

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

2.

3.

C Lo	ame of MS4: Hamilton County incluities/Towns of Collegedale, East Ridookout Mountain, Ridgeside, Red Band Walden	dge, Lakesite,	MS4 Permit Number: TN	NS075566		
Co	ontact Person: Crystal Bishop		Email Address: CrystalE	3@hamilton	tn.gov	
Т	elephone: (423) 209-7853		MS4 Program Web Addr hamiltontn.gov/waterqua			
М	ailing Address: 1250 Market St, Su	ite 3044				
С	ity: Chattanooga	State: TN	ZIP o	ode: 37402	2	
<u>Co</u>	nat is the current population of your unty minus Chattanooga and Signanat is the reporting period for this an	l Mountain)	(according to 2014 Censu July1 2017 to June 30 201		ata - Hamilto	<u>on</u>
Dis	scharges to Waterbodies with Unava	ailable Parameters	or Exceptional Tennessee	Waters (Se	ection 3.1)	
A.	Does your MS4 discharge into war to as impaired) for pathogens, nutr stormwater runoff from urbanized according to the on-line state GIS list.	rients, siltation or ot areas as listed on T	her parameters related to N's most current 303(d) lis	st and/or	⊠ 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 E http://environment-online.tn.gov:8080/ attach a list.	•	•	? If yes,	⊠ Yes	□ No
D.	Are you implementing specific Bes discharges to waterbodies with un specific practices: Yes, additional EPSC design criteria and greater to the specific practices of the specific Bes discharges to waterbodies with un specific Bes discharges to the specific B	available parametei protections as preso	rs or ETWs? If yes, descri cribed in the MS4 permit s	ibe the	⊠ Yes	□No
<u>Pu</u>	blic Education/Outreach and Involve	ement/Participation	(Sections 4.2.1 and 4.2.2)	<u>.</u>		
A.	Have you developed a Public Infor	rmation and Educat	ion plan (PIE)?		⊠ Yes	☐ No
B.	3. Is your public education program targeting specific pollogous? If yes, describe the specific pollutants and/or seducation program: NPS Pollution from urbanized and discharge from construction activity; pathogens and he discharges; pollutants from municipal operations.		sources targeted by your ր d municipal areas; sedime	oublic ent	⊠ Yes	□No
C.	C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: http://www.hamiltontn.gov/waterquality				⊠ Yes	□No

- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: Newspaper, website, and media releases from the County's Communications office.
- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: <u>see attachment</u>
- 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: We hosted several events that allowed citizen involvement; 28 participants were at our River Rescue location at Mountain Creek to remove litter from the creek. 20 educators at Project WET and 21 educators at Project WILD will have an exponential effect to teach youth about being good environmental stewards. We continue to supply pet waste bags (800 bags for this reporting period) for stations within county and municipal parks, which reduces pollution from pet wastes.

4.	Illic	it 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? 945		
	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: This is outlined in the Hamilton County Water Quality Field Screening SOP, which is availabe upon request.	⊠ Yes	□ No
	F.	How many illicit discharge related complaints were received this reporting period? $\underline{5}$		
	G.	How many illicit discharge investigations were performed this reporting period? 4		
	H.	Of those investigations performed, how many resulted in valid illicit discharges that were as eliminated? $\underline{4}$	ddressed and/	or
5.	<u>Co</u>	nstruction 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 juris period? $\underline{56}$	diction this rep	oorting
	F.	How many active priority and non-priority construction sites were inspected this reporting perconstruction site was inspected monthly at a minimum	eriod? <u>56; eac</u>	<u>h</u>
	G.	How many construction related complaints were received this reporting period? 26		
6.	<u>Pe</u>	rmanent Stormwater Management at New Development and Redevelopment Projects (Sect	ion 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 □ Yes	□ No
	B.	Do you have an ordinance or other regulatory mechanism requiring:		
		Site plan review and approval of new and re-development projects?		□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: <u>As descirbed in 2010 MS4 Permit (30 ft for drainage area under 1 square mile; 60 ft for drainage area equal to or greater than 1 square mile).</u>	⊠ Yes	□No
	C.	What is the threshold for development and redevelopment project plans plan review (e.g., a disturbing greater than one acre, etc.)? All projects within the Water Quality Program Bou acre or greater.		-
	D.	How many development and redevelopment project plans were reviewed for this reporting	period? <u>39</u>	
	E.	How many development and redevelopment project plans were approved? 29		
	F.	How many permanent stormwater related complaints were received this reporting period?	<u>0</u>	
	G.	How many enforcement actions were taken to address improper installation or maintenance	e? <u>15</u>	
	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.	Sto	rmwater Management for Municipal Operations (Section 4.2.6)		
	A.	As applicable, have stormwater related operation and maintenance plans that include informaintenance activities, schedules and the proper disposal of waste from structural and nor 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?		☐ 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
<u>Re</u>	viewing and Updating Stormwater Management Programs (Section 4.4)		
A.	Describe any revisions to your program implemented during this reporting period including	but not limited	d to:
	Modifications or replacement of an ineffective activity/control measure. No changes within	n the past yea	<u>r.</u>
	Changes to the program as required by the division to satisfy permit requirements. <u>none</u>		
	Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resprogram. No changes since filing the NOI	ulting updates	s to your
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. No modification seem necessary at this time. An NOI was completed less than 1 year ago; a full review of the program was performed at that time. Also, TDEC performed a Compliance Evaluation and Inspection (CEI) of the Construction Program in March 2017, and deemed the Program to be complaint with the Construction Requirements of the MS4 permit.	⊠ Yes	□No

8.

9. Enf	orcement Response P	lan (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 ☐ No specified in TCA 68-221-1106? If no, explain						
В.	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>	Construction	Permanent Stormwater	<u>Illicit</u> Discharge	In Your E	RP?	
Verl	bal warnings	# <u>20</u>	# <u>0</u>	# <u>4</u>		□No	
Writ	ten notices	# <u>4</u>	# <u>0</u>	# <u>1</u>		□No	
	tions with ninistrative penalties	# <u>2</u>	# <u>0</u>	# <u>0</u>	⊠ Yes	□ No	
Stop	o work orders	# <u>3</u>	# <u>0</u>	# <u>0</u>		□No	
арр	nholding of plan rovals or other norizations	# <u>0</u>	# <u>0</u>	# <u>0</u>	☐ Yes	⊠ No	
Add	litional Measures	# <u>0</u>	# <u>0</u>	# <u>0</u> De	escribe:		
C.	Do you track instance	es of non-compliance	and related enforce	ment documentation?		☐ No	
D.		• •	•	es documented during ters of the State, buffe			
10. <u>M</u>	onitoring, Recordkeepir	ng and reporting (Sec	tion 5)				
A.							
В.	Summarize any non-	analytical monitoring	activities (e.g., plann	ing, collection, evaluati ities were performed d			
C.	If applicable, are mo	nitoring records for ac	tivities performed du	ring this reporting perio	od 🗆 Vaa	∇Z Na	

11. Certification

submitted with this report.

☐ Yes

⊠ No

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."

Todd E. Leamon, Hamilton		
County Water Quality		
Program Committee		
Chairman		
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



2A. Waters with unavailable parameters into which HCWQP MS4 discharges:

WATERBODY ID# AND NAME OF WATERBODY	NATURE OF POLLUTANT (CAUSE) OR EXCEPTIONAL
TN06020001067_2010 Ninemile Branch	Siltation, E. coli; Low DO; Habitat Alteration
TN06020001426_1000 Mountain Creek	E. coli; Habitat Alteration
TN06010001426_0200 Stringers Branch	E. coli; Habitat Alteration; Nitrate/Nitrite
TN060200011244_0400 Gillespie Springs Branch	E. coli; Habitat Alteration; Nitrate/Nitrite; Ammonia
TN06020001007_0510 Spring Creek	Siltation; E. coli; Exceptional
TN06020001007_1000 South Chickamauga Creek	Habitat Alteration; Siltation; E. coli; Total Phosphorous; Exceptional
TN06020001889_1000 Wolftever Creek	E. coli
TN06020001889_0100 Little Wolftever Creek	E. coli
TN06020001880_1000 Rogers Branch	E. coli
TN06020001889_0400 Hunter Creek	Alteration in stream side or littoral vegetative cover; Habitat Alteration
TN06010001889_0300 Wilkerson Branch	E. coli
TN06020001087_1000 Shoal Creek	E. coli ; Exceptional
TN06020001067_0100 Unnamed tributary to North Chickamauga Creek	Siltation; Habitat Alteration; E.coli
TN06020001007_0300 Mackey Branch	Habitat Alteration; Siltation; E. coli; Exceptional

2B. List of TMDLs in HCWQP jurisdiction:

WATERBODY ID# AND NAME OF UNAVAILABLE WATERBODY	PARAMETERS OF CONCERN
TN06020001007_0510 Spring Creek	E.coli
TN0602000106_0210 Ninemile Branch	Siltation/Habitat Alteration



TN06020001007_1000 South Chickamauga Creek	Siltation/Habitat Alteration; E.coli
TN06020001067_2000 North Chickamauga Creek	Siltation/Habitat Alteration
TN060200011244_0400 Gillespie Springs Branch	Siltation/Habitat Alteration; E.coli
TN06020001426_0100 Stringers Branch	Siltation/Habitat Alteration; E.coli
TN06020001426_1000 Mountain Creek	Siltation/Habitat Alteration; E.coli
TN06020001889_1000 Wolftever Creek	E.coli

2C. List of ETWs into which HCWQP MS4 discharges:

TN06020001087_1000 Shoal Creek	E. coli; Exceptional
TN06020001067_2000 North Chickamauga Creek	Exceptional
TN06020001067_0310 Little Falling Water Creek	Exceptional
TN06020001067_0300 Falling Water Creek	Exceptional
TN06020001007_0500 West Chickamauga Creek	Exceptional
TN06020001007_0410 Johnson Branch	Exceptional
TN06020001007_0400 Hurricane Branch	Exceptional
TN06020001007_0310 Ryall Springs Branch	Exceptional
TN06020001007_0300 Mackey Branch	Habitat Alteration; Siltation; E. coli; Exceptional
Unnamed Tributary to Friar Branch	Exceptional
Unnamed Tributary to Lookout Creek	Exceptional
Unnamed Tributary Pitts Branch	Exceptional
Unnamed Tributary to West Chickamauga Creek	Exceptional

3E. Summary of Public Education, Outreach, Involvement and Participation Activities:



Date	Activity	Partners	Level of Participation	# of Participants
Annual Contract	Radio Advertisements	TAB and TNSA	Participate in statewide radio campaign.	TAB records available upon request.
7/1/17 to 6/30/18	Web views hamiltontn.gov/waterquality		Provide information to public	6,745
April 2018 and June/July 2018	Kids for Clean Water Camp	Audubon Acres, CaribbeanSEA	Sponsor materials, provide support staff at camp	63
10/7/17	Tennessee River Rescue	TN Aquarium, Reflection Riding, TWRA, and many more	Sponsor materials, staff clean up zone, organize volunteers	28 Participants at Mountain Creek Zone
10/17 – 10/19/17	TNSA Conference	TNSA and many others	Manager and Project Designer organized	238
10/11 – 10/13/17	SESWA Conference	Staff Member is SESWA President	Staff Members plan and attend meetings and conferences	235
7/1/17 to 6/30/18	Pet Waste Stations for East Ridge and Soddy Daisy Parks	City of East Ridge, City of Soddy Daisy	Purchase waste bags	Supplied 800 bags
2/10/18	Save Water Drink Wine	CaribbeanSEA, TN Aquarium, South Chick Creek Greenway Alliance, Reflection Riding, others	Sponsor, Staff planned and participated in event	75
2017-18 School Year	Red Bank Elementary School STEAM Project Support	Red Bank Elementary, CaribbeanSEA, City of Chattanooga	Assist STEAM Educator with lesson plans, sponsor activities	100 5 th grade students reached
Monthly Meetings	South Chickamauga Creek Greenway Alliance Meetings	SCCGA	Attend and Assist	Average of 25/meeting



Monthly Meeting Participation	Hamilton County Local Emergency Planning Committee	HC LEPC and many other agencies	Staff member sits on Executive Committee. Group provides education and training for various hazmat related responses.	20-25/meeting
Quarterly Meetings	Public Management Committee Meetings	Each participating jurisdiction	Public meetings of the Management Committee to discuss/update Program's policies & procedures	15-20/meeting
6/5/18	Project Wet Workshop	USFS, TNACI, Cleveland, Bradley County	Plan, sponsor, staff workshop	20
July 2017 – June 2018	TennesSEA Young Professional Board	Caribbean SEA	Program Manager and staff member serve on advisory board	10
6/21/18	TN American Water Fest	TN American Water	Staff hosted booth at the festival to provide information to public	300
9/23/17	Project WILD Workshop	City of Cleveland / Hosted at Audubon Acres	Staff planned workshop to provide teacher education	21

Target Audience:

- 1. General Public
- 2. Educators
- 3. Municipal Employees
- 4. School Aged Children & Their Families
- 5. Professionals (Engineers, Consultants, etc.)