



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: Rutherford County Government		MS4 Permit Number: TNS07647
Contact Person: Shelia Huffmire		Email Address: shuffmire@rutherfordcountytg.gov
Telephone: (615) 907-3546		MS4 Program Web Address: http://stormwater.rutherfordcountytg.gov/
Mailing Address: #1 S public Square Suite 200		
City: Murfreesboro	State: TN	ZIP code: 37130

What is the current population of your MS4? 91823

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/)? 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: No, aside from more stringent buffers and TDEC GCP requirements. 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: Hot Spots, pesticides/herbicide users Yes No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: http://stormwater.rutherfordcountytg.gov/ Yes No
- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: In the local newspaper, facebook, and our website, and EE statewide website

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- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: General Education included the following: Project WET trains teachers and educates students all over Rutherford County, events such as Earth Day 2019 and Annual Waterfest, Autumn in the Oaks @ Oaklands Mansion, Heritage Days @Sam Davis Home, presentations at Master Gardeners and Farmer's Market, reached out to new audiences using Facebook Public Service Annoucements, and Statewide teacher conference presentations. Targeted education included the following: participated in events such as Murfreesboro City's Tree Day and Park Day @ Old Fort Park riparian restoration event, Household Hazardous Water Event and drug drop off bin, contractor/developer pre-construction education, flyers to builders about sediment prevention, staff training for sediment prevention, illicit discharge, and goodhousekeeping.
- 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: Project WET in Rutherford County educated 782 children, 88 teachers were trained, and were stormwater educated. Earth Day 2019 several hundred citizens came to the booth. 36 maps, 3 booklets, and 224 promo items were passed out to citizens. Participated in Murfreesboro City's Tree Day with many county residents involved and mailed 32 letters to homeowners with stream buffers about importance of buffers and information about Tree Day. 575 tree seedlings handed out. Park Day had 70 volunteers, 2095 invasive plants removed and 120 lbs. of trash removed from Lytle Creek. Removed 8927lbs. of household hazardous waste from the county, 1021 lbs. of prescription drugs collected, and 104 page views on the website. Waterfest educated 1170 students and had over 218 volunteers.

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? 427
- 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: Visual Stream Assessment walking annually, follow up on complaints by phone and website Yes No
- F. How many illicit discharge related complaints were received this reporting period? 0
- G. How many illicit discharge investigations were performed this reporting period? 0
- H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? 0

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

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- 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? 122 sites this permit period
- F. How many active priority and non-priority construction sites were inspected this reporting period? all active
- G. How many construction related complaints were received this reporting period? 22 Complaints ; 1 land disturbance, 2 mud tracking, 1 permanent stormwater and 4 construction
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: average of 60 ft and 30 feet depending on 303d list status and drainage basin size 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.)? 15,000 sq ft
- D. How many development and redevelopment project plans were reviewed for this reporting period? 56 subdivision and site plans submitted
- E. How many development and redevelopment project plans were approved? 19 pre- construction meetings were held and 111 Final Plats recorded
- F. How many permanent stormwater related complaints were received this reporting period? 1
- G. How many enforcement actions were taken to address improper installation or maintenance? 1
- 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. N/A
 Changes to the program as required by the division to satisfy permit requirements. Stormwater Ordinance was updated to include proper board of appeals. Ordinance will need to be ammended next year to encompass 30' GCP construction buffers and make sure Post Construction SCMs are required for exceptional streams and unavailable parameter streams for over 5 acres as determined by the permit.
 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. Overall, Rutherford County's program is running smoothly. Training programs set in place don't seem to be working so additional review of training program is needed. Construction inspection program is looking into using Survey 123 (a GIS tracking system) for inspection and construction enforcement. SWPPP inspections need to be more regular and should be completed annually. Post Construction pond and parking lot inspections are being completed every year which is a large undertaking. Planning and Engineering will be moving to a digital tracking system in the coming years. 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>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Written notices	# <u>1</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>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Additional Measures	# _____	# _____	# _____	Describe: _____	

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?
Siltation in Road or working without a permit

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. MTSU contract is in place for collection of samples.

B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. Annual VSA this year with student interns.

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."

Bill Ketron, County Mayor
Printed Name and Title


Signature

9/12/19
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

Rutherford County Exceptional Streams 2019

HUC	Watershed Name	Waterbody	County	Description	Basis for Inclusion	From Lat	To Lat	From Long	To Long	Inclusion Date
5130203	Stones	Bryant Branch	Rutherford	Portion in Long Hunter SP.	Long Hunter State Park	36.0813	36.0894	-86.5196	-86.5144	
5130203	Stones	Dry Branch	Rutherford	Portion in Overbridge SNA.	Overbridge SNA	35.8482	35.844	-86.2781	-86.2897	
5130203	Stones	West Fork Stones River	Rutherford	From Panther Creek to headwaters.	Exceptional biological diversity. WPC ecoregion reference stream for 71i.	35.7444	35.647	-86.4335	-86.438	APR-10-2003
5130203	Stones	Hoover Swamp Black Fox Wetland	Rutherford	Hoover Swamp area of Black Fox Wetland.	Scored 80 (exceptional category) on TN Rapid Assessment for Wetlands.	35.8139		-86.3603		
5130203	Stones	Bear Branch	Rutherford	From Dry Branch to origin.	State endangered Blackfoot Quillwort.	35.9153	35.8735	-86.3671	-86.3667	NOV-01-2007
5130203	Stones	Sinking Creek	Rutherford	From unnamed tributary at Sulphur Sprigs Road to origin.	State endangered Sessile Water-Speedwell.	35.883	35.846	-86.3989	-86.372	NOV-07-2007
5130203	Stones	East Fork Stones River	Rutherford	From Cripple Creek to unnamed tributary near Halls Hill.	State threatened Water Stitchwort.	35.8807	35.8746	-86.2644	-86.2366	NOV-09-2007
5130203	Stones	West Fork Stones River	Rutherford	From Sinking Creek to Lytle Creek.	State threatened Water Stitchwort.	35.9013	35.855	-86.4237	-86.4139	NOV-09-2007
5130203	Stones	West Fork Stones River Unnamed Tributary	Rutherford	From West Fork Stones River to Origin	State threatened Yellow Sunnybell	35.9546	35.9515	-86.4557	-86.4468	NOV-13-2007
5130203	Stones	West Fork Stones River Unnamed Tributary	Rutherford	From West Fork Stones River to origin.	State threatened Yellow Sunnybell, Sunnybell Cedar Glade State Natural Area.	35.9671	35.9681	-86.4563	-86.4422	NOV-13-2007
5130204	Harpeth	Puckett Branch	Rutherford	From Concord Creek to State Highway 99.	State endangered Willow Aster	35.7441	35.7337	-86.595	-86.5876	APR-23-2009

5130203	Stones	Puckett Creek	Rutherford	Puckett Creek from confluence with Overall Creek to headwaters.	State endangered streamside salamander Ambystoma barbouri.	35.867736	35.808105	-86.471543	-86.471886	JAN-31-2019
5130203	Stones	Dry Creek	Rutherford	confluence with Hurricane Creek to origin.	Ambystoma barbouri	35.717327	35.739729	-86.285638	-86.25607	JAN-31-2019
5130203	Stones	Middle Fork Stones River Unnamed tributary	Rutherford	Unnamed tributary from confluence at river mile 12.1 Middle Fork Stones River near Sledge Bridge to origin including tributaries.	State endangered streamside salamander Ambystoma barbouri.	35.713689	35.664125	-86.3319	-86.3333756	JAN-31-2019
5130203	Stones	Knox Branch	Rutherford	Knox Branch from confluence with Hurricane Creek to origin.	State endangered streamside salamander Ambystoma barbouri	35.7316921	35.737927	-86.312158	-86.265337	JAN-31-2019
5130203	Stones	Long Creek	Rutherford	Long Creek from confluence with Middle Fork Stones River to origin.	State endangered streamside salamander Ambystoma barbouri	35.756689	35.704491	-86.363077	-86.384312	JAN-31-2019
5130203	Stones	Short Creek	Rutherford	Short creek from confluence with Henry Creek to origin.	State endangered streamside salamander Ambystoma barbouri.	35.710491	35.623	-86.369389	-86.376075	JAN-31-2019
5130203	Stones	Buzzard Branch	Rutherford	Buzzard Branch from confluence with Middle Fork Stones River to origin.	State endangered streamside salamander Ambystoma barbouri.	35.748434	35.706558	-86.354666	-86.354451	JAN-31-2019
5130203	Stones	Lytle Creek Unnamed Tributary	Rutherford	Unnamed tributary from Lytle Creek to origin. Possibly in tribs.	State endangered streamside salamander Ambystoma barbouri.	35.747904	35.692	-86.422269	-86.419973	JAN-31-2019

5130203	Stones	Lytle Creek	Rutherford	Lytle Creek upstream of Johnson Road to origin.	State endangered streamside salamander Ambystoma barbouri.	35.755258	35.742458	-86.309241	-86.266176	JAN-31-2019
6040002	Duck-Upper	Weakly Creek	Rutherford	Unnamed tributary from confluence with Weakly Creek to origin.	State endangered streamside salamander Ambystoma barbouri.	35.64515	35.650593	-86.550945	-86.538103	JAN-31-2019
5130203	Stones	Lytle Creek Unnamed Tributary	Rutherford	Unnamed tributary to Lytle Creek - range may extend the entire tributary.	State endangered streamside salamander Ambystoma barbouri.	35.7845305	35.7858452	-86.356802	-86.3565169	JAN-01-2019
5130203	Stones	Middle Fork Stones River Unnamed Tributary	Rutherford	Unnamed tributary from confluence with Middle Fork Stones River at Miller Road to origin. May include other unnamed tributaries.	State endangered streamside salamander Ambystoma barbouri	35.700218	35.66522	-86.319456	-86.3240005	FEB-13-2019
5130203	Stones	Christmas Creek Unnamed Tributary	Rutherford	Unammed tributary from confluence with Christmas Creek to origin. May include tributaries.	State endangered streamside salamander Ambystoma barbouri.	35.748021	35.695132	-86.422351	-86.412223	FEB-13-2019
5130203	Stones	Lytle Creek	Rutherford	Lytle Creek from Johnson Road to origin.	State endangered streamside salamander Ambystoma barbouri.	35.756101	35.742517	-86.310958	-86.266326	FEB-13-2019

5130203	Stones	Lytle Creek Unnamed Tributary	Rutherford	Unnamed Tributary from confluence with Lytle Creek to origin. Not a blue line stream on topo. Lat and longs are observed locations by Division of Natural Areas on 12-16-15. Salamander is likely to occur in the entire tributary.	State endangered streamside salamander <i>Ambystoma barbouri</i> .	35.7845305	35.7858452	-86.356802	-86.3565169	FEB-13-2019
5130203	Stones	Overall Creek	Rutherford	Overall Creek including unnamed tributary from Windrow Road to origin.	State endangered streamside salamander <i>Ambystoma barbouri</i> .	35.811568	35.789501	-86.509768	-86.55058	FEB-13-2019
5130204	Harpeth	Nelson Creek	Rutherford	Nelson Creek from Rutherford County line to origin.	State endangered streamside salamander <i>Ambystoma barbouri</i> .	35.819421	35.798817	-86.612768	-86.597833	FEB-13-2019

303(d) Rutherford County 2018

ID305B	WATER_NAME	Length Impaired
TN06040002039_0300	Alexander Creek	21.1
TN05130203023_0310	Bear Branch	3.5
TN05130204018_0400	Cheatham Branch	3.4
TN05130203018_0210	Christmas Creek	12.3
TN05130204018_0200	Concord Creek	13.65
TN05130203018_0300	Dry Fork Creek	19.7
TN05130203036_0100	East Branch Hurricane Creek	7.3
TN05130203003T_0200	Finch Branch	5.7
TN05130204018_2000	Harpeth River	2.7
TN05130204018_3000	Harpeth River	7.39
TN05130203010_0300	Harts Branch	3.9
TN05130203036_1000	Hurricane Creek	8.5
TN05130203029_0100	Jarman Branch	4.4
TN05130204018_0300	Kelley Creek	5.91
TN05130203022_0200	Lees Spring Branch	1.1
TN05130203022_1000	Lytle Creek	8.9
TN05130203022_2000	Lytle Creek	10.1
TN05130203010_0200	Olive Branch	8.1
TN05130203018_0500	Panther Creek	10.5
TN05130203003_2000	Percy Priest Reservoir	282.53
TN05130203015_0100	Puckett Creek	6.7
TN05130203010_0310	Rock Spring Branch	5.6
TN05130203018_0100	Sinking Creek	5.5
TN05130203010_1000	Stewarts Creek	7
TN05130203010_2000	Stewarts Creek	5.5
TN05130203022_0100	Town Creek	0.13
TN05130203029_0200	Unnamed Trib to Bradley Creek	2.7
TN05130203029_0300	Unnamed trib to Bradley Creek	1.7
TN05130203023_0210	Unnamed Trib to Bushman Creek	0.37
TN05130204018_0220	Unnamed Trib to Concord Creek	1.23
TN05130203018_0400	Unnamed Trib to West Fork Stones River	2.65
TN05130203018_0600	Unnamed Trib to West Fork Stones River	5.87
TN05130203018_1000	West Fork Stones River	6.3
TN05130203018_2000	West Fork Stones River	1.3