

2008-2009

WASTEWATER COLLECTION AND TREATMENT SYSTEM REPORT

This report provides information about the performance of the Waynesville Wastewater Treatment Plant (WWTP) and the Town's wastewater collection system for the period of July 1, 2008 to June 30, 2009 as required by the State of North Carolina. All information contained in this report is accurate and complete.

To learn more about the Town's wastewater collection system or wastewater treatment plant, please contact Public Works at 828-456-4410 or visit the Town's web site www.townofwaynesville.org.

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GENERAL INFORMATION

The Town of Waynesville operates a conventional activated sludge secondary treatment plant. Its permitted capacity (NPDES permit NC 0025321) is 6.0 million gallons per day (mgd). During the past year the Waynesville WWTP treated an average daily flow of 2.69 mgd. In addition to the Town's wastewater collection system (WQ CS 00039), the WWTP treated flow from the tributary systems of the Junaluska Sanitary District, Lake Junaluska Assembly, Town of Clyde and a small (one mile) line from the Town of Maggie Valley. The Town of Waynesville's wastewater collection system consists of approximately 69 miles of pipeline ranging in diameter from six inches to thirty inches. The system functions by gravity flow. The Town has no sewage pump stations.

PERFORMANCE

For the fiscal year July 1, 2008 to June 30, 2009 the wastewater collection system performed well and had no sanitary sewer overflows (SSO) that reached surface waters or a 1,000 gallon threshold that were contained. The Town continued work to rehabilitate the sanitary sewer collection system with 3881 LF of line replacement, all 8 inch PVC. The Town routinely inspects sewer line not in the public view, aerial creek crossings, and high priority lines. Inspection footage totaled 165,750 LF for the year. Preventive line washing with the sewer jet truck totaled 362,950 LF, mostly small diameter 6 inch clay pipe. Cameras are used for internal line inspection where problem areas need further investigation. A list of locations is attached.

At the Waynesville Wastewater Treatment Plant (WWTP), a discharge of primary treated wastewater occurred beginning at 8 PM August 26, 2008 and continuing until 1:30 AM August 27, 2008. Remnants of Hurricane Faye causing heavy rainfall and flooding resulted in high influent flows from infiltration and inflow. An estimated 10,000 gallons of dilute, primary treated wastewater was bypassed to Richland Creek when the pumping capacity to the secondary treatment portion of the WWTP was exceeded. The discharge ended after flood levels subsided and rainfall ended. Sewer system rehabilitation activities are being performed to identify and correct infiltration and inflow sources.

For the year the Waynesville WWTP had no concentration based NPDES permit violations. There were no pH, D.O., residual chlorine, bioassay, heavy metals, reporting or monitoring violations. Due to seasonally low influent BOD and TSS concentrations and wet weather returning after a multi-year drought the WWTP did not consistently achieve 85% removal. The noncompliance occurred in December 2008 (80% BOD removal), January 2009 (75% BOD, 82% TSS), February (78% BOD), April (82% BOD) and May (78% BOD).

CUSTOMER RESPONSIBILITIES

The Town needs the help of each sewer user to reduce the number of overflows by collecting grease fats and oils from cooking in a container and dispose of it in the garbage instead of pouring it down the drain. Place a wastebasket in each bathroom for the disposal of solid waste, disposable diapers, condoms and personal hygiene products that DO NOT belong in the sewer system. Place food scraps in the garbage for disposal with household solid waste or start a compost pile using food scraps instead of disposing of them down the kitchen sink.

Please report sanitary sewer overflows (SSOs) and water main breaks by calling Public Works at 828-456-3706 during normal business hours (Monday - Friday, 7:30 AM - 4:00 PM). For after hours call the police dispatch at 828-456-5363.

Be aware of whether you are vulnerable to a back-up of sewage into your premises. A serious risk of back-up could exist if any points of entry into the plumbing system such as floor drains, toilets, sinks or fixtures are lower than the elevation of the next upstream manhole. This problem can be addressed with the proper installation and maintenance of a sewer back flow valve. It is the builder, homeowner or property owner's responsibility to determine whether this situation exists and to install a valve and/or maintain adequate home insurance.

Property owners are responsible for the care and maintenance of service lines from their homes to the sewer mains in the street. A cleanout should be located in this service line near the right of way line or sidewalk. Most sewer blockages occur between the house and the sewer main. The property owner is responsible for correcting this problem.

Please do not cover up manholes, erect fences or structures on sewer lines or easements or damage sewer lines in any manner. SSOs may not be directly caused by these conflicts but access and response time to sewer backups will be hindered.