



Tennessee Department of Environment and Conservation
Division of Water Pollution Control
Enforcement and Compliance Section
L&C Annex, 6th Floor, 401 Church Street
Nashville, TN 37243
(615) 532-0625

Small Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 INFORMATION

City of Bristol Tennessee

Name of MS4

Timothy H. Beavers, City Engineer

Name of Contact Person

(423) 989-5566

Telephone (including area code)

POB 1189

Mailing Address

Bristol

TN

37621-1189

City

State

ZIP code

What is the current population of your MS4? 26,803

What is the reporting period for this annual report? From 07/01/2011 to 06/30/2012

2. PROTECTION OF STATE OR FEDERALLY LISTED SPECIES

A. Are any of the MS4 discharges or discharge-related activities likely to jeopardize any state or federally listed species (**Part 3, Special Conditions, General Permit for Phase II MS4s**) Yes No

B. Please attach the determination of the effect of the MS4 discharges on state or federally listed species per sub-part 3.2.1

3. WATER QUALITY PRIORITIES

A. Does your MS4 discharge to waters listed as impaired on the state 303(d) list? Yes No

B. If yes, identify each impaired water, the impairment cause(s), whether a TMDL has been approved by EPA for each, and whether the TMDL identifies your MS4 as a source of the impairment.

Waterbody I.D. #	Cause/TMDL Priority	Approved TMDL		MS4 Assigned to WLA	
Beaver Creek 042-1000	Nitrates	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	E-coli				
Beaver Creek 042-2000	Habitat loss due to alteration in stream-side or littoral vegetative cover	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Nitrates				
	Loss of Biological integrity due to siltation				
	E-coli				

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Cedar Creek 042-0500	Nitrates	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Loss of biological integrity due to siltation				
	Other Anthropogenic Habitat Alterations				
	E-coli				
Little Creek 042-0400	E-coli	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Phosphorus				
	Loss of biological integrity due to siltation				
	Physical Substrate Habitat Alteration				
	Alteration in stream-side or littoral vegetative cover				
Paperville (Sinking) Creek 041-0100	Loss of biological integrity due to siltation	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Back Creek (042-0200)	Loss of biological integrity due to siltation	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	E-coli				
	Physical substrate habitat alterations				
	Nitrates				

C. What specific sources of these pollutants of concern are you targeting? Siltation, E-coli

D. Do you have discharges to any Exceptional TN Waters (ETWs) or Outstanding National Resource Waters (ONRWs)? Yes No

E. Are you implementing additional specific provisions to ensure the continued integrity of ETWs or ONRWS located within your jurisdiction? Yes No

4. PUBLIC EDUCATION AND PUBLIC PARTICIPATION

A. Is your public education program targeting specific pollutants and sources of those pollutants? Yes No

B. If yes, what are the specific causes, sources and/or pollutants addressed by your public education program? Nitrates, E-coli, Siltation, Habitat loss due to flow alteration, Loss in stream-side or littoral cover

C. Note specific successful outcome(s) (NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period. N/A

D. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program? Yes No

E. Provide a summary of all public meetings required by the permit. Annual Report Public Meeting, 09/25/2012

5. CODES AND ORDINANCES REVIEW AND UPDATE

A. Is a completed copy of the EPA Water Quality Scorecard submitted with this report? Yes No

B. Include status of implementation of code, ordinance and/or policy revisions associated with permanent stormwater management. **Not required until May 2015**

6. CONSTRUCTION

A. Do you have an ordinance or adopted policies stipulating: Erosion and sediment control requirements? Yes No

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- Other construction waste control requirements? Yes No
 Requirement to submit construction plans for review? Yes No
 MS4 enforcement authority? Yes No

B. How many active construction sites disturbing at least one acre were there in your jurisdiction this reporting period? 14

C. How many of these active sites did you inspect this reporting period? All

D. On average, how many times each, or with what frequency, were these sites inspected (e.g., weekly, monthly, etc.)? Monthly

E. Do you prioritize certain construction sites for more frequent inspections? Yes No
 If Yes, based on what criteria? N/A

7. ILLICIT DISCHARGE ELIMINATION

- A. Have you completed a map of all outfalls and receiving waters of your storm sewer system? Yes No
 B. Have you completed a map of all storm drain pipes of storm sewer system? Yes No
 C. How many outfalls have you identified in your system? 112
 D. How many of these outfalls have been screened for dry weather discharges? All
 E. How many of these have been screened more than once? All
 F. What is your frequency for screening outfalls for illicit discharges? Once per permit period.
 G. Do you have an ordinance that effectively prohibits illicit discharges? Yes No
 H. During this reporting period, how many illicit discharges/illegal connections have you discovered (or been reported to you)? 3
 I. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated? 3

8. STORMWATER MANAGEMENT FOR MUNICIPAL OPERATIONS

- A. Have stormwater pollution prevention plans (or an equivalent plan) been developed for:
- All parks, ball fields and other recreational facilities Yes No
 - All municipal turf grass/landscape management activities Yes No
 - All municipal vehicle fueling, operation and maintenance activities Yes No
 - All municipal maintenance yards Yes No
 - All municipal waste handling and disposal areas Yes No
- B. Are stormwater inspections conducted at these facilities? Yes No
1. If Yes, at what frequency are inspections conducted? Quarterly
- C. Have standard operating procedures or BMPs been developed for all MS4 field activities? (e.g., road repairs, catch basin cleaning, landscape management, etc.) Yes No
- D. Do you have a prioritization system for storm sewer system and permanent BMP inspections? Yes No
- E. On average, how frequently are catch basins and other inline treatment systems inspected? Annually
- F. On average, how frequently are catch basins and other inline treatment systems cleaned out/maintained? Annually
- G. Do municipal employees in all relevant positions and departments receive comprehensive training on stormwater management? Yes No
- H. If yes, do you also provide regular updates and refreshers? Yes No
- If so, how frequently and/or under what circumstances? Annual Staff Training

9. PERMANENT STORMWATER CONTROLS

- A. Do you have an ordinance or other mechanism to require:

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- Site plan reviews of all new and re-development projects? Yes No
- Maintenance of stormwater management controls? Yes No
- Retrofitting of existing BMPs with green infrastructure BMPs? Yes No
- B. What is the threshold for new/redevelopment stormwater plan review? (e.g., all projects, projects disturbing greater than one acre, etc.) All Projects
- C. Have you implemented and enforced performance standards for permanent stormwater controls? Yes No
- D. Do these performance standards go beyond the requirements found in paragraph 4.2.5.2 and require that pre-development hydrology be met for:
- Flow volumes Yes No
- Peak discharge rates Yes No
- Discharge frequency Yes No
- Flow duration Yes No
- E. Please provide the URL/reference where all permanent stormwater management standards can be found.
<http://www.bristoltn.org/stormwater.cfm#>
- F. How many development and redevelopment project plans were reviewed for this reporting period? 2
- G. How many development and redevelopment project plans were approved? 2
- H. How many permanent stormwater management practices/facilities were inspected? 4
- I. How many were found to have inadequate maintenance? None
- J. Of those, how many were notified and remedied within 30 days? (If window is different than 30 days, please specify) N/A
- K. How many enforcement actions were taken that address inadequate maintenance? N/A
- L. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance? Yes No
- M. Do all municipal departments and/or staff (as relevant) have access to this tracking system? Yes No
- N. Has the MS4 developed a program to allow for incentive standards for redeveloped sites? Yes No
- O. How many maintenance agreements has the MS4 approved during the reporting period? 0

10. ENFORCEMENT

- A. Identify which of the following types of enforcement actions you used during the reporting period, indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater control) or note those for which you do not have authority:

Action	Construction	Permanent Stormwater Controls	Illicit Discharge	Authority?
Notice of violation	# <u>0</u>	# <u>0</u>	# <u>3</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Administrative fines	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Stop Work Orders	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Civil penalties	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Criminal actions	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Administrative orders	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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Other N/A #0 #0 #0

- B. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions in your jurisdiction? Yes No
- C. What are the 3 most common types of violations documented during this reporting period? Sediment controls not installed properly, sediment controls not maintained properly and tracking of debris onto streets.

11. PROGRAM RESOURCES

- A. What was your annual expenditure to implement the requirements of your MS4 NPDES permit and SWMP this past reporting period? \$14,100
- B. What is next year's budget for implementing the requirements of your MS4 NPDES permit and SWMP? \$15,000
- C. Do you have an independent financing mechanism for your stormwater program? Yes No
- D. If so, what is it/are they (e.g., stormwater fees), and what is the annual revenue derived from this mechanism?
 Source: N/A Amount \$
 Source: Amount \$
- E. How many full time employees does your municipality devote to the stormwater program (specifically for implementing the stormwater program vs. municipal employees with other primary responsibilities that dovetail with stormwater issues)? 0
- F. Do you share program implementation responsibilities with any other entities? Yes No

Entity	Activity/Task/Responsibility	Your Oversight/Accountability Mechanism
N/A		

12. EVALUATING/MEASURING PROGRESS

- A. What indicators do you use to evaluate the overall effectiveness of your Stormwater Management Program, how long have you been tracking them, and at what frequency? Note that these are not measurable goals for individual BMPs or tasks, but large-scale or long-term metrics for the overall program, such as in-stream macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

Indicator	Began Tracking (year)	Frequency	Number of Locations
E. coli	2011	Once per permit period.	4
Macroinvertebrate	2011	Once per permit period.	3

- B. Provide a summary of data (e.g., water quality information, performance data, modeling) collected in order to evaluate the performance of permanent stormwater controls installed throughout the system. This evaluation may include a comparison of current and past permanent stormwater control practices. N/A

13. STORMWATER MANAGEMENT PROGRAM UPDATE

- A. Describe any changes to the MS4 program during the reporting period including but not limited to:
- Changes adding (but not subtracting or replacing) components, controls or other requirements per paragraph 4.4.2.a of the permit. N/A
- Changes to replace an ineffective or unfeasible BMP per paragraph 4.4.2.b of the permit. N/A
- Information (e.g. additional acreage, outfalls, BMPs) on program area expansion based on annexation or newly urbanized areas. N/A
- Changes to the program as required by the division. Applied to be included in the QLP pilot program

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14. CERTIFICATION

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.”

Mr. Joel Staton, Mayor
 Printed Name and Title


 Signature

09/26/2012
 Date

Annual reports must be submitted in accordance with the requirements of subpart 5.4. (Reporting) of the permit. Annual reports must be submitted to the appropriate Environmental Field Office (EFO) by September 30 of each calendar year, as shown in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	540 McCallie Avenue STE 550	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 432-4015
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