



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 Clarksville		MS4 Permit Number: TN075205
Contact Person: Ashlie Farmer		Email Address: Ashlie.Farmer@CityofClarksville.com
Telephone: (931) 645-7464		MS4 Program Web Address: http://www.cityofclarksville.com/index.aspx?page=774
Mailing Address: 199 10th Street		
City: Clarksville	State: TN	ZIP code: 37040

What is the current population of your MS4? 150,287 Census.gov population estimate as of July 1st, 2016

What is the reporting period for this annual report? July 1 2016 to June 30 2017

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/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)? 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: ____ 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: Sediment from construction activities, Habitat Alterations and Nutrient- Discharges from MS4 Yes No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: <http://www.cityofclarksville.com/index.aspx?page=774> Yes No

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- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: City of Clarksville events calendar, Leaf Chronicle Newspaper, online community event calendars, Facebook page and website.
- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: Gave out 132 water quality brochures and 281 promotional items to people attending the 2016 Josten's Fall+Eco Fest. Also collected sustainability survey responses from 59 people which were included as part of the Clarksville Montgomery County Sustainability Report. This report was published in the Spring of 2017.
Gave out 97 water quality brochures and 193 promotional items including pencils and stickers to people attending the 2016 Riverfest event.
Partnered with Montgomery County and UT to offer the Level 1 EPSC training class in October of 2016. A total of 57 people attended the workshop and became certified.
Participated in the Moore Magnet School STEM Showcase in November of 2016. Spoke to several teachers and students about Green Infrastructure and Low Impact Development practices.
Participated in the Tennessee Environmental Council's "Conservation Education Day" event held at the State Capital in February 2017. We gave away 38 water quality brochures and spoke with several representatives regarding the Low Impact Development portion of the MS4 program.
Gave out 32 water quality brochures and promotional items during the 2017 Rivers and Spires event.
Partnered with Montgomery County and UT to offer the Level 1 EPSC training class in May of 2017. A total of 62 people attended and became certified.
Gave out 60 water quality bags which included brochures, pencils, stickers and other items, to 35 people attending the 2017 rain barrel workshop. A total of 30 rain barrels were sold at \$40 each, raising a total of \$1200 for the Cumberland River Compact.
Hosted two Kenwood Middle School teachers for a two day STEM Externship. Both teachers were provided a bag full of water quality related teaching materials and promotional items to share with their upcoming classes.
- 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: During the Josten's Fall+Eco Fest, sustainability survey responses were collected from 59 people which were included as part of the Clarksville Montgomery County Sustainability Report. This report was published in the Spring of 2017.
Partnered with Montgomery County and UT to offer the Level 1 EPSC training class in October of 2016. A total of 57 people attended the workshop and became certified.
Partnered with Montgomery County and UT to offer the Level 1 EPSC training class in May of 2017. A total of 62 people attended and became certified.
During the 2017 rain barrel workshop, a total of 30 rain barrels were sold at \$40 each, raising a total of \$1200 for the Cumberland River Compact.

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

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- 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? 1822
- 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: Dry weather screening performed annually on a portion of outfalls. Yes No
- F. How many illicit discharge related complaints were received this reporting period? 12
- G. How many illicit discharge investigations were performed this reporting period? 6
- H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? 6

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? 103
- F. How many active priority and non-priority construction sites were inspected this reporting period? 103
- G. How many construction related complaints were received this reporting period? 10

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 redevelopment projects? Yes No

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A process to ensure stormwater control measures (SCMs) are properly installed and maintained? Yes No

Permanent water quality riparian buffers? If yes, specify requirements: New land disturbing activities along, adjacent to, or near streams shall establish, protect, and maintain a perpetual 60' water quality buffer. Zone 1 will begin at the top of bank and extend horizontally and perpendicular to the stream for 30 feet. It will consist of trees and deep-rooted vegetation and shall remain undisturbed. Zone 2 will begin at the outer edge of Zone 1 and extend landward 30 feet, making the combined width of the zones 60 feet. Grading and re-vegetating in Zone 2 is allowed provided that the health of Zone 1 is not compromised. All land development activity shall establish and maintain a 30-foot grass buffer along all ponds, lakes, and other water bodies. All land development activity shall establish and maintain a 30-foot wide water quality buffer adjacent to all wetlands. 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.)? Projects disturbing 10,000 square feet or more; grading associated with maintenance, landscaping, excavation or placement of fill disturbing more than 100 cubic feet of soil; hot spots

D. How many development and redevelopment project plans were reviewed for this reporting period? 58

E. How many development and redevelopment project plans were approved? 59

F. How many permanent stormwater related complaints were received this reporting period? 0

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. _____ 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

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. Public Education and Outreach PIE plan expanded and better organized with specific details recorded for each event. Public Involvement and Participation Program has been expanded to include an improved and more informative website. Illicit Discharge Detection and Elimination program being improved through a revised and more clearly defined Enforcement Response Plan.
 Changes to the program as required by the division to satisfy permit requirements. The Enforcement Response Plan now includes a Chronic Violator List and components to reduce non-compliance. Pollution Prevention/Good Housekeeping for Municipal Operations program currently being reviewed and updated to meet requirements of the current MS4 permit.

Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. None

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. Enforcement Response Plan will be revised and implemented in the next reporting period. It will include more clearly defined enforcement responses and a Chronic Violator List. Pollution Prevention/Good Housekeeping for Municipal Operations program will be fully updated to meet requirements of the current MS4 permit. Construction Site Stormwater Runoff Pollutant Control and Permanent Stormwater Management at New Development and Redevelopment programs to be modified for various issues including sediment runoff and identification of LID areas.

X 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. _____

X 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	# _____	# _____	# _____	X Yes	□ No
Written notices	# <u>6</u>	# _____	# <u>1</u>	X Yes	□ No
Citations with administrative penalties	# _____	# _____	# _____	X Yes	□ No
Stop work orders	# <u>5</u>	# _____	# _____	X Yes	□ No
Withholding of plan approvals or other authorizations	# _____	# _____	# _____	X Yes	□ No
Additional Measures	# _____	# _____	# _____	Describe: _____	

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- 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?
mud/sediment in the street, EPSC measures absent or EPSC measures not maintained.

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. None
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. None
- C. If applicable, are monitoring records for activities performed during this reporting period submitted with this report. Yes No

11. 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."

Kim McMillan Mayor Kim McMillan 9/12/17
 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