

Wastewater Management Program

LOB #390:

WASTEWATER (GENERAL FUND)

Purpose

The General Fund reimburses the Wastewater Management Program for those customers serviced by Utilities Inc., which is a private company that owns and operates the Colchester Wastewater Treatment Facility. This company services 169 residents of the Harbor View subdivision in the Mount Vernon District and bills the County for wastewater services. This allows the Wastewater Management Program to charge Utilities Inc. customers the same sewer service charges as the other Wastewater Management Program customers.

Description

Each year, the Wastewater Management Program staff initiates a transfer from the General Fund to the Wastewater Management Program for the budgeted amount approved by the Board of Supervisors for those customers serviced by Utilities Inc. This practice has been in effect since 1976.

Benefits

The General Fund contribution allows the Wastewater Management Program to charge Utilities Inc. customers the same sewer service charges as the other Wastewater Management Program customers. It serves approximately 169 homes in the Mount Vernon District.

Mandates

This Line of Business is not mandated.

Trends and Challenges

Over the years, Utilities Inc. has increased the charge to the Wastewater Management Program.

Wastewater Management Program

Resources

Category	FY 2014 Actual	FY 2015 Actual	FY 2016 Adopted
LOB #390: Wastewater (General Fund)			
FUNDING			
<u>Expenditures:</u>			
Operating Expenses	\$145,600	\$145,600	\$145,600
Total Expenditures	\$145,600	\$145,600	\$145,600
Total Revenue	\$0	\$0	\$0
POSITIONS			
<i>Authorized Positions/Full-Time Equivalents (FTEs)</i>			
<u>Positions:</u>			
Regular	0 / 0	0 / 0	0 / 0
Total Positions	0 / 0	0 / 0	0 / 0

Overview of Capital Project Support

The Wastewater Capital Improvement Program is critical in the management of the program assets in order to protect the environment, public health, and provide economic development within Fairfax County. There are five LOBs responsible for the implementation of the Wastewater Management Program's CIP.

Wastewater Treatment is responsible for the treatment plant and reuse facilities. The current list of active projects include:

- Rehabilitation of the bio-solid facilities
- Replacement of the disinfection facilities
- Rehabilitation of the filter facilities
- Rehabilitation of the equalization basins

Wastewater Collection is responsible for the conveyance system, pumping stations, and force mains. The current list of active projects include:

- Rehabilitation of gravity sewer lines
- Rehabilitation of 8 sewer pumping stations
- Rehabilitation of the Dead Run force main
- Rehabilitation of the Difficult Run pump station and force main

Wastewater Management Program

Wastewater Planning and Monitoring is responsible for treatment by contract, providing funding, and financial planning. The current list of treatment by contract projects include:

- DC Water Blue Plains wet weather control tunnels
- ARenew nutrient removal facilities
- Arlington County bio-solids facilities upgrade
- UOSA new nutrient removal facilities

Wastewater Debt Management is responsible for balancing the funding of projects between debt and cash. Wastewater Capital Projects is responsible for the implementation of the Capital Improvement Program to ensure projects are completed on time and within budget. In addition, the Office of Capital Facilities, Utilities Design and Construction is responsible for providing overall project management for the design and construction of major wastewater treatment and collection projects.

The revenue source for the Wastewater Management Capital Improvement Program is:

- Sewer Service Charges, after funding O&M and Debt, fund cash-funded portion of the County's reinvestment projects, and Treatment by Contract projects.
- Sewer Revenue Bonds are sold to provide cash for debt-funded portion of the treatment plant upgrades and major rehabilitation projects.

The FY 2016 - FY 2020 Adopted Capital Improvement Program totaled \$616.5 million with an addition \$494.2 million for FY 2021-FY 2025 for a total of \$1.1 billion. This program is funded solely on Wastewater Management Program revenues and the sale of Sewer Revenue Bonds. The Wastewater Debt Management assesses and monitors long-term financial needs for the Wastewater Management Program and conducts financial reviews to maintain a balanced Capital Improvement Program between debt-funded capital projects and cash-funded capital projects.

There are three components to the Wastewater Management Program Capital Improvement Program. They are:

- Treatment facilities – The NMCPCP is the only facility owned and operated by the Program. The capacity of the plant is 67 mgd, with an average flow of 40 mgd. The average age of the treatment assets is 22 years.
- Collection and Conveyance – The collection and conveyance system consist of approximately 3,412 miles of sewer lines, 63 sewer pumping stations, 54 metering stations, 130 grinder pumps, and 11 rain gauges. In addition, the County is responsible for the County's pro-rata share of the conveyance systems owned by the Treatment by Contract facilities for conveying County flows to those facilities. The average age of the collection system assets are:
 - Sewer lines 34 years
 - Pump stations 28 years
 - Force Mains 17 years
- Treatment by Contract – The Program has capacity at DC Water Blue Plains facility, Alexandria Renew Enterprise facility, Arlington County facility, Upper Occoquan Service Authority facility, and Loudoun Water Board Run Reclamation facility.