

2010 WASTEWATER INFRASTRUCTURE PERFORMANCE PROGRAM PERFORMANCE MEASURE ANNUAL REPORT

Anne Arundel County's public wastewater system consists of ten (10) service areas. The Water Reclamation Facility that ultimately treats wastewater collected in the area determines each service area designation. The wastewater is treated at County owned and operated Water Reclamation Facilities in all but three (3) of the service areas. Non-county owned facilities treat wastewater from the remaining three (3) service areas.

Anne Arundel County wastewater customers produce in excess of eleven (11) billion gallons of wastewater annually. The wastewater is collected and transported through an extensive network of gravity infrastructure consisting of pipe that is as small as 4 inches and as large as 54 inches in diameter. In addition, there are 249 pumping stations that also are used to collect and transport the wastewater flow ultimately to a Water Reclamation Facility. Currently, the County system has approximately 1446 miles of pipe used to transport the wastewater. Of this total approximately 1,204 miles are gravity sewer and 200 miles of pumping station force mains and low-pressure systems.

The Maryland Department of the Environment (MDE) approved the Wastewater Capacity, Management, Operations and Maintenance Program (C.M.O.M.) submittals to the County in June 2005. Included in this program is the requirement of a report and submittal to MDE and being made available to all County Citizens.

In reviewing the goals, goals met, and other data within the audit report a number of important items are noted below:

38 wastewater overflows were recorded and did not meet the goal of 27. 28 of the occurrences were 2,000 gallons or less. One overflow was estimated at 150,000 gallons which was 50% of the total amount of gallons recorded for the year.

12 basement backups are under the goal of 80 and the lowest recorded in the past six (6) years.

Pipe structural failure Sanitary Sewer Overflows (SSO's) per 100 miles per year was calculated at 1.16 per 100 miles of sewer pipe.

Service connection blockages that resulted in an SSO per 100,000 customers was 0.0, which is the lowest ever recorded in one year. This is the first time no service connection overflows were recorded.

Mainline blockages SSO's per 100 miles of sewer exceeded the goal of 0.91, with a 1.00 recorded.

5 Pumping Station overflows were recorded, 4 of which occurred during a tropical storm event.

Cleaned 1,617,492 feet of gravity sewer which was 81.9% of the 1,975,000 foot goal set for the year. The reduction in this category was caused by not being able to fill vacant positions and mandatory furlough days.

Performed internal CCTV inspection of 264,475 feet of gravity sewer, which exceeded the goal of 260,000 feet set for the year.

Replaced/repared 541 service connections which exceeded the goal of 400 by approximately 19%.

Inspected over 11,553 manholes, which did not meet the goal of 13,000.

251 manholes were rehabilitated.

929 feet of large diameter gravity sewer was lined.

The Department of Public Works made significant improvements in areas in 2009. Some of the goals in the maintenance area were not met due to hiring restrictions and mandatory furlough days caused by the economic down turn. We were unable to fill personnel vacancies when they occurred in our Collections System Maintenance and Repair Divisions.

The Department of Public Works will continue to put forth effort and allocate resources in the areas found critical to achieving our goal to further reduce sanitary sewer overflows. The Department of Public Works is committed to working toward continuous improvement in all areas of the wastewater infrastructure. Please take the time to review all the information supplied in the C.M.O.M. Program Performance Measures Audit Report, (Attached).