder**

**By:** \_\_\_\_\_  
**Dr. Ken Moore**  
**Mayor**

**Approved as to Form:**

**By:** \_\_\_\_\_  
**Shauna R. Billingsley**  
**City Attorney**



HISTORIC  
FRANKLIN  
TENNESSEE

# City of Franklin, Tennessee Water Management

Operating & Capital Equipment  
*Biennial Budget*  
FY 2014 & FY 2015 Amendment



HISTORIC  
**F R A N K L I N**  
TENNESSEE

# **Board of Mayor & Aldermen**

**Dr. Ken Moore, Mayor**

**Beverly Burger**

**Clyde Barnhill**

**Dana McLendon**

**Pearl Bransford**

**Michael Skinner**

**Margaret Martin**

**Ann Petersen**

**Brandy Blanton**

**Eric Stuckey, City Administrator**

**Russell Truell, Assistant City Administrator for Finance and Administration**

**Vernon Gerth, Assistant City Administrator for Community Development**

**Mark Hilty, Water Management Director**

## Table of Contents

<b>WATER MANAGEMENT OVERVIEW .....</b>	<b>5</b>
<b>WATER SECTION .....</b>	<b>6</b>
<b>Overview .....</b>	<b>7</b>
<b>Goals &amp; Strategic Initiatives .....</b>	<b>7</b>
<b>Consumption and Revenues.....</b>	<b>8</b>
<b>Expenditures.....</b>	<b>10</b>
<b>WASTEWATER SECTION.....</b>	<b>15</b>
<b>Overview .....</b>	<b>16</b>
<b>Goals &amp; Strategic Initiatives.....</b>	<b>16</b>
<b>Service Volumes and Revenues.....</b>	<b>17</b>
<b>Expenditures.....</b>	<b>19</b>
<b>RECLAIMED WATER SECTION.....</b>	<b>26</b>
<b>Overview .....</b>	<b>27</b>
<b>Goals &amp; Strategic Initiatives .....</b>	<b>27</b>
<b>Revenues .....</b>	<b>28</b>
<b>Expenditures.....</b>	<b>29</b>
<b>APPENDIX A: ORGANIZATION .....</b>	<b>30</b>

# Water Management

*Mark S. Hilly, Director*

The Water Management Department's vision, in support of the City's vision statement, is to continually strive to enhance quality of life through exceptional, responsive, and cost effective water resources services. These services include drinking water treatment and distribution, wastewater collection and treatment, and reclaimed water distribution for customers located primarily in the City of Franklin.

To achieve this vision it is necessary to safely and efficiently deliver drinking water, sanitary sewer and reclaimed water services to our customers. The Water Management Department continues to evolve through formalization and refinement of practices and through the implementation of the Integrated Water Resources Plan.

This amendment of the FY 2015 component of the FY 2014 and 2015 biennial budget was developed to further refine operations to achieve the department's vision, in support of the City of Franklin's goals and objectives. Revenues and expenditures for each division are presented in consolidated Sections as follows:

<b>Division</b>	<b>Section</b>
Water Distribution	Water
Water Treatment	Water
Utility Billing	Water
Wastewater Collection	Wastewater
Wastewater Treatment	Wastewater
Utility Administration	Wastewater
Reclaimed Water	Reclaimed Water

Water and wastewater are independent business units of the City of Franklin and are required to be self-sufficient entities. These utilities are not subsidized by local taxes, paying the General Fund monies to cover the costs of services such as payroll, human resources and other support activities. Reclaimed water, while presented as its own section, is an alternative disposal method of treated sanitary sewer. This disposal method in effect, increases the discharge capacity of the wastewater treatment plant (primarily during summer months) and provides a cost effective source of irrigation water within the reclaimed water distribution system while providing revenue to support its operation.



HISTORIC  
FRANKLIN  
TENNESSEE

# Water Section

## Water Section *Overview*

The Water Section comprises the Water Treatment and Distribution Divisions and the Utility Billing Division. The activities of these divisions are summarized below.

- The Water Treatment facility is located on Lewisburg Pike. Staff at the plant perform numerous functions including water treatment, compliance sampling, and assisting Water Distribution service crews with system maintenance and operation.
- The Water Distribution service crews maintain approximately 275 miles of distribution lines, six (6) booster stations, and seven (7) finished water reservoirs with a capacity of 11.5 million gallons.
- The Utility Billing Division is the interface between the Water Management Department and Revenue Management. The division is responsible for collecting metering data and working with the Water Distribution Division to perform meter repairs, replacements, and to restore or terminate water service.

## Water Section *Goals & Strategic Initiatives*

The primary goal for the Water Section is to continue to provide safe, reliable drinking water to customers. The Water Section has been working to refine practices and policies to better serve customers including the drafting of revisions to municipal code, review of internal work flow related to customer service requests and work orders and training and educating staff. Some of the ongoing work includes refinements to scheduled the flushing program and to the standard operating procedures.

A key strategic initiative is design of upgrades to the Water Treatment Facility. The aging facility currently uses conventional treatment technologies to treat water. Staff has been working with design consultants to evaluate various treatment technologies specific to Harpeth River and raw water reservoir water. The current recommendation is to upgrade the facility (2.6 MGD) with membrane filtration, ultraviolet (UV) disinfection and advanced oxidation processes to address current and future regulatory requirements, taste and odor, lifecycle costs and operational considerations. A contract is currently proceeding to install UV disinfection equipment at an interim location to address regulatory requirements by September 2014. At this time, the construction of overall plant upgrades is expected to be complete by January 2017.

An ongoing project that the Water Section has been working through is leak detection surveys. Due to scheduling conflicts the Water Section was unable to contract with a leak detection firm in FY 2013. This work recommenced in October 2013 which helped to identify 45 leaks with an estimated annual loss of approximately 110 million gallons and saving rate payers the avoided cost of approximately \$280,000 annually.



## Water Section

### *Consumption and Revenues*

The water customer base has increased approximately 200 accounts from FY 2013 to FY 2014. The average consumption for both residential and commercial customers declined approximately 560 gallons per month. The table below presents the account information and consumption values (residential and commercial totals) from FY 2007 through FY 2014.

Year	Customer Accounts	Annual Total (Million Gallons)	Monthly Average - Residential and Commercial (Gallons)
FY 07	16,194	1,662	8,553
FY 08	16,360	1,628	8,293
FY 09	16,444	1,576	7,987
FY 10	16,426	1,443	7,321
FY 11	16,454	1,489	7,541
FY 12	16,530	1,508	7,602
FY 13	16,711	1,499	7,475
FY 14	16,918	1,404	6,916

Rate based revenues for FY 2014 are projected to be at approximately 96% of the budget. The tables below present the FY 2013 revenues, the budgeted and projected revenues for FY 2014 and the projected revenues for FY 2015 through 2021. The FY 2015 through FY 2021 revenues are based on revenue requirements projected during the cost of service analyses and include debt service associated with the priority water distribution projects as approved by the BOMA (starting in 2018) and debt service associated with the Water Treatment Plant Upgrade (starting in 2017).

## Revenues through Budget 2015

	2013 Actual	2014 Budget	2014 Projected	2015
<b>Available Funds</b>				
INTEREST INCOME	28,431	15,800	28,185	28,431
RENTAL INCOME	24,000	20,000	24,000	24,000
SALE OF SURPLUS ASSETS	-	-	25,788	-
TOTAL USE OF MONEY & PROPERTY	50,431	35,800	75,961	50,431
CUSTOMER SERVICE (RATE)	9,200,339	9,489,548	9,100,100	8,980,197
PENALTIES	288,000	280,000	286,742	288,000
SERVICE CHARGES	170,000	95,000	170,131	170,000
INSPECTION FEES	71,000	80,000	70,859	71,000
OTHER SERVICE REVENUE	85,000	91,800	97,938	85,000
TOTAL CUSTOMER SERVICE	9,802,339	9,998,348	9,705,769	9,582,197
CONTRIBUTIONS FROM DEVELOPER	-	-	-	-
INSTALLATION FEE	100,000	75,000	99,851	100,000
TOTAL CAPITAL CONTRIBUTIONS	100,000	75,000	99,851	100,000
<b>Total Available Funds</b>	9,952,770	10,108,848	9,881,580	9,712,628

## Revenues Forecast 2016 through 2021

	2016	2017	2018	2019	2020	2021
<b>Available Funds</b>						
INTEREST INCOME	28,431	28,431	28,431	28,431	28,431	28,431
RENTAL INCOME	24,000	24,000	24,000	24,000	24,000	24,000
SALE OF SURPLUS ASSETS	-	-	-	-	-	-
TOTAL USE OF MONEY & PROPERTY	50,431	50,431	50,431	50,431	50,431	50,431
CUSTOMER SERVICE (RATE)	9,191,988	10,110,411	10,538,044	11,020,720	11,505,832	12,011,879
PENALTIES	288,000	288,000	288,000	288,000	288,000	288,000
SERVICE CHARGES	170,000	170,000	170,000	170,000	170,000	170,000
INSPECTION FEES	71,000	71,000	71,000	71,000	71,000	71,000
OTHER SERVICE REVENUE	85,000	95,000	95,000	95,000	85,000	85,000
TOTAL CUSTOMER SERVICE	9,793,988	10,712,411	11,140,044	11,622,720	12,107,632	12,513,879
CONTRIBUTIONS FROM DEVELOPER	-	-	-	-	-	-
INSTALLATION FEE	100,000	100,000	100,000	100,000	100,000	100,000
TOTAL CAPITAL CONTRIBUTIONS	100,000	100,000	100,000	100,000	100,000	100,000
<b>Total Available Funds</b>	9,844,418	10,862,842	11,290,475	11,773,151	12,258,063	12,764,310

# Water Section

## Water Expenditures

**Personnel** – The staffing tables below present the position, pay grade, the proposed number of budgeted positions for FY 2014 and FY 2015, and the projected positions for FY 2016 through FY 2021. There are no proposed staffing changes in the Water Section for the planning horizon. Appendix A presents the overall department organization.

### WATER SECTION - Proposed Personnel

UTILITY BILLING				
POSITION	PAY GRADE	BUDGETED FY 2013	BUDGETED FY 2014	BUDGETED FY 2015
Meter Reader Sr	C	1	1	1
Meter Reader	B	2	2	2
<b>TOTALS</b>		<b>3</b>	<b>3</b>	<b>3</b>
WATER DISTRIBUTION				
POSITION	PAY GRADE	BUDGETED FY 2013	BUDGETED FY 2014	BUDGETED FY 2015
Service Division Superintendent	F	1	1	1
Water Distribution Assistant Superintendent	G	1	1	1
Utilities Crew Chief	E	3	3	3
Backflow Inspector	E	2	2	2
Administrative Assistant	D	1	1	1
Inventory Specialist	D	1	1	1
Equipment Operator	D	2	2	2
Utility Service Worker	C	4	4	4
<b>TOTALS</b>		<b>15</b>	<b>15</b>	<b>15</b>
WATER TREATMENT PLANT				
POSITION	PAY GRADE	BUDGETED FY 2013	BUDGETED FY 2014	BUDGETED FY 2015
Water Treatment Superintendent	H	1	1	1
Water Treatment Assistant Superintendent	G	1	1	1
Water Operator Sr	E	5	5	5
Water Operator 2	T60	2	2	2
Administrative Assistant	D	1	1	1
Water Operator	D	3	3	3
<b>TOTALS</b>		<b>13</b>	<b>13</b>	<b>13</b>
<b>WATER SECTION TOTALS</b>		<b>31</b>	<b>31</b>	<b>31</b>

**WATER SECTION - Projected Personnel**

UTILITY BILLING							
POSITION	PAY GRADE	PROJECTED FY 2016	PROJECTED FY 2017	PROJECTED FY 2018	PROJECTED FY 2019	PROJECTED FY 2020	PROJECTED FY 2021
Meter Reader Sr	C	1	1	1	1	1	1
Meter Reader	E	2	2	2	2	2	2
<b>TOTALS</b>		<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
WATER DISTRIBUTION							
POSITION	PAY GRADE	PROJECTED FY 2016	PROJECTED FY 2017	PROJECTED FY 2018	PROJECTED FY 2019	PROJECTED FY 2020	PROJECTED FY 2021
Service Division Superintendent	I	1	1	1	1	1	1
Water Distribution Assistant Superintendent	G	1	1	1	1	1	1
Utilities Crew Chief	E	3	3	3	3	3	3
Backflow Inspector	E	2	2	2	2	2	2
Administrative Assistant	D	1	1	1	1	1	1
Inventory Specialist	D	1	1	1	1	1	1
Equipment Operator	D	2	2	2	2	2	2
Utility Service Worker	C	4	4	4	4	4	4
<b>TOTALS</b>		<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>
WATER TREATMENT PLANT							
POSITION	PAY GRADE	PROJECTED FY 2016	PROJECTED FY 2017	PROJECTED FY 2018	PROJECTED FY 2019	PROJECTED FY 2020	PROJECTED FY 2021
Water Plant Superintendent	H	1	1	1	1	1	1
Water Plant Assistant Superintendent	G	1	1	1	1	1	1
Water Operator Sr	E	5	5	5	5	5	5
Water Operator 2	TBC	2	2	2	2	2	2
Administrative Assistant	D	1	1	1	1	1	1
Water Operator	D	3	3	3	3	3	3
<b>TOTALS</b>		<b>13</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>13</b>
<b>WATER SECTION TOTALS</b>		<b>31</b>	<b>31</b>	<b>31</b>	<b>31</b>	<b>31</b>	<b>31</b>

**Operations** – The largest operations expense in the Water Section continues to be the purchase of finished water. Expenditures on purchased water can fluctuate depending on a number of factors. Some of these factors include Franklin Water Treatment capacities, weather, financial considerations, and water resource conservation efforts. The expenditure for FY 2014 is approximately \$3,450,000.

Indirect Expenses also is a large expense item in the Water Section. These expenses include payment to the General Fund for customer service, utility billing, and other support functions such as Engineering and Human Resources.

Utilities are estimated to be approximately \$258,000 for FY 2014. Electricity is the primary cost, and is necessary for booster pump stations in the distribution system, high service and raw water pumps at the Water Treatment Plant, and other day to day needs. Raw water pumping expenditures has decreased since the rehabilitation work to the reservoir. The Water Section continues to evaluate energy needs and practices to reduce electrical consumption.

**Operations Capital** – Operations Capital expenditures are related to equipment and vehicles directly related to operations versus system replacement or expansion. The Water Management Department has evaluated the annual cost of replacement of operations capital items based on present day replacement value, anticipated lifecycle, and a projected annual increase in replacement cost of five percent. The department hopes to achieve the following goals by using this approach:

- Provide for adequate funding of operations capital,

- Avoid significant swings in required funding from one budget to another, and
- Provide more stable data in performing cost of service analyses.

This process was applied to operations capital expenditures on machinery and equipment, vehicals, information technology expenditures, and buildings.

### Expenditures through Budget 2015

PERSONNEL		Actual 2013	Budget 2014	2014		Amended
				Estimated	Budget 2015	Budget 2015
81100	Salaries & Wages	\$ 1,159,690	\$ 1,328,338	\$ 1,214,579	\$ 1,374,009	\$ 1,340,547
81400	Employee Benefits	\$ 519,928	\$ 559,065	\$ 362,050	\$ 575,920	\$ 541,008
<b>TOTAL PERSONNEL</b>		<b>\$ 1,679,618</b>	<b>\$ 1,887,404</b>	<b>\$ 1,776,638</b>	<b>\$ 1,949,929</b>	<b>\$ 1,881,555</b>
OPERATIONS		Actual 2013	Budget 2014	2014		Amended
				Estimated	Budget 2015	Budget 2015
82100	Transportation Services	\$ 968	\$ 1,350	\$ 1,250	\$ 1,350	\$ 1,600
82200	Operating Services	\$ 11,921	\$ 15,000	\$ 22,773	\$ 15,840	\$ 21,500
82300	Notices Subscriptions Publications	\$ 5,307	\$ 10,250	\$ 7,612	\$ 10,450	\$ 9,750
82400	Utilities	\$ 237,522	\$ 252,950	\$ 223,219	\$ 264,902	\$ 228,880
82500	Contractual Services	\$ 95,708	\$ 58,000	\$ 104,439	\$ 55,000	\$ 202,125
82600	Repair & Maintenance Services	\$ 175,013	\$ 112,000	\$ 123,769	\$ 116,420	\$ 126,000
82700	Employee Programs	\$ 1,604	\$ 7,400	\$ 300	\$ 7,400	\$ 7,400
82800	Professional Development/Travel	\$ 13,244	\$ 8,900	\$ 9,566	\$ 8,900	\$ 8,900
83100	Office Supplies	\$ 4,906	\$ 4,500	\$ 3,605	\$ 4,500	\$ 4,500
83200	Operating Supplies	\$ 300,441	\$ 275,750	\$ 299,597	\$ 293,790	\$ 303,350
83300	Fuel & Mileage	\$ 44,529	\$ 30,200	\$ 34,015	\$ 32,012	\$ 37,700
83400	Supplies for Resale	\$ 3,799,487	\$ 3,500,000	\$ 3,475,000	\$ 3,600,000	\$ 3,600,000
83500	Machinery & Equipment (<\$25,000)	\$ 8,819	\$ 61,300	\$ 7,100	\$ 62,265	\$ 61,325
83600	Repair & Maintenance Supplies	\$ 399,898	\$ 249,300	\$ 239,312	\$ 256,772	\$ 229,300
84000	Operational Units	\$ 1,033,983	\$ 1,058,823	\$ 1,059,823	\$ 1,090,588	\$ 1,157,951
85100	Property & Liability Costs	\$ 42,983	\$ 89,076	\$ 70,674	\$ 91,748	\$ 70,721
85200	Rentals	\$ 23,526	\$ 2,000	\$ -	\$ 2,030	\$ 2,000
85300	Permits	\$ 31,351	\$ 38,100	\$ 33,204	\$ 40,005	\$ 33,100
85500	Financial Fees	\$ 24,042	\$ 41,800	\$ 16,800	\$ 41,854	\$ 16,800
86000	Debt Service and Lease Payments	\$ 190,666	\$ 209,739	\$ 209,933	\$ 209,821	\$ 209,821
<b>TOTAL OPERATIONS</b>		<b>\$ 6,453,923</b>	<b>\$ 6,023,338</b>	<b>\$ 5,943,190</b>	<b>\$ 6,193,647</b>	<b>\$ 6,339,723</b>
CAPITAL		Actual 2013	Budget 2014	2014		Amended
				Estimated	Budget 2015	Budget 2015
89200	Buildings	\$ -	\$ 2,000	\$ -	\$ 2,100	\$ 2,100
89300	Improvements	\$ 637,171	\$ 1,300,000	\$ 552,963	\$ 1,300,000	\$ 1,300,000
89500	Machinery & Equipment (>\$25,000)	\$ 63,955	\$ 185,000	\$ -	\$ 189,250	\$ 189,250
<b>TOTAL CAPITAL</b>		<b>\$ 701,126</b>	<b>\$ 1,487,000</b>	<b>\$ 552,963</b>	<b>\$ 1,491,350</b>	<b>\$ 1,491,350</b>
<b>TOTAL EXPENDITURES</b>		<b>\$ 8,836,662</b>	<b>\$ 9,397,742</b>	<b>\$ 8,272,791</b>	<b>\$ 9,636,826</b>	<b>\$ 9,712,628</b>

## Expenditures Forecast 2016 through 2021

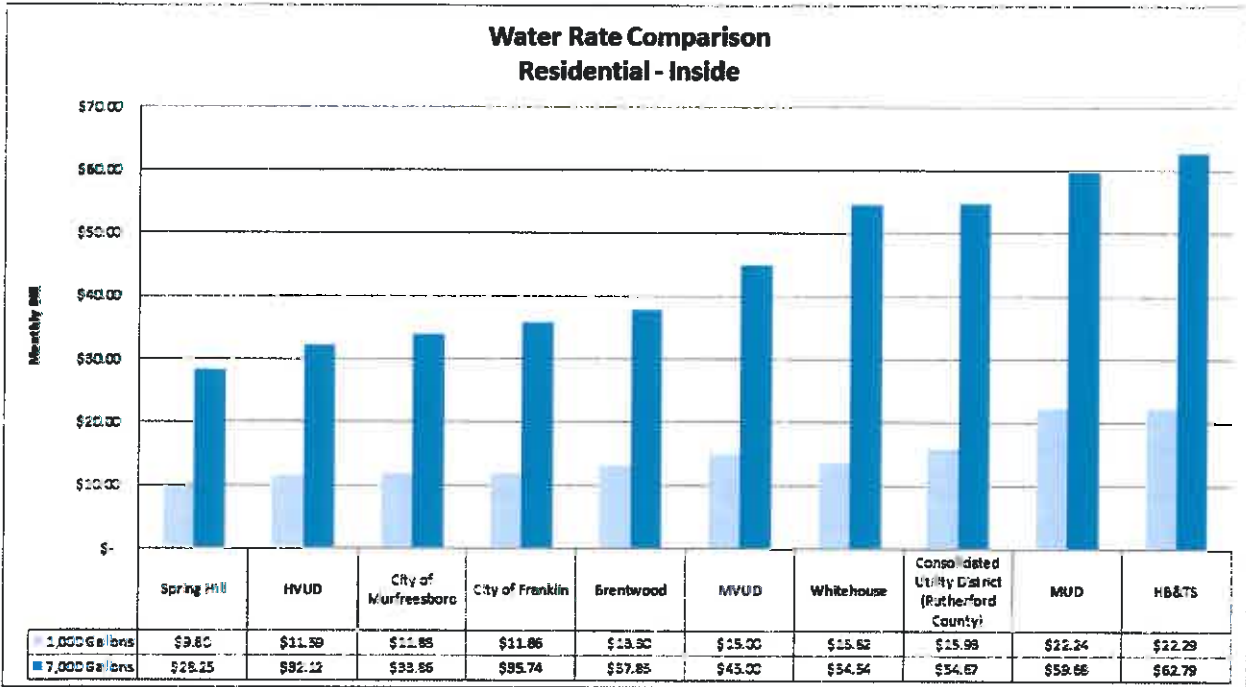
<b>PERSONNEL</b>		<b>Budget 2016</b>	<b>Forecast 2017</b>	<b>Forecast 2018</b>	<b>Forecast 2019</b>	<b>Forecast 2020</b>	<b>Forecast 2021</b>
81100	Salaries & Wages	\$ 1,367,182	\$ 1,407,118	\$ 1,448,251	\$ 1,490,619	\$ 1,594,258	\$ 1,579,206
81400	Employee Benefits	\$ 557,239	\$ 573,957	\$ 591,173	\$ 608,963	\$ 637,177	\$ 645,989
<b>TOTAL PERSONNEL</b>		<b>\$ 1,924,421</b>	<b>\$ 1,981,075</b>	<b>\$ 2,039,424</b>	<b>\$ 2,099,582</b>	<b>\$ 2,161,435</b>	<b>\$ 2,225,195</b>
<b>OPERATIONS</b>		<b>Budget 2016</b>	<b>Forecast 2017</b>	<b>Forecast 2018</b>	<b>Forecast 2019</b>	<b>Forecast 2020</b>	<b>Forecast 2021</b>
82100	Transportation Services	\$ 1,600	\$ 1,600	\$ 1,600	\$ 1,600	\$ 1,600	\$ 1,600
82200	Operating Services	\$ 21,500	\$ 21,500	\$ 21,500	\$ 21,500	\$ 21,500	\$ 21,500
82300	Notices Subscriptions Publications	\$ 9,750	\$ 9,750	\$ 9,750	\$ 9,750	\$ 9,750	\$ 9,750
82400	Utilities	\$ 235,641	\$ 242,603	\$ 249,774	\$ 257,159	\$ 264,768	\$ 272,603
82500	Contractual Services	\$ 172,125	\$ 102,125	\$ 122,125	\$ 117,125	\$ 92,125	\$ 122,125
82600	Repair & Maintenance Services	\$ 126,000	\$ 96,000	\$ 96,000	\$ 96,000	\$ 96,000	\$ 96,000
82700	Employee Programs	\$ 7,400	\$ 7,400	\$ 7,400	\$ 7,400	\$ 7,400	\$ 7,400
82800	Professional Development/Travel	\$ 8,900	\$ 8,900	\$ 8,900	\$ 8,900	\$ 8,900	\$ 8,900
83100	Office Supplies	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
83200	Operating Supplies	\$ 314,000	\$ 322,498	\$ 331,250	\$ 340,265	\$ 349,550	\$ 359,114
83300	Fuel & Mileage	\$ 38,831	\$ 39,997	\$ 41,195	\$ 42,432	\$ 43,705	\$ 45,015
83400	Supplies for Resale	\$ 3,738,798	\$ 3,891,557	\$ 4,047,312	\$ 4,209,291	\$ 4,379,950	\$ 4,555,148
83500	Machinery & Equipment (<\$25,000)	\$ 63,451	\$ 65,684	\$ 68,028	\$ 70,490	\$ 73,073	\$ 75,787
83600	Repair & Maintenance Supplies	\$ 244,300	\$ 244,300	\$ 244,300	\$ 244,300	\$ 244,300	\$ 244,300
84000	Operational Units	\$ 1,192,630	\$ 1,228,471	\$ 1,263,325	\$ 1,303,285	\$ 1,342,393	\$ 1,382,655
85100	Property & Liability Costs	\$ 72,843	\$ 75,029	\$ 77,279	\$ 79,597	\$ 81,985	\$ 84,443
85200	Rentals	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000
85300	Permits	\$ 38,100	\$ 38,100	\$ 38,100	\$ 38,100	\$ 38,100	\$ 38,100
85500	Financial Fees	\$ 16,800	\$ 16,800	\$ 16,800	\$ 16,800	\$ 16,800	\$ 16,800
86000	Debt Service and Lease Payments	\$ 209,851	\$ 209,828	\$ 209,754	\$ 209,628	\$ 209,799	\$ 209,909
<b>TOTAL OPERATIONS</b>		<b>\$ 6,524,080</b>	<b>\$ 6,628,644</b>	<b>\$ 6,862,892</b>	<b>\$ 7,030,122</b>	<b>\$ 7,288,188</b>	<b>\$ 7,557,649</b>
<b>CAPITAL</b>		<b>Budget 2016</b>	<b>Forecast 2017</b>	<b>Forecast 2018</b>	<b>Forecast 2019</b>	<b>Forecast 2020</b>	<b>Forecast 2021</b>
89200	Buildings	\$ 2,203	\$ 2,315	\$ 2,431	\$ 2,553	\$ 2,680	\$ 2,814
89300	Improvements	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000	\$ 1,500,000	\$ 1,500,000
89500	Machinery & Equipment (>\$25,000)	\$ 193,713	\$ 198,398	\$ 203,318	\$ 208,484	\$ 213,908	\$ 219,604
<b>TOTAL CAPITAL</b>		<b>\$ 1,495,916</b>	<b>\$ 1,500,713</b>	<b>\$ 1,505,749</b>	<b>\$ 1,711,037</b>	<b>\$ 1,716,588</b>	<b>\$ 1,722,418</b>
<b>TOTAL EXPENDITURES</b>		<b>\$ 9,944,419</b>	<b>\$ 10,110,432</b>	<b>\$ 10,408,065</b>	<b>\$ 10,890,741</b>	<b>\$ 11,166,211</b>	<b>\$ 11,505,262</b>

The City has been working through the IWRP priority projects established by the BOMA. The key projects in the Water Section include the Water Treatment Plant Upgrade and several distribution projects. These projects are proposed to be funded through State Revolving Fund loans through the TDEC which result in the estimated debt service impacts presented in the following table.

Project	Project Cost	Water Rates / System Development Fees	Water Access Fees	Annual Debt Service Impact
Water Distribution Projects	Design and Construction: \$1,950,000	100%	0%	Start: 2018 Term: 20 Years \$130,000
Water Treatment Plant	Design: \$1,634,095 Construction: \$11,666,603	85%	15%	Start: 2017 Term: 20 Years \$752,410

**RATE SURVEY**

Staff has conducted a rate survey of various Middle Tennessee municipalities and utility districts and has compiled the available information. While the City does not have the lowest rates in either water or sanitary sewer, it does remain highly competitive. The results of this survey are presented below.





HISTORIC  
FRANKLIN  
TENNESSEE

# Wastewater Section



## Wastewater Section

### Overview

The Wastewater Section includes the Wastewater Collection, Water Reclamation, Maintenance, and Utility Administration Divisions.

The City of Franklin operates an activated sludge treatment facility located at 135 Claude Yates Drive. The City of Franklin presently has a National Pollutant Discharge Elimination System Permit (NPDES) for treatment and discharge of twelve (12) million gallons of treated effluent per day. Limits and procedures were incorporated into the NPDES Permit that allows the City of Franklin to operate a reclaimed water network. This Division is facing increasing regulatory constraints from EPA and TDEC in the area of Local Limit Loading Reductions to the Harpeth River and additional Capacity Management Operation Maintenance (CMOM) Initiative requirements. The City is currently operating under an expired NPDES permit, awaiting issuance of new permit from the Tennessee Department of Environment and Conservation (TDEC).

The Wastewater Collection Division is responsible for the operation and maintenance of the wastewater collection system including gravity sewer lines, force main lines and sewage lift stations located throughout the service area. Under this division, there are crews that are assigned to the replacement and extension of the wastewater collection system which collects and transports wastewater to the treatment plant. It is anticipated that this division will be facing an increasing workload in order to maintain compliance with EPA's Capacity Management Operation Maintenance (CMOM) Initiative requirements.



## Wastewater Section

### Goals and Strategic Initiatives

The primary goal for the Wastewater Section is to effectively operate the collection system with no sanitary sewer overflows and to produce high quality effluent water for distribution in the reclaimed water system and discharge to the Harpeth River that meets or exceeds permit requirements. As with the Water Section, the Wastewater Section is enhancing and implementing various programs to improve customer service, regulatory compliance, and overall operations.

One ongoing initiative is the department's energy management program. Water Reclamation Facility staff continue to identify ways to reduce energy consumption. The team involved with

this process has started working with other divisions of the department to apply the lessons learned and expand the departments energy management program.

In response to an EPA inspection and report received in December 2013, the Water Management Department is refining components to the EPA’s Capacity Management, Operations and Maintenance (CMOM) program. In part, these activities include refinements to documentation and operations, development of a capacity management tool, and design and installation of permanent flow monitors within the collection system. These activities are intended to help monitor the system, reduce sanitary sewer overflows and provide better management tools for the system.

The wastewater collection division continues to perform inspections of the sanitary sewer system to evaluate condition, risk and maintenance needs. In FY 2014 the division has inspected approximately 200,000 feet (over 37 miles) miles of sanitary sewer. The data captured through these inspections have helped prioritize maintenance activities and have been used to develop improvement projects based on risk and condition.

## Wastewater Section

### *Service Volumes and Revenues*

The sanitary sewer customer base has shown greater signs of growth primarily due to areas within the Mallory Valley and HB&TS Utility Districts. FY 2014 accounts are up approximately 500 customers from FY 2013 and have shown steady growth over the past 7 years.

Year	Customer Accounts	Annual Total (Million Gallons)	Monthly Average - Residential and Commercial (Gallons)
FY 07	16,708	1,582	7,889
FY 08	16,215	1,619	8,323
FY 09	18,617	1,900	8,504
FY 10	19,923	2,068	8,649
FY 11	20,201	2,334	9,627
FY 12	20,646	2,204	8,898
FY 13	21,221	2,332	9,157
FY 14	21,735	2,224	8,528

Rate based revenues are projected to be at 99% of the budget. The tables below present FY 2013 actual figures, the estimated and budgeted numbers for FY 2014 and projected numbers for FY 2015 through FY 2021. The FY 2014 and FY 2015 budget revenues are based on the approved rate adjustment scheduled for January 1, 2014 and projected growth within the service area.

The FY 2015 through FY 2021 revenues are based on revenue requirements projected during the cost of service analyses and include debt service associated with upgrade and expansion of the Water Reclamation Facility (starting in 2018).

### Revenues through Budget 2015

	2013 Actual	2014 Budgeted	2014 Projected	2015
<b>Available Funds</b>				
INTEREST INCOME	82,843	16,000	73,754	82,843
RENTAL INCOME	1,800	-	2,700	1,800
SALE OF SURPLUS ASSETS	-	-	-	-
TOTAL USE OF MONEY & PROPERTY	84,643	16,000	76,454	84,643
CUSTOMER SERVICE	11,200,948	12,858,178	12,782,780	12,047,735
INSPECTION FEES	75,298	50,000	81,231	75,298
OTHER SERVICE REVENUE	68,115	40,000	44,334	68,115
TOTAL CUSTOMER SERVICE	11,342,281	12,948,178	12,908,345	12,189,148
CONTRIBUTIONS FROM DEVELOPER	-	-	-	-
CONTRIBUTIONS OTHER	-	-	-	-
INSTALLATION FEE	180,170	125,000	185,862	180,170
TOTAL CAPITAL CONTRIBUTIONS	180,170	125,000	185,862	180,170
<b>Total Available Funds</b>	<b>11,587,074</b>	<b>13,069,178</b>	<b>13,150,680</b>	<b>12,433,961</b>

### Revenues Forecast 2016 through 2021

	2016	2017	2018	2019	2020	2021
<b>Available Funds</b>						
INTEREST INCOME	82,843	82,843	82,843	82,843	82,843	82,843
RENTAL INCOME	1,800	1,800	1,800	1,800	1,800	1,800
SALE OF SURPLUS ASSETS	-	-	-	-	-	-
TOTAL USE OF MONEY & PROPERTY	84,643	84,643	84,643	84,643	84,643	84,643
CUSTOMER SERVICE	12,405,874	12,958,983	16,084,657	16,562,881	18,084,854	18,820,520
INSPECTION FEES	75,298	75,298	75,298	75,298	75,298	75,298
OTHER SERVICE REVENUE	68,115	68,115	68,115	68,115	68,115	68,115
TOTAL CUSTOMER SERVICE	12,547,287	13,099,396	16,226,270	16,724,294	18,238,067	18,953,933
CONTRIBUTIONS FROM DEVELOPER	-	-	-	-	-	-
CONTRIBUTIONS OTHER	-	-	-	-	-	-
INSTALLATION FEE	180,170	180,170	180,170	180,170	180,170	180,170
TOTAL CAPITAL CONTRIBUTIONS	180,170	180,170	180,170	180,170	180,170	180,170
<b>Total Available Funds</b>	<b>12,792,100</b>	<b>13,244,909</b>	<b>16,471,083</b>	<b>16,969,107</b>	<b>18,480,680</b>	<b>20,008,743</b>

## Wastewater Section

### *Wastewater Expenditures*

**Personnel** – The Water Management Department is requesting the following personnel changes within the Wastewater Section:

- Reclassify a vacant Administrative Assistant position to Administrative Secretary.
- Reclassify two seasonal Grounds Worker positions to full time.
- Add a Senior Utility Inspector position to provide for adequate staffing with respect to development processes and City projects.
- Eliminate the Maintenance Division and reclassify Maintenance Superintendent to Maintenance Technician.

The staffing tables below present the position, pay grade, the proposed number of budgeted positions for FY 2014 and FY 2015, and the projected positions for FY 2016 through FY 2021. Appendix A presents the overall organization for the department

## WASTEWATER SECTION - Proposed Personnel

### UTILITY ADMINISTRATION

POSITION	PAY GRADE	BUDGETED	BUDGETED	BUDGETED
		2013	FY 2014	FY 2015
Director	L	1	1	1
Assistant Director of Operations	J	1	1	1
Assistant Director of Administration and Policy	J	1	1	1
GIS Analyst	E	1	1	1
Administrative Assistant	D	1	1	0
Administrative Secretary	B	0	0	1
Utility Inspector	F	3	3	3
Senior Utility Inspector	G - EST	0	0	1
Office Manager	F	0	1	1
Utilities Engineer II	H	1	1	1
Grounds Worker (Seasonal)	B	0	2	2
<b>TOTALS</b>		<b>9</b>	<b>12</b>	<b>13</b>

### WASTEWATER COLLECTION

POSITION	PAY GRADE	BUDGETED	BUDGETED	BUDGETED
		2013	FY 2014	FY 2015
Wastewater Collection Assistant Superintendent	G	1	1	1
Construction Supervisor	TBD	1	1	1
TV Truck Sewer Inspector	D	2	2	2
Maintenance Technician	E	0	0	4
Utilities Crew Chief	E	4	3	3
Equipment Operator	D	2	2	2
Sewer Equipment Technician	D	4	4	4
Utility Service Worker	C	5	5	5
<b>TOTALS</b>		<b>19</b>	<b>18</b>	<b>22</b>

### WATER RECLAMATION

POSITION	PAY GRADE	BUDGETED	BUDGETED	BUDGETED
		2013	FY 2014	FY 2015
Water Reclamation Superintendent	I	1	1	1
Assistant Water Reclamation Superintendent	G	1	1	1
Pretreatment Coordinator	F	1	1	1
Wastewater Operator Sr.	E	3	5	5
Maintenance Technician	E	0	0	1
Equipment Operator	D	2	2	2
Wastewater Operator	D	10	8	8
<b>TOTALS</b>		<b>18</b>	<b>18</b>	<b>19</b>

### MAINTENANCE

POSITION	PAY GRADE	BUDGETED	BUDGETED	BUDGETED
		2013	FY 2014	FY 2015
Maintenance Supervisor	G - EST	1	1	0
Maintenance Technician	E	4	4	0
<b>TOTALS</b>		<b>5</b>	<b>5</b>	<b>0</b>

### WASTEWATER SECTION TOTALS

		<b>51</b>	<b>53</b>	<b>54</b>
<b>TOTAL WATER MANAGEMENT</b>		<b>82</b>	<b>84</b>	<b>85</b>

**WASTEWATER SECTION - Projected Personnel**

<b>UTILITY ADMINISTRATION</b>							
POSITION	PAY GRADE	PROJECTED FY 2016	PROJECTED FY 2017	PROJECTED FY 2018	PROJECTED FY 2019	PROJECTED FY 2020	PROJECTED FY 2021
Director	L	1	1	1	1	1	1
Assistant Director of Operations	J	1	1	1	1	1	1
Assistant Director of Administration and Policy	J	1	1	1	1	1	1
GIS Specialist	E	1	1	1	1	1	1
Administrative Assistant	D	0	0	0	0	0	0
Administrative Secretary	B	1	1	1	1	1	1
Utility Inspector	F	3	3	3	3	3	3
Senior Utility Inspector	G - EST	1	1	1	1	1	1
Office Manager	F	1	1	1	1	1	1
Utilities Engineer II	H	1	2	2	2	2	2
Grounds Worker (Seasonal)	B	2	2	2	2	2	2
<b>TOTALS</b>		<b>13</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>WASTEWATER COLLECTION</b>							
POSITION	PAY GRADE	PROJECTED FY 2016	PROJECTED FY 2017	PROJECTED FY 2018	PROJECTED FY 2019	PROJECTED FY 2020	PROJECTED FY 2021
Wastewater Collection Assistant Superintendent	G	1	1	1	1	1	1
Construction Supervisor	TBD	1	1	1	1	1	1
TV Truck Sewer Inspector	D	2	2	2	2	2	2
Maintenance Technician	E	4	4	0	0	0	0
Utilities Crew Chief	E	3	4	4	4	4	4
Equipment Operator	D	2	3	3	3	3	3
Sewer Equipment Technician	D	4	4	4	4	4	4
Utility Service Worker	C	5	6	6	6	6	6
<b>TOTALS</b>		<b>22</b>	<b>25</b>	<b>21</b>	<b>21</b>	<b>21</b>	<b>21</b>
<b>WATER RECLAMATION</b>							
POSITION	PAY GRADE	PROJECTED FY 2016	PROJECTED FY 2017	PROJECTED FY 2018	PROJECTED FY 2019	PROJECTED FY 2020	PROJECTED FY 2021
Water Reclamation Superintendent	J	1	1	1	1	1	1
Assistant Water Reclamation Superintendent	G	1	1	1	1	1	1
Pretreatment Coordinator	F	1	1	1	1	1	1
Wastewater Operator Sr	E	5	5	5	5	5	5
Maintenance Technician	E	1	1	0	0	0	0
Equipment Operator	D	2	2	2	2	2	2
Wastewater Operator	D	8	8	8	8	8	8
<b>TOTALS</b>		<b>19</b>	<b>19</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>
<b>MAINTENANCE</b>							
POSITION	PAY GRADE	PROJECTED FY 2016	PROJECTED FY 2017	PROJECTED FY 2018	PROJECTED FY 2019	PROJECTED FY 2020	PROJECTED FY 2021
Maintenance Supervisor	G - EST	0	0	1	1	1	1
Maintenance Technician	E	0	0	4	4	4	4
<b>TOTALS</b>		<b>0</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>WASTEWATER SECTION TOTALS</b>		<b>54</b>	<b>58</b>	<b>58</b>	<b>58</b>	<b>58</b>	<b>58</b>
<b>TOTAL WATER MANAGEMENT</b>		<b>85</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>89</b>

**Operations and Maintenance** – Operations and maintenance accounts for the largest costs in the Wastewater Section. Utility costs are a large expense item in Wastewater, exceeding \$1,000,000 annually. These costs are associated with aeration of the wastewater for biological processes, pumping, odor control and various other processes and operations.

Indirect Expenses also is a large expense item in the Wastewater Section. As with the Water Section, these expenses include reimbursement to the General Fund for customer service, utility billing, and other support functions such as Engineering and Human Resources.

The FOG program is an ongoing effort to remove fats oils and grease from the collection system to improve conveyance and treatment of wastewater. This program has improved the collection system significantly by working with food service industry to ensure there is adequate FOG

removal. This program will be expanded this year to residential customers through education efforts.

**Operations Capital** – Operations Capital expenditures are related to equipment and vehicles directly related to operations versus system replacement or expansion. The Water Management Department has evaluated the annual cost of replacement of operations capital items based on present day replacement value, anticipated lifecycle, and a projected annual increase in replacement cost of five percent. The department hopes to achieve the following goals by using this approach:

- Provide for adequate funding of operations capital,
- Avoid significant swings in required funding from one budget to another, and
- Provide more stable data in performing cost of service analyses.

This process was applied to operations capital expenditures on machinery and equipment, vehicals, information technology expenditures, and buildings.



## Expenditures through Budget 2015

PERSONNEL		Actual 2013	Budget 2014	2014		Amended
				Estimated	Budget 2015	Budget 2015
81100	Salaries & Wages	\$ 1,968,859	\$ 2,371,390	\$ 1,880,166	\$ 2,447,721	\$ 2,479,710
81400	Employee Benefits	\$ 1,021,324	\$ 969,576	\$ 977,383	\$ 998,423	\$ 937,074
<b>TOTAL PERSONNEL</b>		<b>\$ 2,990,183</b>	<b>\$ 3,340,966</b>	<b>\$ 2,857,549</b>	<b>\$ 3,446,144</b>	<b>\$ 3,416,784</b>
OPERATIONS		Actual 2013	Budget 2014	2014		Amended
				Estimated	Budget 2015	Budget 2015
82100	Transportation Services	\$ 2,968	\$ 3,350	\$ 2,612	\$ 3,350	\$ 3,300
82200	Operating Services	\$ 311,551	\$ 305,300	\$ 354,403	\$ 318,510	\$ 365,760
82300	Notices Subscriptions Publications	\$ 9,655	\$ 19,700	\$ 11,369	\$ 20,305	\$ 16,750
82400	Utilities	\$ 1,339,152	\$ 1,422,950	\$ 1,297,725	\$ 1,494,819	\$ 1,411,350
82500	Contractual Services	\$ 142,825	\$ 157,000	\$ 172,769	\$ 204,000	\$ 322,250
82600	Repair & Maintenance Services	\$ 304,669	\$ 235,300	\$ 264,090	\$ 244,320	\$ 238,000
82700	Employee Programs	\$ 1,109	\$ 4,750	\$ -	\$ 4,750	\$ 4,750
82800	Professional Development/Travel	\$ 20,478	\$ 19,500	\$ 11,716	\$ 19,500	\$ 19,500
83100	Office Supplies	\$ 5,852	\$ 7,650	\$ 6,313	\$ 7,650	\$ 7,150
83200	Operating Supplies	\$ 268,361	\$ 296,300	\$ 251,033	\$ 321,465	\$ 272,100
83300	Fuel & Mileage	\$ 121,754	\$ 137,000	\$ 113,000	\$ 145,220	\$ 125,000
83500	Machinery & Equipment (<\$25,000)	\$ 41,453	\$ 99,320	\$ 17,956	\$ 104,257	\$ 104,257
83600	Repair & Maintenance Supplies	\$ 142,266	\$ 143,000	\$ 172,493	\$ 149,275	\$ 151,000
84000	Operational Units	\$ 919,096	\$ 941,177	\$ 941,177	\$ 969,412	\$ 1,029,289
85100	Property & Liability Costs	\$ 103,198	\$ 123,664	\$ 151,216	\$ 127,375	\$ 130,651
85200	Rentals	\$ 3,559	\$ 3,350	\$ 3,432	\$ 3,350	\$ 3,500
85300	Permits	\$ 13,829	\$ 17,000	\$ 16,572	\$ 17,330	\$ 17,000
85500	Financial Fees	\$ 21,968	\$ 45,000	\$ 32,000	\$ 45,000	\$ 45,000
86000	Debt Service and Lease Payments	\$ 1,070,146	\$ 1,343,336	\$ 1,248,511	\$ 1,316,145	\$ 1,316,395
<b>TOTAL OPERATIONS</b>		<b>\$ 4,843,889</b>	<b>\$ 5,332,147</b>	<b>\$ 5,169,504</b>	<b>\$ 5,517,073</b>	<b>\$ 5,593,202</b>
CAPITAL		Actual 2013	Budget 2014	2014		Amended
				Estimated	Budget 2015	Budget 2015
89100	Land	\$ -	\$ -	\$ 33,900	\$ -	\$ -
89200	Buildings	\$ -	\$ 1,500	\$ -	\$ 1,575	\$ 1,575
89300	Improvements	\$ 904,784	\$ 2,000,000	\$ 1,960,000	\$ 2,500,000	\$ 2,500,000
89500	Machinery & Equipment (>\$25,000)	\$ -	\$ 1,173,950	\$ 319,200	\$ 905,748	\$ 932,400
<b>TOTAL CAPITAL</b>		<b>\$ 904,784</b>	<b>\$ 3,177,450</b>	<b>\$ 2,313,100</b>	<b>\$ 3,407,323</b>	<b>\$ 3,433,975</b>
<b>TOTAL EXPENDITURES</b>		<b>\$ 8,738,856</b>	<b>\$ 11,850,563</b>	<b>\$ 10,339,153</b>	<b>\$ 12,370,540</b>	<b>\$ 12,433,961</b>



## Expenditures Forecast 2016 through 2021

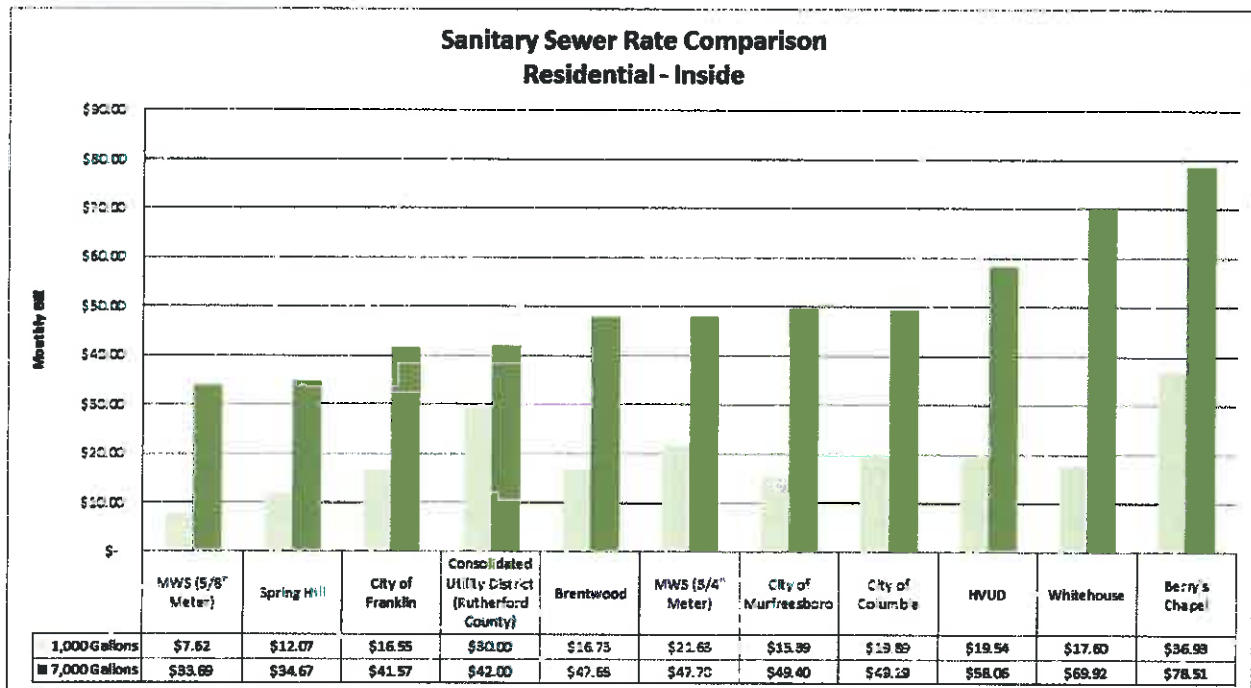
PERSONNEL		Budget 2016	Forecast 2017	Forecast 2018	Forecast 2019	Forecast 2020	Forecast 2021
81100	Salaries & Wages	\$ 2,539,891	\$ 2,614,378	\$ 2,691,099	\$ 2,770,122	\$ 2,851,516	\$ 2,935,352
81400	Employee Benefits	\$ 965,187	\$ 994,142	\$ 1,023,965	\$ 1,054,683	\$ 1,086,325	\$ 1,118,912
<b>TOTAL PERSONNEL</b>		<b>\$ 3,505,078</b>	<b>\$ 3,608,520</b>	<b>\$ 3,715,064</b>	<b>\$ 3,824,805</b>	<b>\$ 3,937,841</b>	<b>\$ 4,054,264</b>
OPERATIONS		Budget 2016	Forecast 2017	Forecast 2018	Forecast 2019	Forecast 2020	Forecast 2021
82100	Transportation Services	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500
82200	Operating Services	\$ 383,760	\$ 402,661	\$ 422,505	\$ 443,342	\$ 465,232	\$ 488,194
82300	Notices Subscriptions Publications	\$ 16,600	\$ 16,600	\$ 16,600	\$ 16,600	\$ 16,600	\$ 16,600
82400	Utilities	\$ 1,453,991	\$ 1,497,911	\$ 1,543,143	\$ 1,589,746	\$ 1,637,734	\$ 1,687,164
82500	Contractual Services	\$ 307,500	\$ 307,750	\$ 308,000	\$ 323,250	\$ 308,500	\$ 309,750
82600	Repair & Maintenance Services	\$ 238,000	\$ 238,000	\$ 238,000	\$ 238,000	\$ 238,000	\$ 238,000
82700	Employee Programs	\$ 4,751	\$ 4,752	\$ 4,753	\$ 4,754	\$ 4,755	\$ 4,756
82800	Professional Development/Travel	\$ 19,500	\$ 19,500	\$ 19,500	\$ 19,500	\$ 19,500	\$ 19,500
83100	Office Supplies	\$ 7,150	\$ 7,150	\$ 7,150	\$ 7,150	\$ 7,150	\$ 7,150
83200	Operating Supplies	\$ 278,850	\$ 283,803	\$ 292,964	\$ 300,339	\$ 307,937	\$ 315,762
83300	Fuel & Mileage	\$ 128,750	\$ 132,614	\$ 136,591	\$ 140,689	\$ 144,909	\$ 149,256
83500	Machinery & Equipment (<\$25,000)	\$ 109,441	\$ 114,381	\$ 120,596	\$ 126,596	\$ 132,896	\$ 139,510
83600	Repair & Maintenance Supplies	\$ 151,000	\$ 151,000	\$ 151,000	\$ 151,000	\$ 151,000	\$ 151,000
84000	Operational Units	\$ 1,060,168	\$ 1,091,973	\$ 1,124,732	\$ 1,158,474	\$ 1,193,228	\$ 1,229,025
85100	Property & Liability Costs	\$ 134,573	\$ 138,611	\$ 142,768	\$ 147,052	\$ 151,483	\$ 156,006
85200	Rentals	\$ 3,501	\$ 3,502	\$ 3,503	\$ 3,504	\$ 3,505	\$ 3,506
85300	Permits	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000
85500	Financial Fees	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000
86000	Debt Service and Lease Payments	\$ 1,283,798	\$ 1,269,796	\$ 1,240,485	\$ 1,225,467	\$ 1,189,092	\$ 1,150,307
<b>TOTAL OPERATIONS</b>		<b>\$ 5,646,833</b>	<b>\$ 5,747,004</b>	<b>\$ 5,837,792</b>	<b>\$ 5,960,963</b>	<b>\$ 6,036,991</b>	<b>\$ 6,129,986</b>
CAPITAL		Budget 2016	Forecast 2017	Forecast 2018	Forecast 2019	Forecast 2020	Forecast 2021
89100	Land	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
89200	Buildings	\$ 1,654	\$ 1,736	\$ 1,823	\$ 1,914	\$ 2,010	\$ 2,111
89300	Improvements	\$ 2,687,500	\$ 2,889,063	\$ 3,105,742	\$ 3,333,673	\$ 3,589,073	\$ 3,858,254
89500	Machinery & Equipment (>\$25,000)	\$ 951,033	\$ 998,586	\$ 1,068,852	\$ 1,100,942	\$ 1,155,989	\$ 1,213,789
<b>TOTAL CAPITAL</b>		<b>\$ 3,640,189</b>	<b>\$ 3,889,385</b>	<b>\$ 4,176,417</b>	<b>\$ 4,441,529</b>	<b>\$ 4,747,072</b>	<b>\$ 5,074,154</b>
<b>TOTAL EXPENDITURES</b>		<b>\$ 12,792,100</b>	<b>\$ 13,244,909</b>	<b>\$ 13,729,273</b>	<b>\$ 14,227,297</b>	<b>\$ 14,721,904</b>	<b>\$ 15,258,404</b>

Similar to the Water Section, the City has been working through the IWRP priority projects established by the BOMA. The key projects in the Wastewater Section include the Water Reclamation Facility Upgrade and Expansion. These projects are also proposed to be funded through State Revolving Fund loans through the TDEC which result in the estimated debt service impacts presented in the following table.

Project	Project Cost	Wastewater Rates / System Development Fees	Wastewater Access Fees	Annual Debt Service Impact
Water Reclamation Facility Upgrade and Expansion	\$95,000,000	75%	25%	Start: 2018 Term: 20 Years \$4,741,810

## RATE SURVEY

Staff has conducted a rate survey of various Middle Tennessee municipalities and utility districts and has compiled the available information. While the City does not have the lowest rates in either water or sanitary sewer, it does remain highly competitive. The results of this survey are presented below.





HISTORIC  
FRANKLIN  
TENNESSEE

# Reclaimed Water Section

## Reclaimed Water Section *Overview*

On February 10, 2004, the City of Franklin Board of Mayor and Aldermen officially created the Reclaimed Division through adoption of Title 18, Chapter 4, of the Franklin Municipal Code. With the adoption of Chapter 4, the Water Management Department instituted the enforcement of the State Approved Construction Standards, Regulation and Fee Structures as set forth in the



Ordinance. The Reclaimed Water Section produces and distributes water for commercial and residential irrigation use within the City's water service area.

There are no dedicated personnel assigned to this division. Personnel from the Wastewater Collection Division and Water Distribution Division currently maintain the reclaimed water lines and personnel from the Water Reclamation Plant operate and maintain the pumps and sampling stations.

## Reclaimed Water Section *Goals and Strategic Initiatives*

The primary goal for the Reclaimed Water Section is to distribute high quality effluent water for irrigation needs of customers. In FY 2014 and 2015, the department will focus particularly on metering of reclaimed water. In general, reclaimed water consumption occurs at relatively high volumes as compared to domestic water. In recent years, there have been a number of meters that have been replaced well before the expected lifecycle. Staff will evaluate meter effectiveness in the reclaimed water application to determine if alternative types of meters are more appropriate to ensure meter accuracy and ultimately accurate revenues.

Though reclaimed water is not an essential service, it is imperative that the Department be able to serve the demands for the system. Depending on growth and technical issues, it is anticipated that the existing Long Lane Water Tank (500,000 gallons) will be converted to a reclaimed storage facility in the coming years. Additional storage facilities are being considered using existing Department property.

# Reclaimed Water Section

## Revenues

The tables below present a two year history, FY 2013 budgeted and estimated figures, the proposed budgets for FY 2014 and 2015 and projected revenues through FY 2020.

### Revenues through Budget 2015

	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Budget 2015
<b>Available Funds</b>					
FEDERAL ARRA # 7	178,887	0	0	0	0
TOTAL INTERGOVERNMENTAL	178,887	0	0	0	0
INTEREST INCOME	1,840	510	500	500	500
TOTAL USE OF MONEY & PROPERTY	1,840	510	500	500	500
CUSTOMER SERVICE	146,724	287,740	213,927	200,000	200,000
PENALTIES	282	500	264	500	500
INSPECTION FEES	0	520	2,337	1,000	1,000
OTHER SERVICE REVENUE	0	0	600	500	500
TOTAL CUSTOMER SERVICE	147,006	288,760	217,128	202,000	202,000
INSTALLATION FEE	0	0	4,234	2,000	2,000
TOTAL CAPITAL CONTRIBUTIONS	0	0	4,234	2,000	2,000
<b>Total Available Funds</b>	<b>327,733</b>	<b>289,270</b>	<b>221,862</b>	<b>204,500</b>	<b>204,500</b>

### Revenues Forecast 2016 through 2020

	Forecast 2016	Forecast 2017	Forecast 2018	Forecast 2019	Forecast 2020
<b>Available Funds</b>					
INTEREST INCOME	500	500	500	500	500
TOTAL USE OF MONEY & PROPERTY	500	500	500	500	500
CUSTOMER SERVICE	200,000	200,000	200,000	200,000	200,000
PENALTIES	500	500	500	500	500
INSPECTION FEES	1,000	1,000	1,000	1,000	1,000
OTHER SERVICE REVENUE	500	500	500	500	500
TOTAL CUSTOMER SERVICE	202,000	202,000	202,000	202,000	202,000
INSTALLATION FEE	2,000	2,000	2,000	2,000	2,000
TOTAL CAPITAL CONTRIBUTIONS	2,000	2,000	2,000	2,000	2,000
<b>Total Available Funds</b>	<b>204,500</b>	<b>204,500</b>	<b>204,500</b>	<b>204,500</b>	<b>204,500</b>

# Reclaimed Water Section

## Expenditures

### Expenditures through Budget 2015

OPERATIONS		Actual 2013	Budget 2014	2014 Estimated	Budget 2015	Amended Budget 2015
82100	Transportation Services	\$ -	\$ 250	\$ -	\$ 258	\$ 250
82300	Notices Subscriptions Publications	\$ -	\$ 100	\$ -	\$ 103	\$ 100
82400	Utilities	\$ 12	\$ 50	\$ 12	\$ 52	\$ 50
82500	Contractual Services	\$ 9,723	\$ -	\$ -	\$ -	\$ -
82600	Repair & Maintenance Services	\$ -	\$ 12,000	\$ -	\$ 12,960	\$ 12,000
83200	Operating Supplies	\$ 85,370	\$ 100,200	\$ 85,200	\$ 103,206	\$ 100,200
83500	Machinery & Equipment (<\$25,000)	\$ -	\$ 2,000	\$ -	\$ 2,060	\$ 2,000
83600	Repair & Maintenance Supplies	\$ 2,819	\$ 15,500	\$ 4,200	\$ 15,965	\$ 15,500
86000	Debt Service and Lease Payments	\$ 23,580	\$ 65,975	\$ 65,975	\$ 65,975	\$ 65,975
<b>TOTAL OPERATIONS</b>		<b>\$ 121,504</b>	<b>\$ 196,075</b>	<b>\$ 155,387</b>	<b>\$ 199,979</b>	<b>\$ 196,075</b>
<b>TOTAL EXPENDITURES</b>		<b>\$ 121,504</b>	<b>\$ 196,075</b>	<b>\$ 155,387</b>	<b>\$ 196,075</b>	<b>\$ 669,041</b>

### Expenditures Forecast 2016 through 2021

OPERATIONS		Budget 2016	Forecast 2017	Forecast 2018	Forecast 2019	Forecast 2020	Forecast 2021
82100	Transportation Services	\$ 250	\$ 250	\$ 250	\$ 250	\$ 250	\$ 250
82300	Notices Subscriptions Publications	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100
82400	Utilities	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50
82500	Contractual Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
82600	Repair & Maintenance Services	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000
83200	Operating Supplies	\$ 103,200	\$ 106,290	\$ 109,473	\$ 112,751	\$ 116,127	\$ 119,605
83500	Machinery & Equipment (<\$25,000)	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000
83600	Repair & Maintenance Supplies	\$ 15,500	\$ 15,500	\$ 15,500	\$ 15,500	\$ 15,500	\$ 15,500
86000	Debt Service and Lease Payments	\$ 65,975	\$ 65,975	\$ 65,975	\$ 65,975	\$ 65,975	\$ 65,975
<b>TOTAL OPERATIONS</b>		<b>\$ 199,075</b>	<b>\$ 202,165</b>	<b>\$ 205,348</b>	<b>\$ 208,626</b>	<b>\$ 212,002</b>	<b>\$ 215,480</b>
<b>TOTAL EXPENDITURES</b>		<b>\$ 199,075</b>	<b>\$ 202,165</b>	<b>\$ 205,348</b>	<b>\$ 208,626</b>	<b>\$ 212,002</b>	<b>\$ 215,480</b>

## Appendix A: Organization

The Water Management Department staffed facilities include the Administration and Service Divisions facility, the Water Reclamation Facility and the Water Treatment Plant. The following organizational chart presents the Water Management Department organization and the staffing per division.