

City of Salisbury NPDES Annual Report

January 11, 2016

Permit Number: NCS000484

Report Number: NCS000484

County: Rowan

Region: Mooresville

2015

Background Information

Statute Information

- Name of Public Entity: City of Salisbury
- Jurisdictional Area:
 - City Limits plus ETJ = 35.51 square miles
 - City Limits = 21.71 square miles
- Population Permanent: 33,955
- Population Seasonal: Not available

Drainage Information

- Storm Service Area (City Limits): 21.71 square miles
- River Basin: Yadkin
- Estimated Percentage of jurisdictional area containing the following four land use activities:
 - Residential = 67%
 - Commercial = 12%
 - Industrial = 10%
 - Open Space = 1%

The City of Salisbury's level of service related to storm drainage meets the minimum basic requirements of the State of North Carolina. The City maintains drainage facilities within City-system street rights of way. The City operates under an NPDES Phase 2 Permit effective December 1, 2011 to November 30th, 2016 that allows for discharge into receiving waters, Crane Creek, Draft Branch, Grants Creek, Jump and Run Branch, and Town Creek within the Yadkin Pee-Dee River Basin.

The City continues to use its Stormwater Utility in order to generate funds to meet stormwater regulations. This Utility was created as an identified fiscal and accounting fund for the purpose of comprehensively addressing the stormwater management needs of the City through programs designed to protect and manage water quality and quantity by controlling the level of pollutants in stormwater runoff, and the quantity and rate of stormwater received and conveyed by structural and natural stormwater and drainage systems of all types. Stormwater Services oversee the functions of the utility. Functions provided by Stormwater Services include Engineering and Administration, Storm drain Maintenance, Leaf Collection and Street Sweeping. Stormwater Services is part of the Street Division and works together with those employees to quickly address issues related to stormwater.

The City of Salisbury has various departments with various employees implementing the NPDES permit. Coordination of this effort is done by the Stormwater Services Division. This Division takes the lead on public education and outreach along with public involvement and participation. Stormwater Services maintains the annual reports and other administrative duties. This Division also maintains the stormwater webpage to include NPDES information. This webpage answers frequently asked questions such as, “what is stormwater?”, “what is allowed to drain into streams?”, and “who to contact if a problem is noticed.” It also contains information for developers and contractors on what is required for new construction to comply with our NPDES permit. The Division provides specialized training for those employees that maintain the MS4 drainage system with focus on disposal of floatables, grit, sediment, and other pollutants removed for the system. The Division provides inspections and record keeping of post construction stormwater BMPs. The Division keeps track of the amount of mixtures used to melt ice on roadways. Approximately 48 tons of salt/sand and 0 tons of salt brine were used this past winter. The Division also has 1 certified ROW spray licenses.

The GIS Division continues to map the City’s storm drain infrastructure. Data has been collected using a GIS data collector as well as digitizing storm drain features from storm sewer asbuilt. Data collection is done in the winter months when trees are without leaf cover which allows for satellite communication. This data is stored in a layer that can be imported onto maps using ArcMap software. The City’s GIS Division has already created many layers that show topographical lines, waters of the US, and aerial photographs. These layers, shown on top of each other, are extremely helpful delineating drainage basins and seeing which properties drain to specific outfalls. This information along with the impervious surface data will help our Stormwater Engineers and Water Quality Technicians calculate runoff for improvement projects and help identify locations for BMP’s to address water quality impairments.

The City of Salisbury currently engages in stormwater education as well as recycling, sustainability, industrial pretreatment, drinking water treatment, wastewater treatment, water conservation, and our FOG (Fats, Oils, Grease and Wax) management/disposal, all of which ultimately involve preserving our water resources. Stormwater is not treated; therefore, it is important to educate the community as to how stormwater pollutants affect the environment and how to reduce these pollutants. As we have learned, one of the most effective tools in educating the general public about environment issues (including water pollution prevention) is through participation with city and county groups and events that target the general public. From elementary school children to seniors, our current efforts involve educational coloring books (and coloring contests), puppet shows, brochures, signage, posters, PowerPoint presentations, games, tours and presentations to groups such as the City Managers Leadership Association, Leadership Rowan, The Youth Council, AP Science Clubs, the Citizen’s Academy program which is currently under development, among others. We also participate in numerous public events including Earth Day, Friday Night Downtown events, Movies in the Park, numerous city and county festivals and the like. All our events are outlined in the attached report including the numbers of citizens attending these events and the specifics of each. The total of citizen’s educated by our events this year totaled well over 18,000.

The City's Risk Manager trains employees on stormwater quality by using materials that are available from the EPA, the State of North Carolina, and other organizations. The Risk Manager oversees maintenance of an inventory of hazardous chemicals and other potentially hazardous materials. Risk Management provides the Hazard Communications Programs – Global Harmonizing System, Safety Data Sheets (SDS) to the Central Fire Departments Hazard Response Team to assure buildings chemical contents. She also ensures that limited but sufficient quantity of items are on hand to minimize risk of spill or contamination of stormwater.

City Engineering continues to review plans for adequacy of stormwater design. Engineer Bryan Alston is a Certified Stormwater BMP Reviewer and Engineering Tech Darrell Riley is a certified Stormwater BMP inspector. All construction plans are reviewed for NPDES compliance. Through 2013, 24 sites have operating BMP's, 4 of which were finalized this year.

Regulation of Sedimentation and Erosion Control in Salisbury's jurisdiction continues to be delegated to Rowan County. The City conducts spot inspections to help insure that erosion control measures are functioning properly. Residents who see a problem can call the City's stormwater pollution hotline to report a concern. City staff will then contact Rowan County personnel and work to resolve the issue together. The contact person for Rowan County's Sedimentation and Erosion Control Program is Greg Greene. His contact information is listed below:

Greg Greene: (704) 216-8589
Rowan County Environmental Management
2727-D Old Concord Road
Salisbury, NC 28146
Greg.Greene@rowancountync.gov

The City of Salisbury's Fire Department includes a Hazardous Material Emergency Response team. The purpose of this team operates within three (3) operational priorities to include: 1) Rescue of persons endangered by the release of hazardous materials, 2) support incident commanders at the release of hazardous materials with technical information and resources and 3) to document and record all emergencies involving hazardous materials in its response area for statistical references and reports. The hazardous material team responded 23 times from 1/1/15 to 12/31/15 for incidents consisting of flammable or combustible liquid spills, gas leaks, or chemical spills.

The City of Salisbury operates several facilities that are subject to NPDES guidelines. Our Fleet Maintenance division has an NCG08 permit for their operations. Fleet division has developed a standard operating procedure, a training program for spill prevention and best management practices, and also tests their stormwater twice a year per their NCG08 permit. Our Fleet Division was inspected by NCDENR for a Compliance Evaluation Inspection (CEI). It was concluded that overall, the facility's Stormwater Pollution

Prevention Plan (SPPP) was well developed and implemented. The SPPP will be updated on an annual basis as required by Part II, Section A, No. 7 of their permit.

The City's Parks and Recreation Department uses fertilizers and chemicals for control of dust, pests, vermin, and weeds. Employees are trained in safe and effective application, storage, and disposal of the chemicals used. Currently the Parks and Recreation Department has employees with:

- 3 employees with Ornamentals and Turf licenses.
- 1 employee with Ornamentals, Turf and Right of Way licenses.
- 1 employee with Ornamentals, Turf, Aquatics, Subsurface Waste Water Management and Rain Garden Certification.

The City's Solid Waste Division is responsible for managing trash and garbage collection to ensure that exposure of contaminant materials is minimized. The City contracts its recycling pickup to Waste Pro USA. The contact person is

- Joe Warner, Route Manager, at 704-886-4413
- Bob TenHaaf Regional Vice President 704-792--0800

The City relies on its employees and citizens to report any questionable discharge or dry weather runoff. Our Code Services Division is responsible for investigating the requests and correcting any problems. The Street and Stormwater Division assists in responding to the problems if needed by providing technical information. Citizens can report a possible problem to the stormwater hotline that is placed in the list of City phone numbers in the phone book. Cases are electronically filed and saved for reporting purposes and future reference. Rowan County Emergency Services forwards hazardous material information that is filed and saved for reporting purposes.

Salisbury Rowan Utilities (SRU) is a division of the City and is responsible for maintaining the sanitary sewer system. SRU addresses sanitary sewer overflows and inspects suspected illicit discharges and cross connections. SRU currently has 2 active stormwater WWTP NPDES permits (located at Grant Creek and Town Creek WWTPs). The plant staff continues to implement BMPs to prevent potential pollutant sources. The plant grounds, storage areas and outfalls are inspected regularly to identify any potential pollutant sources in accordance with their SPPP. This includes daily clean-up after chemical use and loading and unloading practices. Employee education is also an annual requirement. For the 2015 calendar year, SRU reported 6 sanitary sewer overflows. All were reported within 24 hours to the NC Division of Water Resources. SRU's FOG staff also performed 161 dumpster drain compliance inspections during the 2015 calendar year.

Below is an organizational chart of offices with responsibilities related to NPDES:

