
ENTERPRISE FUND

MISSION

The mission of the Durham County Engineering and Environmental Services Department is to protect regional water quality through the administration of the sewer use, storm water and erosion control ordinances; to improve County facilities through the management of capital projects; to improve the County's environmental management particularly related to greenhouse gas emissions; and to preserve natural and scenic lands, farms, and forests.

PROGRAM DESCRIPTION

The Utility Division is responsible for the operation and maintenance of the County's Triangle Wastewater Treatment Plant, the County's Wastewater Collection System, the coordination of new connections (customers), and the County's Sewer System revenue collections. The Triangle Wastewater Treatment Plant is a 12,000,000 gallon per day five-stage Enhanced Biological Nutrient Removal facility with tertiary filtration and ultraviolet disinfection. Wastewater residuals are dewatered using centrifuges, and the dewatered cake is transported, composted to Class A standards, and distributed by McGill Environmental. A portion of the treated wastewater effluent is further disinfected with sodium hypochlorite and distributed as reuse water for irrigation and industrial cooling towers.

The County has provided sewage treatment for the western portion of the Town of Cary customers since 2005. In the 2014 fiscal year, Cary was discharging approximately 2,500,000 gallons per day to the Triangle Wastewater Treatment Plant. The Utility Division Office is located at 5926 NC Hwy 55 East, Durham, North Carolina, 27713. Office hours are Monday-Friday, 8:30 AM-5:00 PM, Telephone: 919-560-9035; Fax: 919-544-8590.

2014-15 ACCOMPLISHMENTS

- Continued to meet the NCDENR Division of Water Quality performance standards as an "Exceptionally Performing Facility"
- Awarded the "Collection System of the Year" award from the North Carolina American Water Works Association and the Water Environment Association for a collection system less than 100 miles in length

Sewer Utility Fund

Fund: 6006600000

Summary	2013-2014 Actual Exp/Rev	2014-2015 Original Budget	2014-2015 12 Month Estimate	2015-2016 Department Requested	2015-2016 Commissioner Approved
Expenditures					
Personnel	\$1,685,273	\$1,699,109	\$1,624,993	\$1,770,305	\$1,770,305
Operating	\$3,248,781	\$3,466,649	\$2,785,223	\$3,384,552	\$3,384,552
Capital	\$165,960	\$160,000	\$110,566	\$160,000	\$160,000
Transfers	\$500,000	\$520,511	\$187,508	\$588,683	\$588,683
Other	\$3,322,232	\$2,675,000	\$2,795,628	\$2,452,500	\$2,452,500
Total Expenditures	\$8,922,246	\$8,521,269	\$7,503,918	\$8,356,040	\$8,356,040
Revenues					
Licenses & Permits	\$8,400	\$3,000	\$7,650	\$3,000	\$3,000
Investment Income	\$33,592	\$17,500	\$17,541	\$18,000	\$18,000
Service Charges	\$2,101	\$0	\$0	\$0	\$0
Enterprise Charges	\$11,666,172	\$7,742,749	\$9,037,647	\$7,327,020	\$7,327,020
Sewer Connect. Fees	\$332,535	\$258,020	\$1,252,549	\$508,020	\$508,020
Other Revenues	\$23,788	\$0	\$0	\$0	\$0
Other Fin. Sources	\$0	\$500,000	\$500,000	\$500,000	\$500,000
Total Revenues	\$12,066,588	\$8,521,269	\$10,815,387	\$8,356,040	\$8,356,040
Net Expenditures	(\$3,144,342)	\$0	(\$3,311,469)	\$0	\$0
FTEs	23.00	22.00	22.00	22.00	22.00

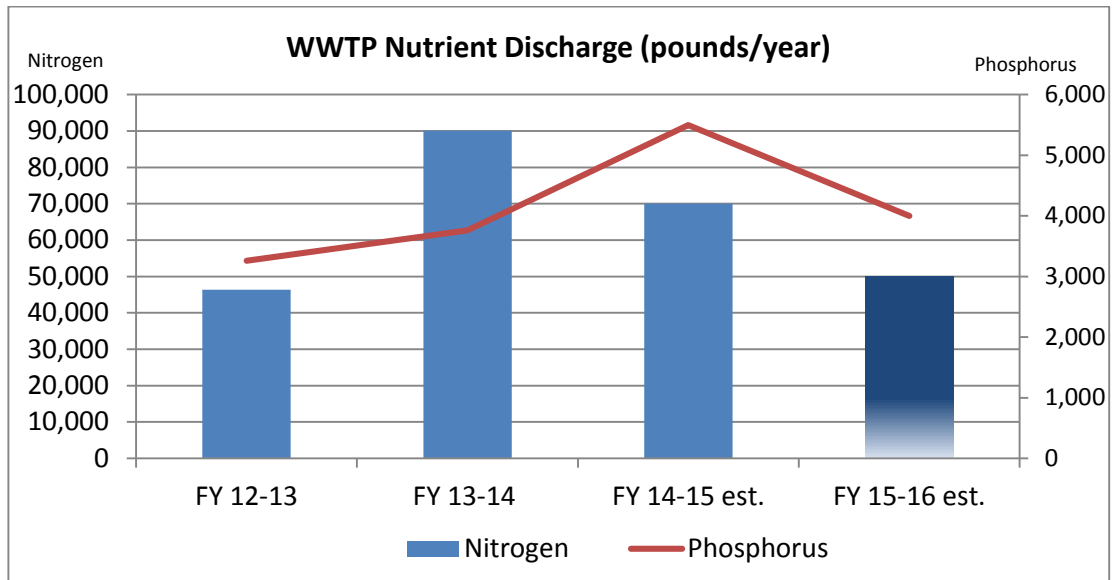
2015-16 HIGHLIGHTS

- Sewer consumption rates will be increased by 2.53% (listed in the fee schedule)
- Capital recovery charges will increase by 1.80% in order to recover capital costs associated with the sludge facility improvements (listed in the fee schedule)

Payments for Enterprise Fund Debt Service			
	2014-2015 Approved	2015-2016 Requested	2015-2016 Approved
PRINCIPAL	\$2,070,000	\$1,934,000	\$1,934,000
INTEREST	\$605,000	\$518,500	\$518,500
TOTAL	\$2,675,000	\$2,452,500	\$2,452,500

2015-16 PERFORMANCE MEASURE

Performance Measure: Triangle Wastewater Treatment Plant (TWWTP) Nutrient Discharge (pounds/year)



Why is this measure important to the overall goal or mission of the department? How does tracking this performance measure improve or help maintain a high level of service?

The Triangle Wastewater Treatment Plant discharges to Northeast Creek which then discharges into Jordan Lake. Jordan Lake has been identified as nutrient sensitive, and dischargers are required to reduce their nutrient discharge to minimize the effects of their discharges. The Triangle Wastewater Treatment Plant is allowed to discharge up to 111,207 pounds per year of total nitrogen and 8,432 pounds per year of total phosphorus. The data indicates the facility is well below these limits. Durham County was the only utility to voluntarily accept these limits prior to the regulatory mandate. This is environmental stewardship, a Strategic Plan goal.

What initiatives or changes to programs will the department take on next year in hopes of improving the overall performance of the related program or goal?

In April 2015, the USA Baseball facility will begin irrigating its fields with reclaimed water. It is expected that over 100,000 gallons per day of reuse water will be used and the nutrient load will decrease based on this water usage. Also, the Town of Cary wastewater discharge was discontinued to the Triangle Wastewater Treatment Plant on January 6, 2015. The Town of Cary waste stream had high nutrient loads from the biopharmaceutical manufacturing companies located in the Wake County portion of Research Triangle Park. Lastly, in the FY 2015-16 time period, process control work to optimize the treatment plant's nutrient removal with the weaker waste stream will be completed.

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