



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 Cleveland		MS4 Permit Number: TNS075213
Contact Person: Christopher Broom		Email Address: cbroom@clevelandtn.gov
Telephone: (423) 479-1913		MS4 Program Web Address: www.clevelandtn.gov/stormwater
Mailing Address: 185 2 nd Street NE		
City: Cleveland	State: TN	ZIP code: 37311

What is the current population of your MS4? 55,000

What is the reporting period for this annual report? July 1 2017 to June 30 2018

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/)? If yes, attach a list. Yes No
- B. Are there established and approved TMDLs (<http://www.tn.gov/environment/article/wrws-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)? 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 of Cleveland has been designated as a Qualifying Local Program (QLP) for its efforts to monitor construction site activities. The City also provides information to homeowners on how to improve water quality through the distribution of flyers, brochures, and public outreach events. 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: Siltation Source, Leaf dumping in storm drains, Construction Site Runoff, Stream Buffers Yes No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: www.clevelandtn.gov/stormwater Yes No
- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: notices are run in the Cleveland Daily Banner and posted on the City's website and social media

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- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: Stream cleanups, household hazardous waste collection, community outreach events, student outreach, and Project Wet teacher education
- 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: Stream cleanups, household hazardous waste collection are successful at educating the public and removing trash and pollutants. Project Wet is successful at integrating water quality into the classroom

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? 1,078
- 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: Twenty-five percent of the outfalls are inspected yearly. The city uses complaint tracking software to track illicit discharges. Yes No
- F. How many illicit discharge related complaints were received this reporting period? 7
- G. How many illicit discharge investigations were performed this reporting period? 7
- H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? 3

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

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- 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
- F. How many active priority and non-priority construction sites were inspected this reporting period? 86
- G. How many construction related complaints were received this reporting period? 3

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: The buffer is based on drainage area. Less than 1 square mile the buffer is 30 feet. Greater than 1 square the buffer is 60 feet. 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.)? One acre disturbed and/or part of larger plan or any commercial with a drive thru
- D. How many development and redevelopment project plans were reviewed for this reporting period? 106
- E. How many development and redevelopment project plans were approved? 19
- F. How many permanent stormwater related complaints were received this reporting period? 2
- G. How many enforcement actions were taken to address improper installation or maintenance? 2
- 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. If water quality and/or quantity cannot be addressed on site, then the developer has the option to pay into the stormwater mitigation bank. Factors that are considered include cost of construction and maintenance. 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

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- Salt and storage locations? Yes No
- Snow disposal areas? Yes No
- Waste disposal, storage, and transfer stations? Yes No
- 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. 1- Outfall inspections was modified from 100% inspected yearly to twenty percent yearly. At the end of the permit cycle 100 percent of all outfalls will be inspceted.
- Changes to the program as required by the division to satisfy permit requirements. 0
- Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. The City annexed 88.77 acres during this reporting period.
- 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. Staff uses the TDEC MS4 Audit Worksheet Yes No

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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>164</u>	# <u>12</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Written notices	# <u>2</u>	# <u>0</u>	# <u>3</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Citations with administrative penalties	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Stop work orders	# <u>1</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Withholding of plan approvals or other authorizations	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Additional Measures	# <u>0</u>	# <u>0</u>	# <u>0</u>	Describe: <u>N/A</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? No Erosion Controls, Mud Tracking, and BMP's not installed according to plan

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. Injection well permit testing
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. Outfall inspections
- 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."

Tom Rowland, Mayor
Printed Name and Title


Signature

8-29-18
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

Attachments

Attachment "A": List of Waters with Unavailable Parameters

Attachment "B": List of TMDL's

Attachment "C": List of Exceptional Tennessee Waters

Attachment "D": Stormwater Division Organizational Chart

Attachment "A": List of Waters with Unavailable Parameters

Waters with Unavailable Parameters	
Waterbody Name	Waterbody ID
Candies Creek	TN06020002005_2000
South Mouse Creek	TN06020002009_2000
South Mouse Creek	TN06020002009_1000
Woolen Mill Branch	TN06020002009_0300
Fillauer Creek	TN06020002009_0200
Little Chatata Creek	TN06020002012_0200

Attachment "B": List of TMDL's

Total Maximum Daily Load (TMDL) For Pathogens		
Waterbody Name	Waterbody ID	TMDL (% Red.)
South Mouse Creek	TN06020002009_2000	>92.4
Woolen Mill Branch	TN06020002009_0300	>92.4
Fillauer Creek	TN06020002009_0200	>92.4
Little Chatata Creek	TN06020002012_0200	87.2

Total Maximum Daily Load (TMDL) For Siltation and Habitat Alteration				
Waterbody Name	Waterbody ID	TMDL (Required Overall Load Reduction) %	WLA (MS4s and Construction SW) %	LA (Nonpoint Sources) %
Candies Creek	TN06020002005_2000	50.1	52.6	52.6
South Mouse Creek	TN06020002009_2000	43.1	46	46
Woolen Mill Branch	TN06020002009_0300	43.1	46	46
Fillauer Creek	TN06020002009_0200	43.1	46	46
Little Chatata Creek	TN06020002012_0200	51.2	53.6	53.6

Attachment "C": List of Exceptional Tennessee Waters

Exceptional Tennessee Waters	
Waterbody Name	Waterbody ID
Spring Branch	TN06020002005_0410
Bigsby Creek	TN06020002005_0800

Attachment “D”: Stormwater Division Organizational Chart

Stormwater Management

