



## Wastewater Collection System

### System Performance Annual Report July 1, 2014– June 30, 2015

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#### I. General Information:

##### A. Facility / System Name:

City of Hendersonville Wastewater Collection System

##### B. Responsible Entity:

City of Hendersonville

##### C. Operator in Responsible Charge (ORC):

Tim Sexton  
305 Williams Street  
Hendersonville NC 28792  
(828) 697-3073  
Email [tsexton@hvlnc.gov](mailto:tsexton@hvlnc.gov)

##### D. Non-Discharge Permit Number:

Collection System Permit Number WQCS00070

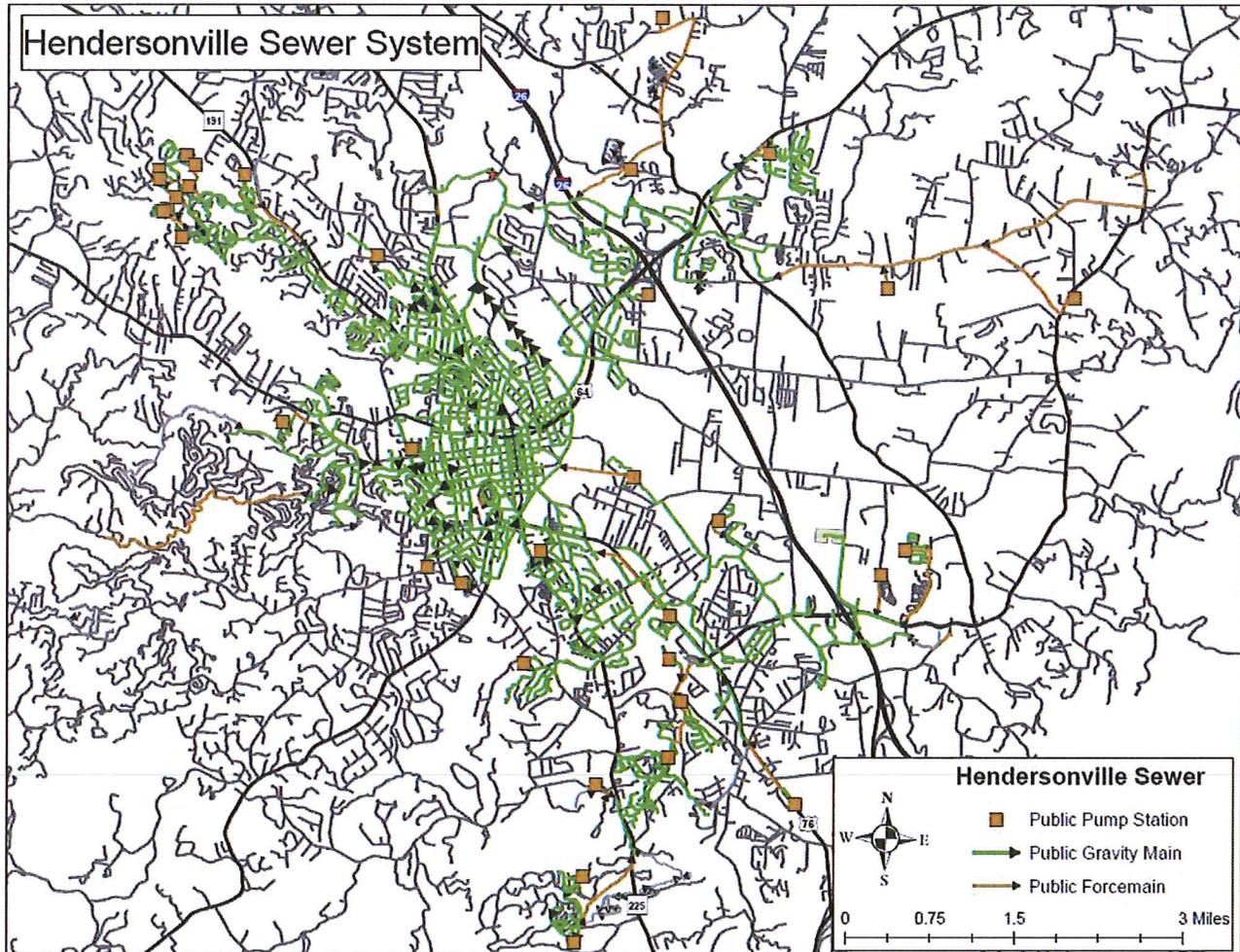
##### NPDES Permit Number (WWTP):

NC0025534

##### E. Description of Collection System:

The City of Hendersonville (the "City") wastewater collection system is located in and around the corporate limits of the City. The majority of the system consists of gravity sewer mains. There are currently twenty-nine (29) wastewater lift stations with pressure force mains located within the system that are owned and operated by the City. The collection system consists of approximately 154-miles of gravity sewer mains ranging in size from 6" to 42". These mains are connected by manholes at each intersecting point. Also there are approximately 24 miles of sewer force mains ranging from 2" to 8" that connect to the lift stations and discharge into manholes at a higher elevation. The City eliminated its largest pump station, along with two other smaller pump stations, with the construction of two large diameter sewer interceptors during this past year. The system collects wastewater and delivers it to the City's wastewater treatment plant (NPDES Permit No. NC0025534) located on Balfour Road.

F. Map of Collection System:



II. Performance:

A. General:

The City's wastewater collection system had a total of three (3) reportable sanitary sewer overflows (SSOs) during the twelve month period from July 1, 2014 to June 30, 2015. These spills resulted in a total of 3,291-gallons of untreated wastewater reaching area streams. The spills did not result in any fish kills or other known environmental impact. This number is down from last year's total of three (3) reportable SSOs totaling 14,300-gallons.

City staff has consistently been working on an inflow and infiltration (I/I) reduction program. During this twelve-month period our crews repaired sections of the system resulting in the reduction of approximately 825-gallons of inflow per one-inch of rainfall. The City has added an inflow infiltration technician position to the sewer collections division of the Department beginning July 1, 2015. This technician will be dedicated to searching out and identifying potential sources of inflow into the City's sewer collection systems. Once identified, these sources of inflow will be prioritized and repaired. The City has also hired a utilities engineer to

assist with this effort and will be designing repair and replacement plans for any defective sewer mains identified that are resulting in inflow.

During the year our crews have cleaned 173,900-feet of our sewer system or approximately 21% of the gravity system. Our crews also inspected approximately 56,622 feet of sewer mains or approximately 7% of the gravity system using closed circuit TV (CCTV) equipment. The City invested over \$218,000 in new CCTV equipment and vehicle, approximately \$350,000 in new vacuum cleaning equipment and vehicle and approximately \$68,000 for a skid-steer bushhog machine for clearing sewer rights-of-way over the past 36-months.

B. By Month:

SSOs which reached area streams:

**Thursday, July 24, 2014** an SSO totaling approximately **420 gallons** were experienced within the City's collection system on this date.

This SSO resulted from a broken sewer lateral on a 6-inch clay sewer main at 616 E. Pace St. resulting in approximately **420 gallons** of untreated wastewater eventually entering an unnamed tributary to Mud Creek. The incident was identified by City staff at 9:00 AM and ended at 12:30 PM. There were no known environmental impacts resulting from this overflow.

**Thursday, July 31, 2014** an SSO totaling approximately **2,721 gallons** was experienced within the City's collection system.

This SSO resulted from damage to a pressure sewer line along Nix Rd. near the bridge over Clear Creek resulting in approximately **2,721 gallons** of untreated wastewater eventually entering Clear Creek. The incident was identified by City staff at 1:30 PM and ended at 3:30 PM. There were no known environmental impacts resulting from this overflow.

**Wednesday, April 8, 2015** an SSO totaling **150 gallons** was experienced within the City's collection system.

This SSO resulted from a broken 2-inch pressure sewer main at the tap from a private pump station in the vicinity of 101 E. Blue Ridge Rd. and resulted in **150 gallons** of untreated wastewater eventually entering an unnamed tributary to Bat Fork Creek. The incident was reported to City staff at 1:45 PM and ended at 2:15 PM. There were no known environmental impacts resulting from this overflow.

Note: After flood events our crews inspect low lying areas in search of damaged manholes.

III. Notification:

Copies of this report are available to the public at:

Hendersonville Water and Sewer  
City Operations Center  
305 Williams Street  
Hendersonville, North Carolina 28792  
8:00 AM – 5:00 PM (Monday through Friday)

Also published on the City's website at [www.hvlnc.gov](http://www.hvlnc.gov)

Customers on the City's wastewater system have been notified of this report by a press release to all electronic and print news media outlets that provide general coverage to the Henderson County area. This report is also available on the City's website at [www.cityofhendersonville.org](http://www.cityofhendersonville.org).

IV. Certification:

I certify under penalty of law that this report is complete and accurate to the best of my knowledge. I further certify that this report has been made available to the users or customers of the City of Hendersonville's wastewater collection system and that those users have been notified of its availability.



\_\_\_\_\_  
Tim Sexton, ORC  
Collection System Supervisor  
Hendersonville Water and Sewer

7.24.15

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Date