



Tennessee Department of Environment and Conservation  
 Division of Water Resources  
 William R. Snodgrass Tennessee Tower,  
 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243  
 1-888-891-8332 (TDEC)

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 Information

|                                    |           |  |
|------------------------------------|-----------|--|
| Name of MS4: City of Bristol, TN   |           | MS4 Permit Number: TNS075183   |
| Contact Person: Jacob Chandler     |           | Email Address: jchandler@bristoltn.org   |
| Telephone: (423) 989.5585          |           | MS4 Program Web Address:<br>https://www.bristoltn.org/134/Stormwater-Information |
| Mailing Address: 212 Blackley Road |           |  |
| City: Bristol                      | State: TN | ZIP code: 37620  |

What is the current population of your MS4? 27,702

What is the reporting period for this annual report? July1 2018 to June 30 2019

2. Discharges to Waterbodies with Unavailable Parameters or Exceptional Tennessee Waters (Section 3.1)

- A. Does your MS4 discharge into waters with unavailable parameters (previously referred to as impaired) for pathogens, nutrients, siltation or other parameters related to stormwater runoff from urbanized areas as listed on TN's most current 303(d) list and/or according to the on-line state GIS mapping tool ([tdeconline.tn.gov/dwr/](http://tdeconline.tn.gov/dwr/))? If yes, attach a list.  Yes  No
- B. Are there established and approved TMDLs (<http://www.tn.gov/environment/article/wr-ws-tennessees-total-maximum-daily-load-tmdl-program>) with waste load allocations for MS4 discharges in your jurisdiction? If yes, attach a list.  Yes  No
- C. Does your MS4 discharge to any Exceptional Tennessee Waters (ETWs - [http://environment-online.tn.gov:8080/pls/enf\\_reports/f?p=9034:34304:4880790061142](http://environment-online.tn.gov:8080/pls/enf_reports/f?p=9034:34304:4880790061142))? If yes, attach a list.  Yes  No
- D. Are you implementing specific Best Management Practices (BMPs) to control pollutant discharges to waterbodies with unavailable parameters or ETWs? If yes, describe the specific practices: The City manages a Qualifying Local Program (QLP) in accordance with the Tennessee Department of Environment and Conservation (TDEC) Construction General Permit (CGP) and the TDEC Erosion and Sediment Control Handbook that requires a higher degree of protection during construction activities for waterbodies with unavailable parameters or ETWs. The City requires post-construction water quality treatment and stream buffers for projects that disturb more than 1-acre, while this is a City wide requirement, it serves to protect all waterbodies. The City requires channel protection for all projects that disturb more than 1-acre, while this is a City wide requirement, it serves to protect all waterbodies.  Yes  No

3. Public Education/Outreach and Involvement/Participation (Sections 4.2.1 and 4.2.2)

- A. Have you developed a Public Information and Education plan (PIE)?  Yes  No

- B. Is your public education program targeting specific pollutants and sources, such as Hot Spots? If yes, describe the specific pollutants and/or sources targeted by your public education program: When development projects are submitted the City requires a Special Pollution Abatement Plan (SPAP) for developments that are consider Hot Spots. The SPAP specifically targets pollutants that are generated on each Hot Spot development. The City has developed and maintains a map of Hot Spots and has created a program to educate each owner of Hot Spot sources. The City has created a brochure that was sent to the Hot Spots list to educate and inform of the hazards of contaminated water runoff. The City is a participating member in the Tennessee Stormwater Association (TNSA). TNSA maintains and tracks a social media campaign, which contains static ads related to the season and the activites per month. The ads contain information on grass clippings, car washes, construction activities, and disposal of old cleaning supplies. Spilt between East and North East region the ads have reached 122,424 people and received 449 link clicks, refer to the attachment. The City airs stormwater educational segments on BTN-TV that target specific audiences and pollutants; 11,840 segments were aired during the year. The segments contain information on pesticides, motor oil, leaves, animal waste, and trash. 1,580 water adventure coloring books and 900 stormwater brochures were distributed to the Bristol Tennessee City School System. The City maintains information on the stormwater website that targets specific pollutants of concern, such as pesticides, fertilizers, and herbicides; the websites has 250 views with an average time spent of 1-minute, and 47-seconds.  Yes  No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: <http://www.bristoltn.org/134/Stormwater-Information>  Yes  No
- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: The City primarily relies on BTN-TV, the City's website, and social media (Facebook, Twitter, Instagram, YouTube, Flickr, and Periscope) to advertise and publicize the public education, outreach, involvement, and participation opportunities. The City is also a member of TNSA, who has implimented public outreach through various ad campaigns, with a link to the City of Bristol stormwater page. The City maintains a Calendar on the City website where the City advertises different events, such as stream cleanup events. The City is in the process of updating the financial system, which will allow the City the ability to advertise and provide information to the public on utility bills. The City partners with various organizations to support various environmental efforts, such as stream cleanups and 100k/250k tree days.
- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: The City participated in the TNSA social media ad program, provided school material for distribution as detailed above, and was a distribution point for the 250k Tree Day Event. The City advertised the following events on the City website calendar: Boone Lake Cleanup Day on April 28, 2018 and Household Hazardous Waste Collection on April 28, 2018. The City is a board member of the Boone Watershed Partnership that provides various activities, events, and sponsorships through the year.
- F. Summarize any specific successful outcome(s) (e.g., citizen involvement, pollutant reduction, water quality improvement, etc.) fully or partially attributable to your public education and participation program during this reporting period: South Holston lake and river clean up was held August 24, 2019. The South Holston event had 394 volunteers that collected 250 (2.5 tons) tires, and 8.75 tons of house hold trash. Household Hazardous Waste collection was held April 28, 2018. The Household hazardous waste event collected 2,669 lbs. of flammable liquids, 382 lbs. of acids, 523 lbs. of caustics, 325 lbs. of oxidizers, 2,995 lbs. of poisons, 1,611 lbs. of oil paints, 716 lbs. of aerosols, 1 lb of mercury, 1,337 lbs. of fluorescent lamps, and 1,769 lbs. of non flammable liquids, 39 lbs. of mercury lamps, 36 lbs. of medical sharps. The City was a distribution point for the Tennessee Enviromental Council 250k Tree Day Event.

4. Illicit Discharge Detection and Elimination (Section 4.2.3)

- A. Have you developed and do you continue to update a storm sewer system map that shows the location of system outfalls where the municipal storm sewer system discharges into waters of the state or conveyances owned or operated by another MS4?  Yes  No
- B. If yes, does the map include inputs into the storm sewer collection system, such as the inlets, catch basins, drop structures or other defined contributing points to the sewershed of that outfall, and general direction of stormwater flow?  Yes  No
- C. How many outfalls have you identified in your storm sewer system? 112
- D. Do you have an ordinance, or other regulatory mechanism, that prohibits non-stormwater discharges into your storm sewer system?  Yes  No
- E. Have you implemented a plan to detect, identify and eliminate non-stormwater discharges, including illegal disposal, throughout the storm sewer system? If yes, provide a summary: The City performs outfall assessments using the Maryland Stream Corridor Assessment Survey Protocols to visually determine if there are possible illicit discharges. If an illicit discharge is suspected, the City will use a storm sewer system map to track the discharge further upstream. The City also provides staff training regarding illicit discharges and relies on the field staff to be cognizant of potential illicit discharges or dumping.  Yes  No
- F. How many illicit discharge related complaints were received this reporting period? 1
- G. How many illicit discharge investigations were performed this reporting period? 1
- H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? 1

5. Construction Site Stormwater Runoff Pollutant Control (Section 4.2.4)

- A. Do you have an ordinance or other regulatory mechanism requiring:
  - Construction site operators to implement appropriate erosion prevention and sediment control BMPs consistent with those described in the TDEC EPSC Handbook?  Yes  No
  - Construction site operators to control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste?  Yes  No
  - Design storm and special conditions for unavailable parameters waters or Exceptional Tennessee Waters consistent with those of the current Tennessee Construction General Permit (TNR100000)?  Yes  No
- B. Do you have specific procedures for construction site plan (including erosion prevention and sediment BMPs) review and approval?  Yes  No
- C. Do you have sanctions to enforce compliance?  Yes  No
- D. Do you hold pre-construction meetings with operators of priority construction activities and inspect priority construction sites at least monthly?  Yes  No
- E. How many construction sites disturbing at least one acre or greater were active in your jurisdiction this reporting period? 18

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- F. How many active priority and non-priority construction sites were inspected this reporting period? 18  
 G. How many construction related complaints were received this reporting period? 0

6. Permanent Stormwater Management at New Development and Redevelopment Projects (Section 4.2.5)

- A. Do you have a regulatory mechanism (e.g. ordinance) requiring permanent stormwater pollutant removal for development and redevelopment projects? If no, have you submitted an Implementation Plan to the Division?  Yes  No  
 Yes  No
- B. Do you have an ordinance or other regulatory mechanism requiring:  
 Site plan review and approval of new and re-development projects?  Yes  No  
 A process to ensure stormwater control measures (SCMs) are properly installed and maintained?  Yes  No  
 Permanent water quality riparian buffers? If yes, specify requirements: For all sites that disturbed more than 1-acre, a vegetated buffer is required from waterbodies and the width is a minimum of 25-feet from top of bank.  Yes  No
- C. What is the threshold for development and redevelopment project plans plan review (e.g., all projects, projects disturbing greater than one acre, etc.)? All Projects
- D. How many development and redevelopment project plans were reviewed for this reporting period? 14
- E. How many development and redevelopment project plans were approved? 10
- F. How many permanent stormwater related complaints were received this reporting period? XXXX(final number to be updated prior to final version)
- G. How many enforcement actions were taken to address improper installation or maintenance? 0
- H. Do you have a system to inventory and track the status of all public and private SCMs installed on development and redevelopment projects?  Yes  No
- I. Does your program include an off-site stormwater mitigation or payment into public stormwater fund? If yes, specify. N/A  Yes  No

7. Stormwater Management for Municipal Operations (Section 4.2.6)

- A. As applicable, have stormwater related operation and maintenance plans that include information related to maintenance activities, schedules and the proper disposal of waste from structural and non-structural stormwater controls been developed and implemented at the following municipal operations:
- Streets, roads, highways?  Yes  No
- Municipal parking lots?  Yes  No
- Maintenance and storage yards?  Yes  No
- Fleet or maintenance shops with outdoor storage areas?  Yes  No
- Salt and storage locations?  Yes  No
- Snow disposal areas?  Yes  No
- Waste disposal, storage, and transfer stations?  Yes  No

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- B. Do you have a training program for employees responsible for municipal operations at facilities within the jurisdiction that handle, generate and/or store materials which constitute a potential pollutant of concern for MS4s?  Yes  No
- If yes, are new applicable employees trained within six months, and existing applicable employees trained and/or retrained within the permit term?  Yes  No

8. Reviewing and Updating Stormwater Management Programs (Section 4.4)

- A. Describe any revisions to your program implemented during this reporting period including but not limited to:  
Modifications or replacement of an ineffective activity/control measure. Additional SOPs and updates to SOPs have been made throughout the year to provide additional guidance to City staff regarding day to day activities and services provided.  
Changes to the program as required by the division to satisfy permit requirements. The City has completed most of the items indicated in the 2016 MS4 Audit Corrective Action Plan. The only item that remains uncompleted is the update to the permanent SCM Maintenance Program. The City's consultant has been working on completing the owners guide and an updated ordinance for the City. The guide and ordinance was originally estimated to be completed by Summer 2017, however the creation of both has taken longer than expected.  
Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. N/A
- B. In preparation for this annual report, have you performed an overall assessment of your stormwater management program effectiveness? If yes, summarize the assessment results, and any modifications and improvements scheduled to be implemented in the next reporting period. As a result of the 2016 Audit, a review of all City's SOP was performed and additional SOPs were created while other SOPs were updated to provide additional guidance to City staff.  Yes  No

9. Enforcement Response Plan (Section 4.5)

- A. Have you implemented an enforcement response plan that includes progressive enforcement actions to address non-compliance, and allows the maximum penalties specified in TCA 68-221-1106? If no, explain. \_\_\_\_\_  Yes  No
- B. As applicable, identify which of the following types of enforcement actions (or their equivalent) were used during this reporting period; indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater management), and note those for which you do not have authority:

| <u>Action</u>   | <u>Construction</u> | <u>Permanent Stormwater</u> | <u>Illicit Discharge</u> | <u>In Your ERP?</u>   |
|---|---------------------|-----------------------------|--------------------------|---|
| Verbal warnings                                       | # <u>10</u>         | # _____                     | # <u>1</u>               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                         |
| Written notices                                       | # <u>1</u>          | # _____                     | # <u>1</u>               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                         |
| Citations with administrative penalties               | # _____             | # _____                     | # _____                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                         |
| Stop work orders                                      | # _____             | # _____                     | # _____                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                         |
| Withholding of plan approvals or other authorizations | # _____             | # _____                     | # _____                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                         |
| Additional Measures                                   | # _____             | # _____                     | # _____                  | Describe: <u>The City has a variety of compliance measures in the ERP not listed above.</u> |

- C. Do you track instances of non-compliance and related enforcement documentation?  Yes  No
- D. What were the most common types of non-compliance instances documented during this reporting period? Most non-compliance issue are related to maintaining erosion and sediment control practices and enforcing the twice-weekly inspections.

10. Monitoring, Recordkeeping and reporting (Section 5)

- A. Summarize any analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. The City has met with TDEC to discuss best practices and locations to monitor. The City is working to meet with Sullivan county to work jointly to efficiently analyze the region.
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. The City has met with TDEC to discuss best practices and locations to monitor. The City is working to meet with Sullivan county to work jointly to efficiently analyze the region.
- C. If applicable, are monitoring records for activities performed during this reporting period submitted with this report.  Yes  No

11. Certification

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This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

*"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."*

Margaret Feierabend, Mayor  
 Printed Name and Title

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date

Annual reports must be submitted by September 30 of each calendar year (Section 5.4) to the appropriate Environmental Field Office (EFO), identified in the table below:

| EFO          | Street Address                  | City         | Zip Code | Telephone      |
|--------------|---------------------------------|--------------|----------|----------------|
| Chattanooga  | 1301 Riverfront Pkwy, Suite 206 | Chattanooga  | 37402    | (423) 634-5745 |
| Columbia     | 1421 Hampshire Pike             | Columbia     | 38401    | (931) 380-3371 |
| Cookeville   | 1221 South Willow Ave.          | Cookeville   | 38506    | (931) 520-6688 |
| Jackson      | 1625 Hollywood Drive            | Jackson      | 38305    | (731) 512-1300 |
| Johnson City | 2305 Silverdale Road            | Johnson City | 37601    | (423) 854-5400 |
| Knoxville    | 3711 Middlebrook Pike           | Knoxville    | 37921    | (865) 594-6035 |
| Memphis      | 8383 Wolf Lake Drive            | Bartlett     | 38133    | (901) 371-3000 |
| Nashville    | 711 R S Gass Boulevard          | Nashville    | 37216    | (615) 687-7000 |