

# ENVIRONMENTAL HEALTH

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**Winston-Salem**

# SANITATION

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## MISSION STATEMENT

The mission of the Sanitation Division is to provide economical and effective collection of refuse, yard waste, and recyclables and transport these materials to state-approved disposal sites.

## PROGRAM DESCRIPTIONS

### Residential Refuse Collection

- Provides weekly backyard collection or voluntary curbside collection to single-family residences, multi-family residences, and small businesses that generate the same amount of trash as a residential unit
- Manages the voluntary curbside garbage program for residents who are issued a 96-gallon roll-out cart at no charge and agree to haul the cart to and from the curb each week

### Central Business District Services

- Provides refuse collection six nights per week for businesses and residences in the central business district, using crews who also clean sidewalks, empty trash receptacles, and maintain other common areas around downtown
- Provides clean-up services for downtown special events (e.g., Alive After Five, Fourth Street Jazz, Summers on Trade, parades, etc.)

### Bulk Container Collection

- Provides mechanized collection to businesses, churches, non-profit organizations, schools, multi-family residential developments, city departments, and the Housing Authority of Winston-Salem on a schedule designed to meet customers' needs
- Charges its customers annually based on the size of the container and the frequency of collection
- Includes the collection of cardboard from the city's nine drop-off sites and the transportation of the material to a processing facility

### Curbside Collection

- Collects brush every 10-14 working days, except during leaf collection months
- Provides loose leaf collection from November 1 through January 15
- Includes the annual curbside bulky item collection from March through August

### Yard Waste Cart Collection

- Provides weekly curbside collection of containerized yard waste to residential units year round to residents who purchase the 96-gallon rollout carts and pay an annual fee for the service

### Curbside/Multi-Family Recycling

- Administers a contract for weekly residential curbside recycling and multi-family cart collection. Materials collected include: newspaper, magazines, junk mail, telephone books, chipboard, aluminum, steel, all plastics, cardboard, and glass (clear, brown, and green). Contract costs and related program expenditures are covered in full by a transfer from the solid waste disposal fund

### County Recycling

- Administers a contract for the operation of two drop-off sites to serve the unincorporated areas of the county. These costs also are covered by a transfer from the solid waste disposal fund

### Sanitation Code Enforcement

- Enforces the city's sanitation ordinances, including the regulation of refuse storage, improperly containerized yard waste, and illegal distribution of handbills and advertisements

### Sanitation Administration

- Provides leadership, planning, employee safety training and enforcement, and fiscal stewardship for all sanitation programs

# SANITATION

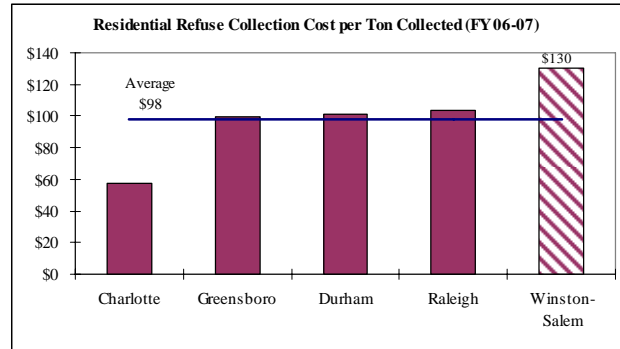
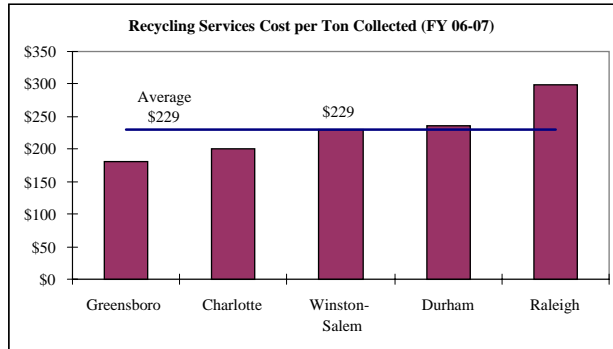
<b>EXPENDITURES BY PROGRAM</b>	<b>Actual FY 06-07</b>	<b>Amended FY 07-08</b>	<b>Adopted FY 08-09</b>	<b>Percent Change</b>
Residential Refuse Collection	\$7,164,397	\$7,631,060	\$7,788,290	2.1%
Central Business District Services	440,313	431,270	434,230	0.7%
Bulk Container Collection	1,718,502	1,855,660	2,082,160	12.2%
Curbside Collection	3,813,644	4,813,670	4,691,700	-2.5%
Yard Waste Cart Collection	908,344	986,610	953,480	-3.4%
Curbside/Multi-Family Recycling	2,157,893	2,493,670	2,736,850	9.8%
County Recycling	116,813	128,190	163,160	27.3%
Sanitation Code Enforcement	145,076	150,570	167,740	11.4%
Sanitation Administration	1,062,211	636,520	646,480	1.6%
<b>Total Expenditures by Program</b>	<b>\$17,527,192</b>	<b>\$19,127,220</b>	<b>\$19,664,090</b>	<b>2.8%</b>

## PERFORMANCE MEASURES AND SERVICE TRENDS

	<b>Actual FY 06-07</b>	<b>Estimated FY 07-08</b>	<b>Projected FY 08-09</b>
<b>Effectiveness</b>			
Limit missed garbage collections to less than 1% per month	0.83%	0.85%	0.88%
Limit missed yard cart collections to less than 1% per month	0.50%	0.50%	0.50%
Achieve a recycling participation rate of 90% of the total number of eligible households	82%	82%	85%
Collect recyclable materials equal to at least 20% of the residential garbage collected	20%	21%	20%
Complete 75% of brush collection routes on time	50%	80%	80%
Complete 75% of leaf collection routes on time	65%	65%	65%
Achieve 60% voluntary participation in the curbside collection program	53%	55%	60%
<b>Efficiency</b>			
Bulk container revenue as percentage of bulk container operating costs	87.7%	84.7%	80.9%
Yard waste cart fee revenue as percentage of yard waste operating costs	79.1%	72.5%	82.2%
<b>Workload</b>			
Tons of garbage collected	49,778	50,000	52,000
Curbside collection points	41,650	71,200	71,300
Tons of yard waste collected	6,610	7,000	6,650
Yard carts serviced weekly	14,179	14,200	14,300
Households serviced each week	73,700	73,700	73,700
Customers receiving bulk container service	1,052	1,078	1,104

# SANITATION

## FY 06-07 N.C. BENCHMARKING PROJECT RESULTS



Source: NC Local Government Performance Measurement Project, *Final Report on City Services for Fiscal Year 2006-2007*, February 2008

<b>EXPENDITURES BY TYPE</b>	<b>Actual</b>	<b>Amended</b>	<b>Adopted</b>	<b>Percent</b>
	<b><u>FY 06-07</u></b>	<b><u>FY 07-08</u></b>	<b><u>FY 08-09</u></b>	<b><u>Change</u></b>
Personnel Expense	\$7,365,730	\$7,668,670	\$7,733,530	0.8%
Supplies and Services	9,066,524	9,517,310	10,101,840	6.1%
Equipment Leasing Expense	1,094,938	1,941,240	1,828,720	-5.8%
<b>Total Expenditures by Type</b>	<b>\$17,527,192</b>	<b>\$19,127,220</b>	<b>\$19,664,090</b>	<b>2.8%</b>
 <b>RESOURCES BY TYPE</b>				
Bulk Container Service Charges	\$1,517,200	\$1,585,800	\$1,704,790	7.5%
Yard Waste Cart Collection Fee	718,700	715,000	784,080	9.7%
Other Charges for Service	45,937	46,490	43,370	-6.7%
Proceeds from Cart Sales	55,099	50,250	49,750	-1.0%
Miscellaneous Revenues	2,568	0	0	N/A
Transfer From Solid Waste Disposal Fund	2,274,684	2,621,860	2,900,010	10.6%
Transfer From Stormwater Fund	1,320,348	1,559,920	1,465,090	-6.1%
Other General Fund Resources	11,592,656	12,547,900	12,717,000	1.3%
<b>Total Resources by Type</b>	<b>\$17,527,192</b>	<b>\$19,127,220</b>	<b>\$19,664,090</b>	<b>2.8%</b>
 <b>Positions</b>				
				<b>Change</b>
Full-Time	215	211	211	0
Part-Time (FTE's)	31.5	18.3	18.3	0

## BUDGET HIGHLIGHTS

### Bulk Container Collection

- The adopted budget includes an average fee increase of 20% for bulk container collection. Rising fuel costs and disposal fees have significantly impacted this program budget in recent years. Since FY 05-06, fuel costs have increased 60% (+\$45,630), while the tipping fee has increased from \$27/ton to \$32/ton (+\$150,000).

# SANITATION

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## BUDGET HIGHLIGHTS – Continued

Without a fee increase, the program fees were expected to cover 78.8% of program costs in FY 08-09. Estimated revenues due to the fee increase allow for a 10% reduction in customers and total \$62,640. With the adopted fee increase, fees are expected to cover 81.8% of program costs.

### Yard Waste Cart Collection

- The adopted budget includes an increase in the annual yard waste cart collection fee, raising the fee from \$50 per cart to \$55 per cart. Since FY 05-06, the tipping fee for yard waste has increased from \$23/ton to \$29/ton, significantly increasing the program's disposal costs (+\$39,900). Fuel costs have also risen, costing an additional \$34,800 in FY 08-09 than in FY 05-06. A fee increase of \$5 is expected to offset 95% of the disposal and fuel cost increases. In FY 07-08, the city served 14,256 carts. Estimated revenues resulting from the fee increase totals \$69,080.

### Curbside/Multi-family Recycling

- Recycling continues to be covered 100% by a transfer from the Solid Waste Disposal Fund. For FY 08-09, the transfer from the Solid Waste Disposal Fund has increased \$278,150, or 10.6%.
- The estimated curbside/multi-family recycling costs includes an allowance for the fuel price surcharge (+\$121,050) and price adjustments based upon the Consumer Price Index.

### Curbside Collection

- The new leaf collection plan, implemented in FY 07-08, targeting one city quadrant at a time, has resulted in staff time savings. The curbside collection budget reflects a reduction in overtime from two hours per day to one hour per day for both full-time employees (-\$36,340) and temporary employees (-\$20,030).
- Despite the \$2 yard waste disposal fee increase, disposal costs for the curbside collection program are expected to decrease (-\$85,580) due to a projected reduction in tonnage.

### County Recycling

- The estimated county recycling cost for FY 08-09 reflects an anticipated increase in recycling (+\$13,220), an allowance for the fuel price surcharge (+\$14,300), and price adjustments based upon the Consumer Price Index.

### Total Sanitation Division Budget

- Nearly 30% of the increase in supplies and services is due to rising fuel costs. Fuel expenses have significantly increased in refuse collection (+\$73,220), bulk container collection (+\$29,530), and curbside collection (+\$25,810).
- The \$2 increase in the state disposal tax fee, combined with an increase in tonnage, has significantly increased disposal costs in refuse collection (+\$342,000), bulk container collection (+\$120,000), and the central business district (+\$5,510). The Utilities Commission is recommending a \$2 fee increase at yard waste facilities to cover operating costs, thereby increasing yard waste cart collection disposal costs (+\$9,250).
- Equipment leasing expenses for FY 08-09 reflect a net decrease of \$112,520 as a result of the completion of payments in FY 07-08 for previously approved equipment (-\$321,580), and the replacement of the following equipment: two rear-loading trucks for refuse collection (+\$64,000), one front-loading truck for bulk container collection (+\$42,000), one ¾ ton utility truck (+\$6,000), three leaf loaders (+\$9,900), two scow dump trucks for curbside collection (+\$30,000), 5,000 voluntary roll-out carts (+\$52,000), and 30 dumpsters (+\$5,160).

## UNFUNDED REQUESTS

Additional leased vehicle for code enforcement

\$5,090

# WATER AND SEWER SYSTEM

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## MISSION STATEMENT

The mission of the Utilities Division is to treat and distribute water to the public and collect and treat the wastewater in a manner that is in compliance with federal and state regulations.

## PROGRAM DESCRIPTIONS

### Water Treatment

- Operates three conventional water treatment plants—the R.W. Neilson plant, the R.A. Thomas plant, and the Northwest plant—with a combined capacity of 97 million gallons per day
- Operates and maintains 14 tanks and eight distribution pump stations for distributing water throughout the distribution system

### Water Distribution

- Provides potable water to residential, commercial, and industrial customers
- Maintains a distribution system consisting of approximately 2,046 miles of water mains
- Installs water connections at the request of customers, services and changes water meters, and performs cut-ons and cut-offs at the request of customers and/or the Revenue Collections Division
- Oversees the backflow prevention program

### Wastewater Collection

- Provides wastewater collection to residential, commercial, and industrial customers
- Maintains a collection system consisting of approximately 1,489 miles of sewer mains
- Installs sewer connections, cleans and repairs sewer mains, clears utility right-of-ways, and constructs sewer mains

### Wastewater Treatment

- Operates two wastewater treatment plants, the Archie Elledge plant and the Muddy Creek plant, and 48 wastewater lift stations with a

combined capacity of 51 million gallons per day

- Manages two programs that impact its treatment facilities:

***Biosolids Disposal:*** Disposes of wastewater treatment plant biosolids in a manner that is considered beneficial reuse. Facilities began operation in FY 07-08 that allowed the focus to shift from land application on farmland to production of a biosolid pellet that can be marketed as a soil amendment or fertilizer filler.

***Industrial Waste Control:*** Regulates commercial and industrial discharges to the wastewater system, determines surcharge bills for commercial and industrial customers, and enforces discharge permits that protect the wastewater treatment facilities

### Utilities Customer Service

- The utility billing and customer service functions are integrated with the City of Winston-Salem's Revenue Collections Division. Utilities Administration coordinates customer service issues with the Revenue Collections Division and serves as liaison between the City-County Utility Commission and the Revenue Collections Division.

### Utilities Administration

- Provides leadership, planning, and fiscal stewardship for the Utilities Division

# WATER AND SEWER SYSTEM

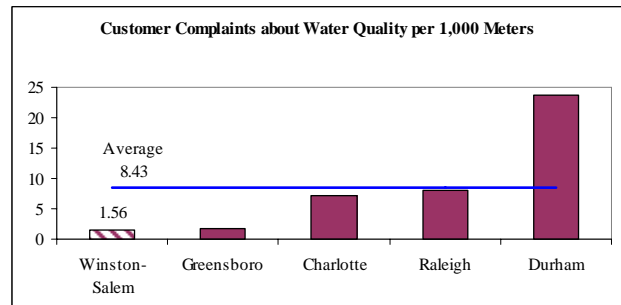
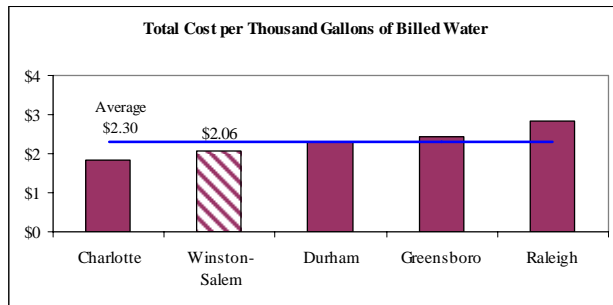
<b>EXPENDITURES BY PROGRAM</b>	<b>Actual FY 06-07</b>	<b>Amended FY 07-08</b>	<b>Adopted FY 08-09</b>	<b>Percent Change</b>
Water Treatment	\$7,525,033	\$8,407,460	\$8,442,080	0.4%
Water Distribution	7,877,183	8,126,170	9,180,790	13.0%
Wastewater Collection	5,267,199	5,323,140	5,140,700	-3.4%
Wastewater Treatment	11,405,072	14,297,410	14,659,020	2.5%
Utilities Customer Service	3,497,490	3,317,910	3,125,950	-5.8%
Utilities Administration	1,580,774	1,614,860	1,514,030	-6.2%
<b>Subtotal</b>	<b>\$37,152,751</b>	<b>\$41,086,950</b>	<b>\$42,062,570</b>	<b>2.4%</b>
Non-Program Debt Service	\$21,004,803	\$21,601,860	\$25,345,690	17.3%
<b>Total Expenditures by Program</b>	<b>\$58,157,554</b>	<b>\$62,688,810</b>	<b>\$67,408,260</b>	<b>7.5%</b>

## PERFORMANCE MEASURES AND SERVICE TRENDS

	<b>Actual FY 06-07</b>	<b>Estimated FY 07-08</b>	<b>Projected FY 08-09</b>
<b>Effectiveness</b>			
Maintain 100% compliance with federal and state drinking water quality standards	100%	100%	100%
Respond to 100% of sewage overflows within two hours as required by the State Clean Water Act	100%	100%	100%
Receive zero federal and state violations at wastewater treatment plants (returning clean water back to rivers and streams)	1	1	0
<b>Efficiency</b>			
Meet 100% of average daily water demand throughout water system	100%	100%	100%
Meet 100% of average daily sewer demand throughout sanitary sewer system	100%	100%	100%
Collect and treat 100% of wastewater throughout sanitary sewer system (minimize back-ups and overflows)	99.9961%	99.9985%	99.9990%
<b>Workload</b>			
Total miles of water distribution lines maintained	2,035	2,055	2,075
Total miles of wastewater collection lines maintained	1,481	1,500	1,520
Ratio of average daily water demand to system capacity	41.9%	42%	42.8%
Ratio of average daily sewer demand to system capacity	65.8%	63.3%	65.0%
Number of meters read annually	706,140	719,040	731,940

# WATER AND SEWER SYSTEM

## FY 06-07 N.C. BENCHMARKING PROJECT RESULTS



Source: NC Local Government Performance Measurement Project, *Final Report on City Services for Fiscal Year 2006-2007*, February 2008

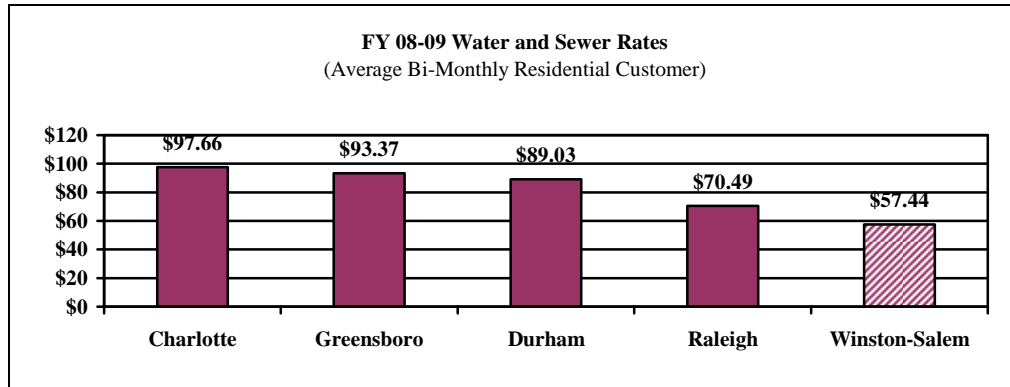
<b>EXPENDITURES BY TYPE</b>	<b>Actual FY 06-07</b>	<b>Amended FY 07-08</b>	<b>Adopted FY 08-09</b>	<b>Percent Change</b>
Personnel Expense	\$15,480,574	\$17,440,770	\$17,510,810	0.4%
Supplies and Services	21,653,498	23,605,780	24,475,500	3.7%
<b>Subtotal</b>	<b>\$37,134,073</b>	<b>\$41,046,550</b>	<b>\$41,986,310</b>	<b>2.3%</b>
Capital Outlay	\$0	\$16,000	\$5,300	-66.9%
Debt and Lease Expense	21,004,803	21,601,860	25,345,690	17.3%
Program Support for Vector Control	18,678	24,400	24,000	-1.6%
Program Support for Safety Manager	0	0	46,960	N/A
<b>Total Expenditures by Type</b>	<b>\$58,157,554</b>	<b>\$62,688,810</b>	<b>\$67,408,260</b>	<b>7.5%</b>
<b>RESOURCES BY TYPE</b>				
Water Charges	\$28,723,810	\$31,036,390	\$35,040,410	12.9%
Sewer Charges	22,215,852	23,702,410	24,821,720	4.7%
Charges for Service	6,172,475	5,617,150	4,875,710	-13.2%
Assessments to Benefit Property	848,746	1,250,000	1,300,000	4.0%
Interest Income	9,481,369	1,700,000	1,700,000	0%
Miscellaneous Revenues	158,745	0	0	N/A
<b>Total Resources by Type</b>	<b>\$67,600,997</b>	<b>\$63,305,950</b>	<b>\$67,737,840</b>	<b>7.0%</b>
Added to Capital Reserves	\$9,443,443	\$617,140	\$329,580	-46.6%
<b>Positions</b>				<b>Change</b>
Full-Time	314	327	332	+5
Part-Time (FTE's)	7.36	7.885	4.885	-3.0

# WATER AND SEWER SYSTEM

## BUDGET HIGHLIGHTS

- On May 12, 2008, the City-County Utility Commission recommended a FY 08-09 budget for the water and sewer system that includes rate increases of 7% for water and 9% for sewer, to be effective October 1, 2008. The rate increases would generate sufficient revenues to meet the net operating income-to-debt service ratio requirements of recently approved revenue bonds. As part of the adopted budget, debt service on revenue bonds is increased \$3,826,110 due to the issuance of new bonds in recent years. The rate increase also would support the major renovation or replacement of water and sewer treatment facilities and would enable the capital program to keep pace with the rate of inflation in the construction industry. The capital budget for FY 08-09 totals \$78.7 million.

Even with these increases, Winston-Salem’s rates would continue to be lower than those of other major systems in North Carolina, as noted in the chart below.



- On June 16, 2008, the City Council adopted the FY 08-09 budget, which included reductions in the water and sewer system budget to reflect a “continuation” budget that maintains current service levels. The reductions, which total \$419,770, include the following:
  - Deletion of four new positions: a water servicer position and one of the requested sewer line cleaning crews, which included three positions (-\$234,200)
  - Elimination of all new equipment requests, which included equipment for a second shift first response crew for sewer overflows (-\$143,640)
  - Other reductions in expenses, primarily in temporary services and vehicle maintenance (-\$41,930)

These reductions amount to a 1% decrease in the sewer rate (-\$419,770). Any adjustments to the rates would require the approval of the City-County Utility Commission.

- ★ Excluding debt service on revenue bonds and capital lease payments, the adopted FY 08-09 budget increases 2.4%, primarily due to increases in Water Distribution and Wastewater Treatment. Increases in these areas are partially offset by reductions in Wastewater Collection, Utilities Customer Service, and Utilities Administration.

### Water Distribution

- The adopted budget for Water Distribution is increased \$1,054,620, or 13%, primarily due to a reorganization in Utilities Construction and Maintenance, the addition of three positions, and increased expenditures on contractual services.

# WATER AND SEWER SYSTEM

## BUDGET HIGHLIGHTS - Continued

- The reorganization of Utilities Construction and Maintenance consolidated technical positions such as engineers and engineering technicians into one area and created two cross-trained working groups that are assigned to the eastern and western halves of the county. As a result, the adopted budget for Water Distribution reflects a net increase of six positions (+\$358,900 in salaries and benefits).
- The adopted budget includes the addition of two full-time meter reader positions and a full-time water servicer position. Over the last seven years, the number of customers has grown by over 15,000 accounts. The Utilities Division currently uses temporary personnel to keep up with the workload. The addition of the meter reader positions would stabilize turnover and enable the operation to maintain a more consistent meter reading cycle. The addition of the water servicer position would enable the division to meet its workload demands related to service cut-ons and cut-offs, installation of new meters, meter repairs, and meter change-outs. The cost of the three positions totals \$89,000 in salaries and benefits. This cost would be offset in part by the deletion of two part-time meter reader positions and one part-time water servicer position (-\$60,410).
- Expenditures on contractual services are increased by \$696,000 for water line repairs, meter change-outs, backflow testing, and GIS consulting.
- The adopted budget also includes the deletion of a full-time civil engineer position to provide funding for a safety manager in the Risk Management Division of the Financial Management Services Department (-\$60,990). The adopted budget includes a transfer to the general fund to cover 100% of the cost of the safety position (+\$46,960).

### Wastewater Collection

- The adopted budget includes the addition of three full-time positions to create a new sewer line cleaning crew that would enable the division to clean more sewer mains each year. Under its federal permit, the Utilities Division must perform preventive maintenance on 10% of the system each year. These crews, along with the use of contractual services, would enable the division to meet this requirement. The cost of the three positions—a crew leader, a light equipment operator, and a maintenance worker—totals \$83,810 in salaries and benefits.

### Utilities Customer Service

- Expenditures for Utilities Customer Service are decreased \$191,960, or 5.8%, primarily due to a reduction in the charge by the Revenue Division for collection services. This reduction is based on a reallocation of more billing costs to Stormwater Management and a decrease in information systems charges.

### Utilities Administration

- Expenditures for Utilities Administration are decreased \$100,830, or 6.2%, primarily due to a reduction in information systems charges resulting from the completion of information technology projects in FY 07-08.

### FY 07-08 Year-End Outlook

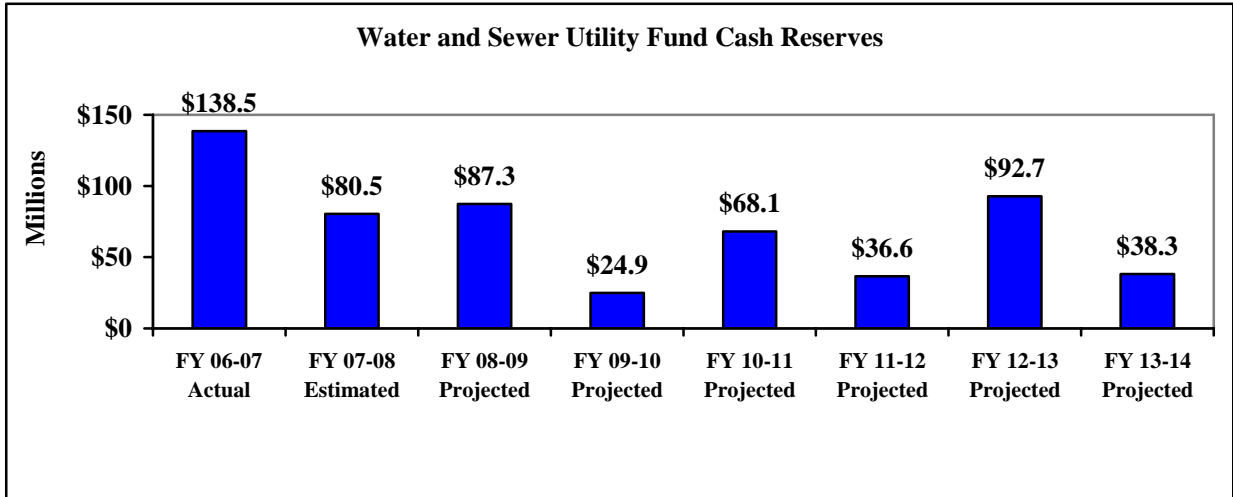
- The following table provides estimated year-end revenues and expenditures for the water and sewer utility fund.

	<b>Budgeted</b>	<b>Estimated</b>
	<b><u>FY 07-08</u></b>	<b><u>FY 07-08</u></b>
Operating Revenues	\$61,605,950	\$62,657,546
Operating Expenditures	41,062,550	39,028,065
<b>Operating Income</b>	<b>\$20,543,400</b>	<b>\$23,629,481</b>
Investment Income	1,700,000	4,278,012
Debt and Lease Expenses	(21,601,860)	(21,533,619)
Program Support for Vector Control	(24,400)	(24,400)
<b>Net Income</b>	<b><u>\$617,140</u></b>	<b><u>\$6,349,474</u></b>

# WATER AND SEWER SYSTEM

## BUDGET HIGHLIGHTS - Continued

- The following chart provides the outlook for the water and sewer utility fund's cash reserves. The outlook assumes future bond issues of \$100 million in FY 08-09, \$80 million in FY 10-11, and \$100 million in FY 2013. The outlook also assumes annual rate increases of 7% for water and 7% to 9% for sewer.



# SOLID WASTE DISPOSAL

## MISSION STATEMENT

The mission of the Solid Waste Disposal Division is to provide, as an enterprise, environmentally sound and cost-effective means of integrated solid waste management and disposal for current and future wastes generated in Forsyth County.

## PROGRAM DESCRIPTIONS

### Municipal Solid Waste Disposal

- Operates a state-permitted, active municipal solid waste landfill at Hanes Mill Road
- Maintains closed sanitary landfills on Ebert Street, Overdale Road, and Link Road

### Construction and Demolition Waste Disposal

- Operates a state-permitted, active construction and demolition landfill for construction and demolition materials on Old Salisbury Road
- Maintains the closed Overdale Landfill facility

### Leaf Composting and Yard Waste Processing

- Operates a leaf transfer facility on Shorefair Drive and a leaf compost facility located off Reynolds Park Road
- Operates two yard waste processing facilities—one located off Overdale Road and the other located off Highway 65 in the Forum 52 Industrial Park

### Household Hazardous Waste Management

- Provides for the recycling or disposal of hazardous materials including paints, pesticides, oxidizers, used oil, and solvents

### Disposal of Other Wastes

- Provides recycling of “white goods” (refrigerators, stoves, etc.) and tires through private contractors

### Financing for City and County Residential Recycling

- Provides financing for Winston-Salem and Forsyth County residential recycling efforts

### Solid Waste Disposal Administration

- Provides leadership, planning, workplace safety training and enforcement, and fiscal stewardship for the Solid Waste Disposal Division

<b>EXPENDITURES BY PROGRAM</b>	<b>Actual</b>	<b>Amended</b>	<b>Adopted</b>	<b>Percent</b>
	<b><u>FY 06-07</u></b>	<b><u>FY 07-08</u></b>	<b><u>FY 08-09</u></b>	<b><u>Change</u></b>
Municipal Solid Waste Disposal	\$5,656,967	\$5,590,740	\$5,531,810	-1.1%
Construction and Demolition Waste Disposal	1,669,374	1,822,950	1,803,220	-1.1%
Leaf Composting/Yard Waste Processing	862,361	1,427,690	797,880	-44.1%
Financing for Residential Recycling	2,338,642	3,049,490	3,372,240	10.6%
Solid Waste Disposal Administration	464,069	495,460	476,990	-3.7%
<b>Subtotal</b>	<b>\$10,991,413</b>	<b>\$12,386,330</b>	<b>\$11,982,140</b>	<b>-3.3%</b>
 Non-Program Debt Service	 \$2,195,344	 \$2,416,710	 \$2,687,400	 11.2%
 <b>Total Expenditures by Program</b>	 <b>\$13,186,757</b>	 <b>\$14,803,040</b>	 <b>\$14,669,540</b>	 <b>-0.9%</b>

# SOLID WASTE DISPOSAL

## PERFORMANCE MEASURES AND SERVICE TRENDS

	Actual FY 06-07	Estimated FY 07-08	Projected FY 08-09
<b>Effectiveness</b>			
% of waste diverted from municipal solid waste landfill	12%	10%	11%
Receive zero notice of violations for all disposal facilities	0	0	0
Number of citizen complaints received for all disposal facilities	3	2	3
<b>Efficiency</b>			
% of municipal solid waste landfill airspace consumed to date <sup>1</sup>	26%	37%	49%
% of Construction and Demolition landfill airspace consumed to date <sup>2</sup>	56%	63%	70%
Overall tipping fee revenues as % of operating costs	92%	86%	85%
<b>Workload</b>			
Tons of municipal solid waste disposed	276,116	261,550	261,550
Tons of construction and demolition debris disposed	101,390	90,726	90,726
Tons of yard waste/wood waste processed	26,594	21,007	21,007
Tons of leaves processed	14,996	12,227	14,058
Tons of household hazardous waste managed	195	199	199
Tons of tires managed	6,374	6,042	6,371
Tons of appliances managed	995	1,011	1,011
Tons of waste recycled by Winston-Salem and Forsyth County programs	10,162	10,850	10,610
Tons of waste disposed per capita in Forsyth County	1.14	1.05	1.03

<sup>1</sup> Actual FY 06-07 data based on May 2007 Hanes Landfill Cell 1 Airspace Report

<sup>2</sup> Actual FY 06-07 data based on February 2007 OSR Airspace Management Report

	Actual <u>FY 06-07</u>	Amended <u>FY 07-08</u>	Adopted <u>FY 08-09</u>	Percent <u>Change</u>
<b>EXPENDITURES BY TYPE</b>				
Personnel Expense	\$1,634,223	\$1,863,160	\$1,837,580	-1.4%
Supplies and Services	7,002,505	7,901,310	7,244,550	-8.3%
<b>Subtotal</b>	<b>\$8,636,728</b>	<b>\$9,764,470</b>	<b>\$9,082,130</b>	<b>-7.0%</b>
Capital Outlay	\$80,000	\$0	\$0	N/A
Debt and Lease Expense	2,195,344	2,416,710	2,687,400	11.2%
Transfer to General Fund for Recycling	2,274,684	2,621,860	2,900,010	10.6%
<b>Total Expenditures by Type</b>	<b>\$13,186,757</b>	<b>\$14,803,040</b>	<b>\$14,669,540</b>	<b>-0.9%</b>

# SOLID WASTE DISPOSAL

<b>RESOURCES BY TYPE</b>	<b>Actual FY 06-07</b>	<b>Amended FY 07-08</b>	<b>Adopted FY 08-09</b>	<b>Percent Change</b>
Service Charges	\$8,525,267	\$9,105,790	\$8,013,590	-12.0%
Charges to City Departments	3,545,319	3,598,320	3,282,960	-8.8%
Proceeds from Sale of Recyclables	272,285	267,740	430,710	60.9%
North Carolina Department of Revenue	474,303	467,760	500,290	7.0%
Other Resource Recovery	174,751	149,950	206,800	37.9%
Rentals	38,130	35,800	35,800	0%
Miscellaneous Revenues	36,688	0	0	N/A
Interest Income	3,034,065	700,000	700,000	0%
Proceeds from Sale of Surplus Property	314,366	0	0	N/A
Fund Balance Appropriation	0	477,680	1,499,390	213.9%
<b>Total Resources by Type</b>	<b>\$16,415,174</b>	<b>\$14,803,040</b>	<b>\$14,669,540</b>	<b>-0.9%</b>
Added to Capital Reserves	\$3,228,417	\$0	\$0	N/A
<b>Positions</b>				<b>Change</b>
Full-Time	34	35	35	0
Part-Time (FTE's)	6.6	7.6	8.8	+1.2

## BUDGET HIGHLIGHTS

- Excluding debt and lease expense, the adopted FY 08-09 budget for Solid Waste Disposal is decreased by \$133,500, or 0.9%, primarily due to decreased expenses for leaf composting and yard waste processing.

### Financing the City's Curbside Recycling Program

- On May 12, 2008, the City-County Utility Commission recommended a budget for Solid Waste Disposal that reduced the transfer to the general fund for the city's curbside recycling program by 50% (-\$1,368,430). The Commission's recommended budget also includes 50% of the revenue from recycling in the solid waste disposal fund, for a net cost of \$1,188,430. The Commission also recommended reducing the funding for the city's program to 25% of the cost in FY 09-10 and FY 10-11 and eliminating the funding in FY 11-12.
- The City Manager's adopted budget continues to fund 100% of the city's curbside recycling program from the solid waste disposal fund. The transfer to the general fund is increased \$243,180, or 9.8%, due to inflation adjustments and the addition of a fuel surcharge to the recycling contract.

### County-Wide Recycling Programs

- The adopted budget continues to fund the county-wide recycling programs, which include three drop-off sites, school recycling, household hazardous waste collection, scrap tire disposal, and appliance recycling (\$1,162,010). The revenues from the sale of the recyclables collected through these programs also are included in the adopted budget (\$170,710).

### Leaf Composting/Yard Waste Processing

- The adopted budget for leaf composting and yard waste processing is decreased \$629,810, or 44.1%, due to reduced utilization of the Forum 52 Yard Waste Facility. The actual tonnage processed at the facility in FY

# SOLID WASTE DISPOSAL

## BUDGET HIGHLIGHTS – Continued

07-08 was lower than expected, so the Solid Waste Disposal Division decreased FY 08-09 expenditures for the yard waste processing contract (-\$312,520). The reduction in yard waste processing costs also reflects shifting the contract costs for leaf processing to the Sanitation Division’s budget (-\$283,390). Previously, the Solid Waste Disposal Division paid the contract costs and charged the Sanitation Division a disposal fee. In the adopted budget, the leaf processing contract would be a direct cost in the Sanitation Division’s budget.

### Tipping Fees

- The Utility Commission approved the following adjustments to the tipping fees at its disposal facilities:

Facility	Current Fee	New Fee	Increase
Hanes Mill Road Landfill			
Base Rate	\$34/ton	\$34/ton	\$0
Large Volume Rate	\$30/ton	\$30/ton	\$0
Yard Waste Facilities	\$27/ton	\$29/ton	+\$2
Old Salisbury Road C&D Landfill	\$28/ton	\$28/ton	\$0

General usage tipping fees for Hanes Mill Road Landfill and Old Salisbury Road Construction and Demolition Landfill remain unchanged. However, at both of these facilities, the new \$2 state disposal tax will be added to each ton of waste, effective July 1, 2008.

The \$2 increase for the Overdale Road and Forum 52 Yard Waste Facilities will cover operating costs.

Overall, tipping fee revenues are budgeted to decrease \$1,407,560, or 11.1%. The Solid Waste Disposal Division is projecting decreased tonnage at all of its facilities due to a slowing economy, the decline in construction activity, and the possible diversion of waste to other disposal facilities.

The following table compares the tipping fees for public disposal facilities in six major North Carolina cities.

**Solid Waste Tipping Fee Comparison of Public Facilities**

<u>Jurisdiction</u>	<u>Municipal Solid Waste</u>	<u>Construction and Demolition</u>
Durham (Transfer Station)	\$41.50	N/A
High Point	\$38.00	N/A
Charlotte (Mecklenburg County)	\$28.55	\$39.00
Greensboro	\$38.00	\$27.50
Raleigh (Wake County)	\$32.00	N/A
Winston-Salem	\$36.00 / \$32.00	\$30.00

1. Durham, High Point, and Wake County do not operate construction and demolition landfills.
2. Mecklenburg County’s waste is disposed at a privately operated landfill under contract for the indicated price.

### Total Departmental Budget

- The adopted budget for debt and lease expense is increased \$270,690, or 11.2%, primarily due to additional lease payments for the following equipment: two compactors, an excavator, and a spray unit and storage for an alternative landfill cover.

# SOLID WASTE DISPOSAL

## BUDGET HIGHLIGHTS – Continued

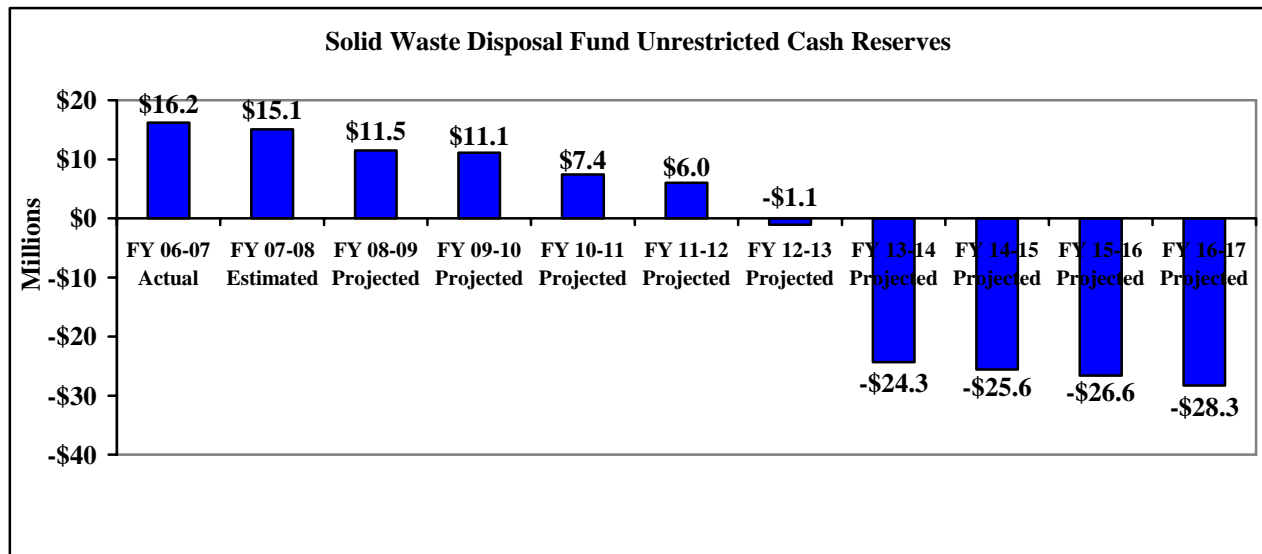
- Despite the overall decrease in the Solid Waste Disposal budget, the estimated decline in tipping fee revenues requires an increased use of fund balance of \$1,021,710, or 213.9%. The chart at the bottom of this page provides the long-term outlook for unrestricted cash reserves in the solid waste disposal fund.

### FY 07-08 Year-End Outlook

- The following table provides estimated year-end revenues and expenditures for the solid waste disposal fund.

	<b>Budgeted FY 07-08</b>	<b>Estimated FY 07-08</b>
Operating Revenues	\$13,157,600	\$12,161,490
Operating Expenditures	9,764,470	9,380,856
<b>Operating Income</b>	<b>\$3,393,130</b>	<b>\$2,780,634</b>
Intergovernmental Revenue	467,760	494,210
Investment Income	700,000	1,234,343
Debt and Lease Expenses	(2,416,710)	(2,416,710)
Transfer to General Fund	(2,621,860)	(2,621,860)
<b>Net Loss</b>	<b><u>(\$477,680)</u></b>	<b><u>(\$529,383)</u></b>

- The following chart provides a projection of the unrestricted cash reserves for the solid waste disposal fund. The unrestricted reserves provide resources for operations, future landfill cell construction, the development of new disposal facilities, and other capital improvements. This outlook assumes that the solid waste disposal fund would continue to fund 100% of the city’s curbside recycling program. It also assumes \$1 increases at all disposal facilities every two years. According to this outlook, unrestricted reserves would be exhausted in FY 12-13.

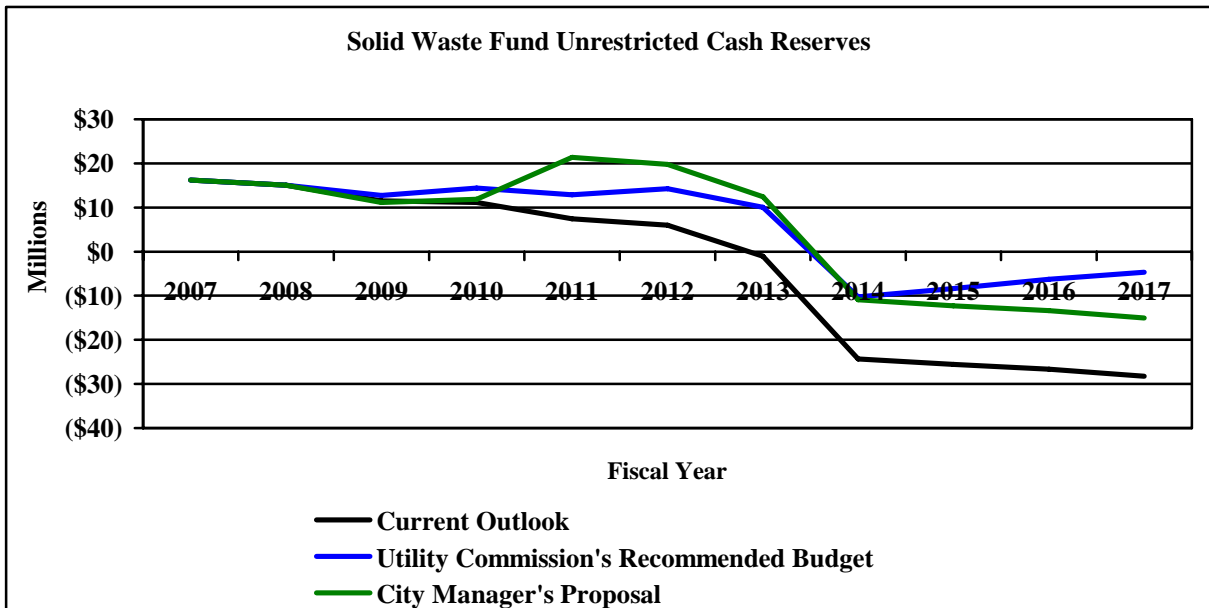


# SOLID WASTE DISPOSAL

## BUDGET HIGHLIGHTS – Continued

- The City Manager has presented additional options for extending the unrestricted reserves in the solid waste disposal fund. These options include financing \$24 million in capital improvements through the issuance of special obligation bonds, eliminating the discount tipping fee at Hanes Landfill, and increasing the tipping fee at the Old Salisbury Road Construction and Demolition Landfill. The increases in the tipping fees are based on recommendations from a rate study that was prepared by a consultant in 2006. The consultant concluded that the increased fees would not affect the competitiveness of these facilities. Based on this conclusion, the City Manager’s proposal does not assume any loss in tonnage from the increased tipping fees.

The following chart compares the impact of the City Manager’s adopted options and the Utility Commission’s recommended budget.



Both the City Manager’s proposal and the Utility Commission’s recommended budget extend the unrestricted reserves in the solid waste disposal fund an additional year to FY 13-14.

# STORMWATER MANAGEMENT

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## MISSION STATEMENT

The mission of the Stormwater Management Program is to restore, protect, and preserve the surface waters within the City of Winston-Salem and to maintain, repair, map, and evaluate drainage systems within the street right-of-ways.

## PROGRAM DESCRIPTIONS

### Stormwater Monitoring and Administration

- Manages the day-to-day operations of the Stormwater Management Program
- Implements the requirements of the city’s Municipal Separate Storm Sewer System (MS4) permit
- Performs watershed master planning by developing maps and inventories of the entire drainage system within the city
- Monitors stormwater run-off as part of the program’s efforts to improve water quality
- Provides educational programming to increase public awareness of water quality issues

- Monitors stormwater billings for residential and non-residential customers in conjunction with the city’s Revenue Division
- Reviews and approves stormwater management plans

### Drainage Maintenance

- Repairs, replaces, and upgrades the city’s drainage system within street right-of-ways
- Provides for drainage system repairs on private property through the 70/30 program in which the city covers 70% of the cost for qualified projects
- Removes debris from culverts and bridge abutments with many streams and creeks

<b>EXPENDITURES BY PROGRAM</b>	<b>Actual</b>	<b>Amended</b>	<b>Adopted</b>	<b>Percent</b>
	<b><u>FY 06-07</u></b>	<b><u>FY 07-08</u></b>	<b><u>FY 08-09</u></b>	<b><u>Change</u></b>
Monitoring and Administration				
Administration	\$1,401,849	\$1,205,720	\$1,892,730	57.0%
Water Quality Monitoring	450,495	958,800	971,960	1.4%
Support for Seasonal Leaf Collection	1,339,026	1,559,920	1,465,090	-6.1%
<b>Subtotal</b>	<b>\$3,191,370</b>	<b>\$3,724,440</b>	<b>\$4,329,780</b>	<b>16.3%</b>
 Drainage Maintenance	 \$2,622,265	 \$2,804,950	 \$2,833,150	 1.0%
 <b>Total Expenditures by Program</b>	 <b>\$5,813,635</b>	 <b>\$6,529,390</b>	 <b>\$7,162,930</b>	 <b>9.7%</b>

# STORMWATER MANAGEMENT

## PERFORMANCE MEASURES AND SERVICE TRENDS

	Actual FY 06-07	Estimated FY 07-08	Projected FY 08-09
<b>Effectiveness</b>			
Achieve 91% collection rate of revenues for non-residential customers	90%	91%	91%
Achieve 92% collection rate of revenues for residential customers	91%	91%	92%
Respond to 100% of illicit discharge complaints by citizens within 24 hours	100%	100%	100%
Complete 100% of compliance schedules for water quality resolutions within 30 days	100%	100%	100%
Complete 100% of plan reviews within 10 days of receipt	100%	100%	95%
Provide 30 federally required educational programs a year	20	30	30
Ensure 100% of stormwater devices are built in accordance with approved plans	100%	96%	100%
<b>Efficiency</b>			
Cost per water quality sample	\$8.63	\$9.00	\$9.25
Street sweeping cost per lane mile	\$60.00	\$63.59	\$65.50
Average hours per plan review	24	24	28
<b>Workload</b>			
Number of pollution prevention inspections completed	14	14	18
Number water quality samples taken	1850	1850	1850
Number of Best Management Practices facilities inspected	197	200	210
Average number of Best Management Practices compliance issues	4	4	2
Number of catch basins cleaned	1359	1500	1525
Lineal feet of pipe installed	N/A	2500	2500
Number of new and redevelopment project plans reviewed yearly	60	60	65

<b>EXPENDITURES BY TYPE</b>	<b>Actual FY 06-07</b>	<b>Amended FY 07-08</b>	<b>Adopted FY 08-09</b>	<b>Percent Change</b>
Personnel Expense	\$1,714,385	\$2,091,900	\$2,174,660	4.0%
Supplies and Services	2,482,082	2,484,670	3,134,380	26.1%
<b>Subtotal</b>	<b>\$4,196,467</b>	<b>\$4,576,570</b>	<b>\$5,309,040</b>	<b>16.0%</b>
Capital Outlay	\$0	\$18,600	\$18,600	0%
Debt and Lease Expense	278,142	349,900	346,200	-1.1%
Transfer to General Fund (Leaf Collection)	1,339,026	1,559,920	1,465,090	-6.1%
Transfer to General Fund (Vector Control)	0	24,400	24,000	-1.6%
<b>Total Expenditures by Type</b>	<b>\$5,813,635</b>	<b>\$6,529,390</b>	<b>\$7,162,930</b>	<b>9.7%</b>

# STORMWATER MANAGEMENT

<b>RESOURCES BY TYPE</b>	<b>Actual FY 06-07</b>	<b>Amended FY 07-08</b>	<b>Adopted FY 08-09</b>	<b>Percent Change</b>
Stormwater Fees: Residential	\$3,042,860	\$3,735,660	\$3,735,660	0%
Stormwater Fees: Non-Residential	3,444,440	4,865,400	4,865,400	0%
Private Drainage Projects	36,000	25,000	45,000	80.0%
Miscellaneous Revenues	147,918	0	0	0%
Interest Income	85,018	0	0	0%
Fund Balance Appropriation	0	0	0	0%
<b>Total Resources by Type</b>	<b>\$6,756,236</b>	<b>\$8,626,060</b>	<b>\$8,646,060</b>	<b>0.2%</b>
Added to Capital Reserve	\$942,601	\$2,096,670	\$1,483,130	-29.3%
<b>Positions</b>				<b>Change</b>
Full-Time	43	47	47	0

## BUDGET HIGHLIGHTS

In FY 07-08, the Stormwater Management Program implemented a fee increase due to federally mandated responsibilities and capital needs. Residential customers pay one of four rates that are tiered, based on area of impervious surface: \$51/year for 2000 square feet or less, \$54 for 2,001-4,000, \$81 for 4,001-6,000, and \$108 for 6,001+. With the increase, residential property owners pay an additional \$3 every two months, or \$18 per year. Non-residential owners are billed at \$831 per impervious acre. While these fees provide resources to cover annual operating expenses, they also fund the capital cost to update the city's inventory of public and private drainage systems. Also, the fee increases generate revenues to pay for the remaining basin studies.

### Monitoring and Administration

- Personnel expenditures reflect an increase of \$82,760, or 3.9% primarily as a result of pay adjustments related to the one-third position classification study and up to 3.0% pay increase budgeted organization wide.
- Supplies and services reflect a net increase of \$649,710, primarily due to an increase in revenue collection services (+\$395,770), due to conversion of new UM system, indirect cost allocation (+\$113,630), and city hall rental space (+\$33,540).
- The transfer to the general fund of \$1,489,090 includes \$1,465,090 to cover the cost of the city's seasonal leaf collection program and \$24,000 for the city's vector control program. The decrease in the cost of the leaf collection program is primarily due to reduction in overtime.

### Drainage Maintenance

- Supplies and services expenditures include an increase in supplies costs for contracted services (+\$50,000), and fuel consumption (+\$20,560).
- The adopted budget includes debt and lease expenses for replacement of the following equipment: one remote roller (+\$7,650), one compressor (+\$6,375), and one single axle dump truck (+\$19,125), coupled with the completion of payments for previously approved equipment.

### 2009-2014 Capital Plan

- The FY 08-09 capital budget will include \$971,340 in pay-as-you-go funding for additional infrastructure improvements, municipal stormwater pollution prevention plans, environmental studies, and removal of flood ravaged property. In FY 07-08 the city and Piedmont Triad Research Park (PTRP) agreed to complete an engineering design to install stormwater management controls and restoration of 2,100 linear feet of Bath Branch in downtown Winston-Salem that will promote clean air and water and protection of natural resources.

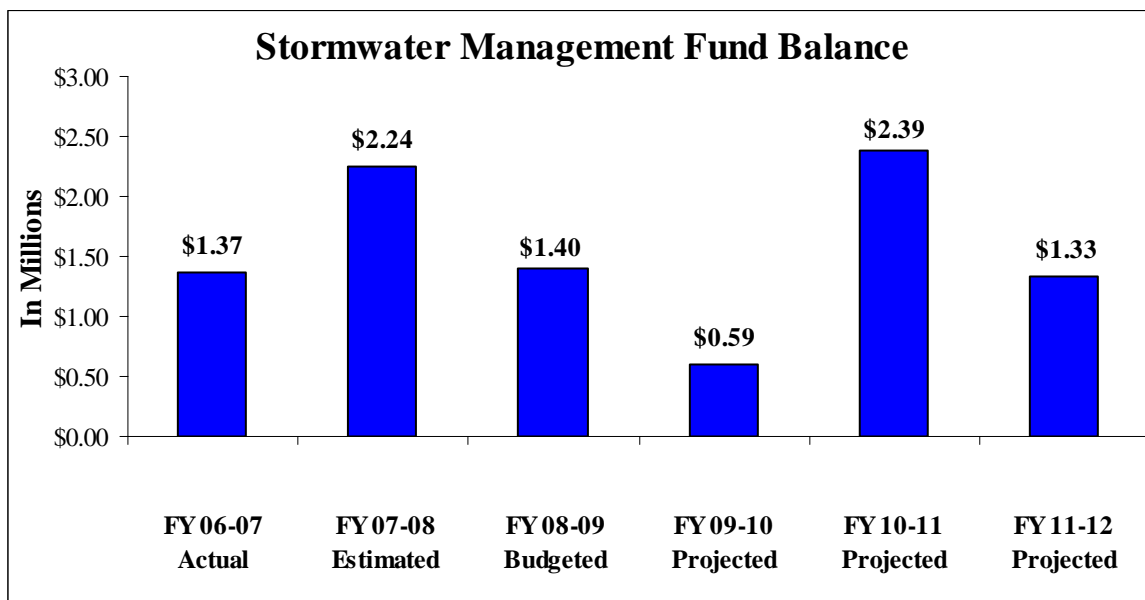
# STORMWATER MANAGEMENT

## BUDGET HIGHLIGHTS - Continued

The total cost of the project is estimated at \$16,883,460. The city will pay for two-thirds of the cost of construction and PTRP will pay for one-third cost of construction. Funding for the project includes the following grants: Clean Water Trust Fund (+\$3,000,000), and Federal and State Tribal Assistance Grant (+\$3,000,000). In February, 2008, the City Council indicated interest to assist citizens with flood ravaged properties. The city will provide 70% of the local cost to assist citizens who wish to participate in the Federal Emergency Management Agency grant funding programs which remove properties from the 100 year floodplain.

### Fund Balance Projection

- The following chart provides a projection of stormwater management fund balance. This outlook assumes future bond issues of \$14.8 million in FY 10-11 and 5% rate increases every other year starting in FY 10-11.



- The following table provides budgeted FY 07-08 revenues and expenditures. In FY 07-08, operating revenues were less than budgeted, while expenditures were over budget. Estimated net income for the year totals \$868,703, yielding a net fund balance of \$2,243,568.

	<u>Budget</u>	<u>Estimated</u>
Operating Revenues	\$8,626,060	\$7,500,000
Less: Operating Expenditures	<u>4,576,570</u>	<u>4,761,363</u>
<b>Operating Income</b>	<b>\$4,049,490</b>	<b>\$2,738,637</b>
Investment Income	\$0	\$60,000
Debt and Lease Expense	(368,500)	(346,014)
Transfer to General Fund	<u>(1,584,320)</u>	<u>(1,583,920)</u>
<b>Net Income</b>	<b>\$2,096,670</b>	<b>\$868,703</b>
Beginning Cash Balance	1,302,370	1,374,865
<b>Net Fund Balance</b>	<b><u>\$3,399,040</u></b>	<b><u>\$2,243,568</u></b>

# STORMWATER MANAGEMENT

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## UNFUNDED REQUESTS

Stormwater maintenance drainage crew and vehicle	\$333,460
Stormwater post construction ordinance crew *	181,530

\* The Public Works Committee of the City Council is currently considering approval of a Post Construction Stormwater Control Ordinance. Should the ordinance be approved, additional staff may be needed to review and approve plans, conduct as-built inspections, conduct maintenance inspections, review annual reports, and coordinate and oversee repairs to ponds and deal with homeowner's associations on general compliance issues. Staff will monitor workload after adoption of the ordinance, and recommend additional staffing as needed.

# CEMETERIES

## MISSION STATEMENT

The mission of the city's Cemetery Division is to respond professionally and efficiently to the requests for cemetery-related services, to provide the requested services and products in a timely and cost-effective manner and to maintain the cemetery properties at or above the expected standard of the community and the consumer.

## PROGRAM DESCRIPTION

- The Cemetery Division provides year-round maintenance for two city-owned cemeteries - New Evergreen, a 48-acre cemetery located on New Walkertown Road and Woodland, a 27-acre cemetery located at the intersection of Reynolds Boulevard and Indiana Avenue – while daily preparing individual gravesites for interment and routinely installing markers and monuments at the request of property owners. The Division maintains historical records of all interments in city-owned cemeteries and ensures financial accountability for cemetery operations and perpetual care.



## PERFORMANCE MEASURES AND SERVICE TRENDS

	Actual FY 06-07	Estimated FY 07-08	Projected FY 08-09
<b>Effectiveness</b>			
Resolve 95% of service requests/complaints within 24 hours	N/A	95%	95%
Maintain a revenue collection rate of 98% or better	99%	99%	99%
<b>Workload</b>			
Number of interments	301	297	300
Number of grave maintenance complaints	16	12	10
Total graves (capacity) at Woodland	14,417	14,417	14,417
Number of single graves unsold at Woodland	1,190	1,156	1,142
Single graves sold per year at Woodland	34	14	10
Total graves (capacity) at New Evergreen	32,278	32,278	32,278
Number of single graves unsold at New Evergreen	1,582	1,342	1,107
Single graves sold per year at New Evergreen	232	240	235

	Actual FY 06-07	Amended FY 07-08	Adopted FY 08-09	Percent Change
<b>EXPENDITURES BY TYPE</b>				
Personnel Expense	\$275,504	\$307,110	\$297,200	-3.2%
Supplies and Services	276,915	249,940	251,830	0.8%
Debt and Lease Expense	31,924	32,760	25,450	-22.3%
Transfer for Perpetual Care	16,700	0	0	N/A
<b>Total Expenditures by Type</b>	<b>\$601,044</b>	<b>\$589,810</b>	<b>\$574,480</b>	<b>-2.6%</b>

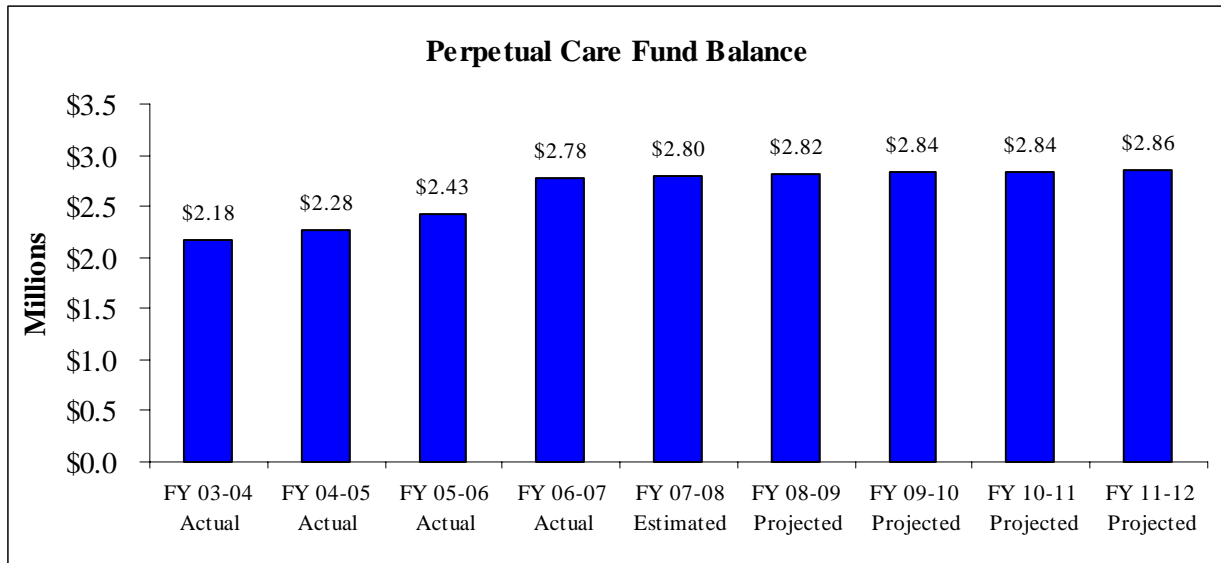
# CEMETERIES

<b>RESOURCES BY TYPE</b>	<b>Actual FY 06-07</b>	<b>Amended FY 07-08</b>	<b>Adopted FY 08-09</b>	<b>Percent Change</b>
Service Charges	\$478,120	\$454,690	\$427,570	-6.0%
Transfer from General Fund	17,815	21,680	16,230	-25.1%
Contribution from Perpetual Care Fund	114,656	113,440	130,680	15.2%
Interest Income	254	0	0	N/A
<b>Total Resources by Type</b>	<b>\$610,846</b>	<b>\$589,810</b>	<b>\$574,480</b>	<b>-2.6%</b>

<b>Positions</b>				<b>Change</b>
Full-Time	7	7	7	0
Part-Time (FTE's)	3	3	3	0

## BUDGET HIGHLIGHTS

- The adopted budget for Cemeteries is decreased by \$15,330, 2.6%, without reducing existing service levels. Personnel expenses decrease 3.2% due to the reclassification of two positions (-\$6,800). Rising fuel costs in supplies and services are largely offset by savings in overtime (-\$2,500). Debt and lease expenses for FY 08-09 decrease \$7,310 as a result of the completion of payments for a portion of the previously approved sidewalk and fencing project. This project was funded by a transfer from the General Fund.
- As provided by City Code, \$50 from the purchase price of each grave space is appropriated to the Cemetery Perpetual Care Fund (PCF). An annual appropriation from the fund is provided to cover maintenance expenses associated with those areas of the cemeteries that are occupied. The financial status of the perpetual care fund is provided below:



# CEMETERIES

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- In FY 07-08, operating revenues were greater than budgeted, while expenditures were within budget. Estimated net income for the year totals \$79,679.

	<b>FY 07-08</b>	<b>FY 07-08</b>
	<b><u>Budget</u></b>	<b><u>Estimated</u></b>
Operating Revenue	\$454,690	\$526,240
Transfers In		
General Fund	21,680	17,013
Cemetery Perpetual Care Fund	<u>113,440</u>	<u>111,531</u>
	\$589,810	\$654,784
Operating Expenditures	\$557,050	\$550,225
Debt and Lease Expense	<u>32,760</u>	<u>24,880</u>
	\$589,810	\$575,105
<b>Net Income/(Loss)</b>	<b><u>\$0</u></b>	<b><u>\$79,679</u></b>

# **ENVIRONMENTAL HEALTH NON-DEPARTMENTAL**

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Listed below are the appropriations related to environmental health that are not included in any of the departmental budgets in this section of the document.

<b>Expenditures</b>	<b>Actual</b>	<b>Amended</b>	<b>Adopted</b>	<b>Percent</b>
<b>General Fund</b>	<b><u>FY 06-07</u></b>	<b><u>FY 07-08</u></b>	<b><u>FY 08-09</u></b>	<b><u>Change</u></b>
To Cemeteries Fund	\$17,815	\$21,680	\$16,230	-25.1%
<b>Total Expenditures</b>	<b>\$17,815</b>	<b>\$21,680</b>	<b>\$16,230</b>	<b>-25.1%</b>
<b>Resources</b>				
<b>General Fund</b>				
Other General Fund Resources	\$17,815	\$21,680	\$16,230	-25.1%
<b>Total Resources</b>	<b>\$17,815</b>	<b>\$21,680</b>	<b>\$16,230</b>	<b>-25.1%</b>

# ENVIRONMENTAL HEALTH CAPITAL PROJECTS

Listed below are the adopted capital appropriations for environmental health related funds and entities.

## EXPENDITURES

### Project Title

**Adopted**

**FY 08-09**

#### **Water and Wastewater Treatment:**

Thomas Water Treatment Plant Modernization	\$25,484,610
Primary and Preliminary Treatment Upgrade at Wastewater Treatment Plants	25,600,000
Wastewater Lift Station Rehabilitation	55,650
Water Tank Rehabilitation	1,138,750
Miscellaneous Water and Wastewater Treatment Capital Projects	1,980,960
Idol's Pump Station Rehabilitation	2,150,000
Lift Station Supervisory Control and Data Acquisition, Flowmetering and Telemetry System Upgrade	302,820

#### **Water Distribution and Wastewater Collection:**

Annexation - Potential Petition Projects	\$2,500,000
Wastewater Collection System Improvements	3,000,000
Ardmore Area Water and Sewer Rehabilitation	4,400,000
2" Water Main Replacement	1,135,260
Water Distribution System Improvements	1,430,000
Salem Creek Outfall Extension	474,840
Annexation - Major Mains and Five-Day Petitions	4,098,630
Muddy Creek Find and Fix Project	1,417,100
Construction and Maintenance Facilities Improvements	137,500
Winston-Salem State University Campus Distribution System Improvements	1,165,200
Polo Road Outfall Sewer Rehabilitation	1,125,000
Water and Sewer GIS/Work Order Management System	400,000
Permanent Flow Monitoring	285,000

#### **Stormwater Management:**

Bath Branch Regional Stormwater Control Project	\$180,040
Drainage Improvements on Private Property	250,000
Hutton Street Rehabilitation	245,000
Municipal Stormwater Pollution Prevention Plans	108,800
Federal Emergency Management Agency Severe Repetitive Loss Grant Assistance	187,550

<b>Total Expenditures</b>	<b>\$79,668,100</b>
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## FUNDING SOURCES

### **Bonds:**

Revenue Bonds	\$70,025,490
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### **Reserves:**

Stormwater Management Fund	\$971,390
Water and Sewer Fund Balance	8,671,220

<b>Total Funding Sources</b>	<b>\$79,668,100</b>
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