



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 Gatlinburg		MS4 Permit Number: TNS075655
Contact Person: Mike Werner		Email Address: mwerner@gatlinburgtn.gov
Telephone: (865) 436-1400		MS4 Program Web Address: http://gatlinburgtn.gov/index.php/planning-department/storm-water.html
Mailing Address: PO Box 5		
City: Gatlinburg	State: Tn	ZIP code: 37738

Name of MS4: City of Pigeon Forge		MS4 Permit Number: TNS 075655
Contact Person: Mayor David Wear		Email Address: dwear@cityofpigeonforge.com
Telephone: (865) 453-9061		MS4 Program Web Address: http://cityofpigeonforge.com/storm-water.aspx
Mailing Address: 225 Pine Mtn Rd/ PO Box 1350		
City: Pigeon Forge	State: Tn	ZIP code: 37863

Name of MS4: Sevier County		MS4 Permit Number: TNS 075655
Contact Person: Mayor Larry Waters		Email Address: lwaters@seviercountyttn.gov
Telephone: (865) 429-4580		MS4 Program Web Address: http://www.seviercountyttn.org/index.php?option=com_content&view=article&id=279&Itemid=268
Mailing Address: 125 Court Ave		
City: Sevierville	State: Tn	ZIP code: 37862

Name of MS4: City of Sevierville		MS4 Permit Number: TNS 075655
Contact Person: Mayor Bryan Atchley		Email Address: batchley@seviervilletn.org
Telephone: (865) 453-5504		MS4 Program Web Address: http://seviervilletn.org/index.php/business/stormwater.html
Mailing Address: 120 Gary Wade Blvd		
City: Sevierville	State: Tn	ZIP code: 37862

What is the current population of your MS4? 95,110

What is the reporting period for this annual report? July1 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.
- GT Yes No
 PF Yes No
 SC Yes No
 SV Yes No
- [See Page 13](#)
- 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.
- GT Yes No
 PF Yes No
 SC Yes No
 SV Yes No
- [See Page 13](#)
- 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.
- GT Yes No
 PF Yes No
 SC Yes No
 SV Yes No
- [See Page 14](#)
- 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: Construction and Post Construction permit compliance, IDDE and ERP implementation
- GT Yes No
 PF Yes No
 SC Yes No
 SV 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)?
- GT Yes No
 PF Yes No
 SC Yes No
 SV 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: Oil and petroleum, solvents, grease, nitrates, herbicides, and pesticides, sediment
- GT Yes No
 PF Yes No
 SC Yes No
 SV Yes No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: Links provided in MS4 Information section above
- GT Yes No
 PF Yes No
 SC Yes No
 SV Yes No

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- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: Newspaper of daily circulation and web page advertisement
- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period:
1. Stormwater participated and partnered in advertising both River and Roads clean ups and Haz Mat Day
 2. Earth Day presentations in Gatlinburg with NRCS
 3. Assisted in funding Water Quality Education for all 2nd, 4th, and 6th grade students county wide
 4. Held a Public Hearing for review of the annual report
 5. Participated in clean ups with Keep Sevier Beautiful
 6. Participated in two Clean Ups for debris removal from stream channels in the Fire Zone
 7. Conducted Education presentations with NRCS for Farm days – over 1000 students, teachers, chaperones viewed the presentations
 8. Attended 3 Stormwater Regional meetings to give updates on the Education Committee progress and Demolition progress after the disaster
 9. Presented 2 Demolition procedures workshops for Contractors
 10. Conducted 2 Demolition education workshops for HOAs
 11. Conducted Damage Assessments for the Fire Area with volunteers
 12. Conducted a Volunteer Streambank Stabilization at the new Demolition Land Field with AmeriCorp Volunteers
- 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: A grant was obtained to conduct hydroseeding of over 170 miles of road side embankment stabilization within the Fire Area for erosion prevention. The work was completed between March and June 2017.

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?
- GT Yes No
PF Yes No
SC Yes No
SV 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 sewerhed of that outfall, and general direction of stormwater flow?
- GT Yes No
PF Yes No
SC Yes No
SV Yes No

- C. How many outfalls have you identified in your storm sewer system?

GT 278 – last years numbers included estimates for all tiles as well as outfalls

PF 368

SC 610 – last years numbers included estimates of previously mapped numbers from 2008

SV 640

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D. Do you have an ordinance, or other regulatory mechanism, that prohibits non-stormwater discharges into your storm sewer system? GT Yes No

PF Yes No

SC Yes No

SV 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: Complaints, Mapping, dry weather screening, Recently were able to work out an agreement with all sewer systems to share layers of all sewer lines for identifying unsewered areas for grey stream sampling

GT Yes No

PF Yes No

SC Yes No

SV Yes No

F. How many illicit discharge related complaints were received this reporting period?

GT 4

PF 5

SC 11

SV 2

G. How many illicit discharge investigations were performed this reporting period?

GT 4

PF 5

SC 11

SV 2

H. Of those inspections performed, how many resulted in valid illicit discharges that were addressed and/ or eliminated?

GT 2

PF 5

SC 11

SV 2

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?

GT Yes No

PF Yes No

SC Yes No

SV Yes No

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Construction site operators to control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste?

GT Yes No
PF Yes No
SC Yes No
SV 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)?

GT Yes No
PF Yes No
SC Yes No
SV Yes No

B. Do you have specific procedures for construction site plan (including erosion prevention and sediment BMPs) review and approval?

GT Yes No
PF Yes No
SC Yes No
SV Yes No

C. Do you have sanctions to enforce compliance?

GT Yes No
PF Yes No
SC Yes No
SV Yes No

D. Do you hold pre-construction meetings with operators of priority construction activities and inspect priority construction sites at least monthly?

GT Yes No
PF Yes No
SC Yes No
SV Yes No

E. How many construction sites disturbing at least one acre or greater were active in your jurisdiction this reporting period?

GT 10
PF 15
SC 247
SV 9

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F. How many active priority and non-priority construction sites were inspected this reporting period?

GT 14

PF 15

SC 48 SC also conducted 495 Demolition inspections

SV 9

G. How many construction related complaints were received this reporting period?

GT 4

PF 2

SC 5

SV 1

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?

GT Yes No

PF Yes No

SC Yes No

SV Yes No

B. Do you have an ordinance or other regulatory mechanism requiring:

GT Yes No

PF Yes No

SC Yes No

SV Yes No

Site plan review and approval of new and re-development projects?

GT Yes No

PF Yes No

SC Yes No

SV Yes No

A process to ensure stormwater control measures (SCMs) are properly installed and maintained?

GT Yes No

PF Yes No

SC Yes No

SV Yes No

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Permanent water quality riparian buffers? If yes, specify requirements:

GT Yes No

PF Yes No

SC Yes No

SV 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?

GT 2

PF 15

SC 6

SV 35

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

GT 2

PF 15

SC 5

SV 35

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

GT 1

PF 7

SC 2

SV 0

G. How many enforcement actions were taken to address improper installation or maintenance?

GT 5

PF 2

SC 0

SV 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?

GT Yes No

PF Yes No

SC Yes No

SV Yes No

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- I. Does your program include an off-site stormwater mitigation or payment into public stormwater fund? If yes, specify. SV - The City Engineer may allow off-site mitigation at another location within the same USGS 12-digit hydrologic unit code as the original project provided mitigation be a minimum of 1.5 times the amount of water not managed on site.
- GT Yes No
PF Yes No
SC Yes No
SV 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?

- GT Yes No
PF Yes No
SC Yes No
SV Yes No

Municipal parking lots?

- GT Yes No
PF Yes No
SC Yes No
SV Yes No

Maintenance and storage yards?

- GT Yes No
PF Yes No
SC Yes No
SV Yes No

Fleet or maintenance shops with outdoor storage areas?

- GT Yes No
PF Yes No
SC Yes No
SV Yes No

Salt and storage locations?

- GT Yes No
PF Yes No
SC Yes No
SV Yes No

Snow disposal areas?

- GT Yes No
PF Yes No
SC Yes No
SV Yes No

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Waste disposal, storage, and transfer stations?

GT Yes No
PF Yes No
SC Yes No
SV 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?

GT Yes No
PF Yes No
SC Yes No
SV Yes No

If yes, are new applicable employees trained within six months, and existing applicable employees trained and/or retrained within the permit term?

GT Yes No
PF Yes No
SC Yes No
SV 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. Education component within the grey stream sampling plan will be conducted in conjunction with Waste Water departments – not just done by the Stormwater MS4's.

Changes to the program as required by the division to satisfy permit requirements. N/A

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. _____

GT Yes No
PF Yes No
SC Yes No
SV 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. _____
- GT Yes No
 PF Yes No
 SC Yes No
 SV 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				
GT	# <u>10</u>	# <u>0</u>	# <u>2</u>	GT <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
PF	# <u>2</u>	# <u>0</u>	# <u>0</u>	PF <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SC	# <u>0</u>	# <u>2</u>	# <u>11</u>	SC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SV	# <u>3</u>	# <u>0</u>	# <u>2</u>	SV <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Written notices				
GT	# <u>1</u>	# <u>0</u>	# <u>0</u>	GT <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
PF	# <u>0</u>	# <u>1</u>	# <u>0</u>	PF <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SC	# <u>3</u>	# <u>0</u>	# <u>0</u>	SC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SV	# <u>0</u>	# <u>0</u>	# <u>0</u>	SV <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Citations with administrative penalties				
GT	# <u>1</u>	# <u>0</u>	# <u>0</u>	GT <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
PF	# <u>0</u>	# <u>0</u>	# <u>0</u>	PF <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SC	# <u>0</u>	# <u>0</u>	# <u>0</u>	SC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SV	# <u>0</u>	# <u>0</u>	# <u>0</u>	SV <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Stop work orders				
GT	# <u>0</u>	# <u>0</u>	# <u>0</u>	GT <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
PF	# <u>1</u>	# <u>0</u>	# <u>0</u>	PF <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SC	# <u>0</u>	# <u>0</u>	# <u>0</u>	SC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SV	# <u>0</u>	# <u>0</u>	# <u>0</u>	SV <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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Withholding of plan approvals or other authorizations

	# <u>0</u>	# <u>0</u>	# <u>0</u>	GT <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
GT	# <u>0</u>	# <u>0</u>	# <u>2</u>	PF <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
PF	# <u>2</u>	# <u>0</u>	# <u>0</u>	SC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SC	# <u>0</u>	# <u>0</u>	# <u>0</u>	SV <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SV				

Additional Measures/
Complaints

SC	# <u>3</u>	# _____	# _____	Describe: <u>Complaints required NOV with civil penalties</u>
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- GT Yes No
 PF Yes No
 SC Yes No
 SV Yes No

C. Do you track instances of non-compliance and related enforcement documentation?

D. What were the most common types of non-compliance instances documented during this reporting period?
Improper BMP installation, sediment discharge, silt fence not being 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. Sevier Stormwater did grey stream sampling on a single trib of the West Prong of the Little Pigeon. Source tracking sampling was conducted. A visual assessment of the stream was conducted and a meeting with the appropriate Waste Water manager was conducted to discuss how to proceed with further evaluations jointly including education handouts during repairs in the near future. This was our trial run at our proposed analytical sampling plan.
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. The anticipated results prompted 2 meetings with Stormwater and managers from all three Waste Water programs to discuss our new monitoring program and how it differs from what we had been doing. A question and answer session came from both meetings about how to work together with monitoring as well as when and how to exchange data for any new streams that may be failing to meet water quality standards and how this may be attacked together in the future if the sewer system is identified as the source along with sampling before repairs as well as sampling after repairs to document any impacts the repairs make on the stream.
- C. If applicable, are monitoring records for activities performed during this reporting period submitted with this report.

- GT Yes No
 PF Yes No
 SC Yes No
 SV Yes No

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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."

Mayor Mike Werner

Printed Name and Title

Signature

Date

Mayor David Wear

Printed Name and Title

Signature

Date

Mayor Larry Waters

Printed Name and Title

Signature

Date

Mayor Bryan Atchley

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

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Attached List of streams with Unavailable Parameters and Approved TMDL's

Waterbody I.D. #	Cause/TMDL Priority	Approved TMDL
TN06010107010-0100 Gnatty Branch	e-coli/ septic tanks	<input type="checkbox"/> <i>Yes</i> <input checked="" type="checkbox"/> <i>No</i>
TN06010107010-0300 Beech Branch	e-coli/ septic tanks	<input type="checkbox"/> <i>Yes</i> <input checked="" type="checkbox"/> <i>No</i>
TN06010107010-1910 Cove Creek	e-coli/ septic tanks	<input type="checkbox"/> <i>Yes</i> <input checked="" type="checkbox"/> <i>No</i>
TN06010107010-1950 Waldens Creek	Loss of biological integrity due to sediment/ land development	<input checked="" type="checkbox"/> <i>Yes</i> <input type="checkbox"/> <i>No</i>
TN06010107038-1000 Dumplin Creek	Loss of biological integrity due to sediment/ land development	<input checked="" type="checkbox"/> <i>Yes</i> <input type="checkbox"/> <i>No</i>
TN06010107007-1650 Middle Creek	Chlorine e-coli/ discharges from MS4	<input type="checkbox"/> <i>Yes</i> <input checked="" type="checkbox"/> <i>No</i>
TN06010107007-2000 Little Pigeon River	e-coli/ septic tanks collection system failure	<input type="checkbox"/> <i>Yes</i> <input checked="" type="checkbox"/> <i>No</i>
TN060100107010-0400 Dudley Creek	e-coli/ discharges from MS4	<input type="checkbox"/> <i>Yes</i> <input checked="" type="checkbox"/> <i>No</i>
TN06010107010-0600 Baskins Creek	e-coli/ collection system failure	<input type="checkbox"/> <i>Yes</i> <input checked="" type="checkbox"/> <i>No</i>
TN06010107010-1000, TN06010107010-2000, TN06010107010-3000, TN06010107010-4000 West Prong Little Pigeon River	e-coli, loss of biological integrity due to siltation, total phosphorus,	<input checked="" type="checkbox"/> <i>Yes</i> <input type="checkbox"/> <i>No</i>
TN06010170010-1800 Mill Creek	Habitat alteration, e-coli, discharge MS4, channelization	<input checked="" type="checkbox"/> <i>Yes</i> <input type="checkbox"/> <i>No</i>

List of Exceptional Water

Exceptional Tennessee Waters and Outstanding Natural Resource Waters

French Broad River

Leconte Creek

Noisy Creek

Norton Creek

Redwine Creek

Roaring Fork Creek

Seng Branch

Soak Ash Creek

Texas Creek

Timothy Creek

Tuckahoe Creek

Wilhite Creek

Flat Creek

West Prong Little Pigeon River

Little Pigeon River including Middle Prong - **ONRW**