

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

		ame of MS4: Knox County Stormwater N rogram	Management	MS4 Permit Number: TN	IS075582			
	C	ontact Person: Natalie Landry		Email Address: natalielandry@knoxcounty.org				
	To	elephone: (865) 215-5540		MS4 Program Web Addre knoxcounty.org/stormwat				
	М	ailing Address: 205 W Baxter Ave						
	С	ity: Knoxville Sta	ite: TN	ZIP co	ode: 37917			
	Wh	nat is the current population of your MS4	? <u>25</u> 1,784 ((MPC, 2017)		·		
	Wh	nat is the reporting period for this annual		uly1 <u>2019</u> to June 30 2020)			
2.	Dis	scharges to Waterbodies with Unavailable	e Parameters o	or Exceptional Tennessee	Waters (Sed	etion 3.1)	No	
		Does your MS4 discharge into waters we to as impaired) for pathogens, nutrients stormwater runoff from urbanized areas according to the on-line state GIS mapplist.	with unavailable s, siltation or oth s as listed on Tl	parameters (previously re ner parameters related to N's most current 303(d) lis	eferred t and/or	⊠ Yes	□No	
	B.	Are there established and approved TM ws-tennessees-total-maximum-daily-loa MS4 discharges in your jurisdiction? If	ad-tm <mark>d</mark> l-prograr	n) with waste load allocation		⊠ Yes	□ No	
	C.	Does your MS4 discharge to any Excephttp://environment-online.tn.gov:8080/pls/enattach a list.			If yes,	⊠ Yes	□ No	
	D.	Are you implementing specific Best Mar discharges to waterbodies with unavaila specific practices: The County consider priority construction activities. The addit the TNCGP are applied within the entire	able parameter s work within th tional requirem	s or ETWs? If yes, describ ne watershed of ETWs to b	oe the oe	⊠ Yes	□ No	
3.	<u>Pul</u>	blic Education/Outreach and Involvemen	t/Participation (Sections 4.2.1 and 4.2.2)				
	A.	Have you developed a Public Information	on and Education	on plan (PIE)?		Yes	☐ No	
	B.	Is your public education program targeting Spots? If yes, describe the specific polleducation program: The Storm Drain Stormwater infrastructure & keeping greatorm drain system. The Strong Stream	lutants and/or s tyle-Off initiativ een waste, oils /	sources targeted by your p e educates the public abo auto fluids & trash out of	ublic <u>ut</u>	⊠ Yes	□ No	
		encouraged & promoted planting & presences nutrient / fertilizer (nitrogen / phoprivate land uses. The Environmental Senutrients. The children's books target senutrients.	serving residen osphorous) inp stewardship Pro	tial streamside buffers to a uts into local waterways fro ogram targets sediment an	<u>om</u>			

C.	Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: www.knoxcounty.org/Stormwater	⊠ Yes	□ No
D.	Summarize how you advertise and publicize your public education, outreach, involvement opportunities: The Stormwater social media accounts, branded as Strong Streams, include Instagram and YouTube, are scheduled weekly based on events, success stories, green-frinstalled through the Environmental Stewardship Program and education campaigns. A new upcoming workshops & educational opportunities and other stormwater news is sent via erand posted on the website and Facebook page. Flyers are posted at local coffee shops, grand libraries. Free and paid listings for events and campaigns are put in local newspapers and seek out local journalists to promote events and issues important to residents.	e Facebook, Tiendly practice wsletter promenall to 500+ pocery stores a	witter, es oting eople and
E.	Summarize the public education, outreach, involvement and participation activities you con reporting period: Knox County Stormwater has conducted water quality lessons for childre and afterschool programs throughout the county through the use of the Enviroscape mode reality (AR) sandbox that shows how water reacts to topographic changes. School instruction 2020 due to COVID19 as did various scheduled outreach events. (Please refer to the attact and postponed events.) Staff participated the 2019 Powell Station Flotilla on Beaver Creek community event involving 200+ boaters floating down the creek. The event had an array of from the county and other community partners. At the first half of the permit year, we partice community events including John Sevier Days and the Apple Festival. Knox County has an stream program and we conducted two orientations this year for new groups. We received address bacteria pollution in the Roseberry Creek watershed. The grant included funding for the old outdoor classroom at East Knox Elementary School, completed with rebuilding of the a riparian buffer. Knox County also participated in the Dogwood Home and Garden Show where the Water Quality Forum and the Rain Barrel Truckload sale that successfully sold 83 rates Knoxville area. In an effort to address dumping/blowing of leaves into the county ROW by I we mailed an educational letter to 50 local landscape and lawn care companies. Internally response training for the highway crews to educate the staff on spills that occur on county removed approximately 1,500 lbs of sediment off our Baxter Ave campus EPW during the seminary approximately 1,500 lbs of sediment off our Baxter Ave campus EPW during the seminary approximately 1,500 lbs of sediment off our Baxter Ave campus EPW during the seminary approximately 1,500 lbs of sediment off our Baxter Ave campus EPW during the seminary approximately 1,500 lbs of sediment off our Baxter Ave campus EPW during the seminary approximately 1,500 lbs of sediment off our Baxter Ave campus EPW durin	n in several serial and an augmon halted in Nahed list of care which was a serie educational ipated in man active adopted a grant from for the renovational ails and install with a booth on hin barrels in the renducted and cape core, we conducted to add and and cape core on a conducted to a	chools nented March nceled large booths y -a- TDA to ion of llation of rganized he mpanies, ed a spill e also
F.	Summarize any specific successful outcome(s) (e.g., citizen involvement, pollutant reduction improvement, etc.) fully or partially attributable to your public education and participation proporting period: Citizen involvement in our programs, events & activities has resulted in the metrics in Knox County in FY20:	ogram during	this
Add	opt-a-Stream Cleanup Events: 6		
Tra	sh Removed (pounds): 1,082		
Rai	in Gardens Installed:1_		
Gra	ass Swales replacing eroding ditches:12_		
	swales replacing eroding ditches: _2_		
	dents Educated: 923		
Ped	ople educated/Awareness Raised: 2,521		
<u>llfic</u>	it Discharge Detection and Elimination (Section 4.2.3)		
Α.	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

4.

	В.	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? 4595 outfalls		
	D.	Do you have an ordinance, or other regulatory mechanism, that prohibits non-stormwater discharges into your storm sewer system?	⊠Yes	□ No
	Ε.	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: Knox County is currently using many methods to detect, identify and eliminate illicit discharges. One method is through the dry weather screening program, which identifies hot spot areas in the County by utilizing land use maps, zoning maps, complaint tracking and SPAP and TDEC permits. We also issue Special Pollutant Abatement Permits (SPAPs) to "hot spot" businesses, which include automotive and restaurant related businesses as well as businesses with large parking areas. Complaint and spill tracking is also used to determine where there are issues and this helps us determine what kind of education and outreach needs to be implemented and where that would be most effective. All of these tools are administered through our robust GIS Applications and maintained in our E-Codes database. We also apply for and administer 319 watershed grants so we can help citizens repair failing septic systems or connect to the sewer system, if available. We enforce our illicit discharge ordinance through our enforcement response plan, which allows us to write Notices of Violation and Civil Penalties up to \$5000 per day/per violation.	⊠ Yes	⊠ No
	F.	How many illicit discharge related complaints were received this reporting period? 138		
	G.	How many illicit discharge investigations were performed this reporting period? 122		
	H.	Of those investigations performed, how many resulted in valid illicit discharges that were a eliminated? 89	ddressed and/o	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? 269	sdiction this rep	porting

	F.	How many active priority and non-priority construction sites were inspected this reporting pe	eriod? <u>269</u>	
	G.	How many construction related complaints were received this reporting period? 43		
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	⊠ Yes	□ No
	В.	submitted an Implementation Plan to the Division? Do you have an ordinance or other regulatory mechanism requiring:	☐ Yes	□ No
	٥.	Site plan review and approval of new and re-development projects?	⊠ Yes	□ No
			△ 162	□ 140
		A process to ensure stormwater control measures (SCMs) are properly installed and maintained?	⊠ Yes	□ No
		Permanent water quality riparian buffers? If yes, specify requirements: 25 foot minimum and 50 foot average buffer width required to be shown on a recorded plat.	⊠ 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 that disturb over an acre or projects the feet or more of impervious area		-
	D.	How many development and redevelopment project plans were reviewed for this reporting	period? 86	
	E.	How many development and redevelopment project plans were approved? 75	_	
	F.	How many permanent stormwater related complaints were received this reporting period?	18	
	G.	How many enforcement actions were taken to address improper installation or maintenance		
	Н.	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.	<u>Sto</u>	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?		☐ 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
	_		2 100	
	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

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		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.	Rev	riewing and Updating Stormwater Management Programs (Section 4.4)		
	A.	Describe any revisions to your program implemented during this reporting period including	out not limited	to:
		Modifications or replacement of an ineffective activity/control measure. None for this report	ting period.	
		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 resuprogram. $\underline{N/A}$	ulting updates	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. See Attachment 5	⊠ 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	☐ No
	specified in TCA 68-221-1106? If no, explain.	

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>lllicit</u> Discharge	In Your ERP?
Verbal warnings	# <u>16</u>	# <u>37</u>	# <u>0</u>	⊠ Yes □ No
Written notices	# <u>17</u>	# <u>8</u>	# <u>41</u>	⊠ Yes □ No
Citations with administrative penalties	# <u>7</u>	# <u>0</u>	# <u>O</u>	⊠ Yes □ No
Stop work orders	# <u>6</u>	# <u>N/A</u>	# <u>O</u>	⊠ Yes □ No
Withholding of plan approvals or other authorizations	# <u>16</u>	# <u>13</u>	# <u>N/A</u>	⊠ Yes ☐ No
Additional Measures	# <u>N/A</u>	# <u>N/A</u>	# <u>N/A</u>	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?

 <u>Construction:</u>
 - 1.Temporary sediment contrals are not properly installed, functional and/or maintained. 2. Sediment controls are falling to retain sediment on site and sediment is entering waters of the state. 3. Necessary permits have not been obtained.

Illicit Discharges:

1. Failing or leaking sewer and septic systems and grey water discharges 2. Dumping of oils/solvents/chemicals in storm sewer system or stream (Residential), and 3. Dumping of yard waste in drainageway or storm sewer system

Permanent Construction:

- 1. Detention basins not being maintained, 2. Water Quality Units maintenance needed for sediment removal and
- 3. Water Quality Units maintenance needed for hydrocarbon booms replacement.

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. Knox County continues to monitor streams for pathogens using the indicator E.coli and the 5-in-30 standard method. Samples were collected at eleven samping sites that represent new sites as we work through our impaired stream list and repeat sites that we continue to monitor each year to track for change based on restoration activities in specific watersheds. The results of the analyses are attached.
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. Knox County is conducting surveys of all streams with Unavailable Parameters requiring non-analytical surveys. The work includes stream surveys that document impacted buffers, severe erosion and trash & debris using the Center for Watershed Protection Unified Stream Assessment method. To date, a total of 134 stream miles have been walked and surveyed using ESRI Collector. There are approximately 80 stream miles to complete by end of the permit cycle.
- C. If applicable, are monitoring records for activities performed during this reporting period submitted with this report.

 ✓ Yes

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."

Printed Name and Title

Signature

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

ΠNo

Knox County Waters from 2020 303(d) List and Exceptional Tennessee Waters in Knox County List (Unavailable Parameters for pathogens, nutrients, siltation and other parameters related to stormwater runoff from urbanized areas)

Waterbody Name	Waterbody ID	Cause of Impairment (Unavailable Parameter)	Pollutant Source
		TIER 1 STREAMS	
Grassy Creek	TN06010207011-0700	Loss of biological integrity due to siltation Escherichia coli	Discharges from MS4 area
High Bluff Branch	TN06010201066-0600	Escherichia coli	Discharges from MS4 area
Hines Branch	TN60610207011-0500	Habitat loss due to other anthropogenic substrate alterations Escherichia coli	Discharges from MS4 area
Knob Fork	TN06010207011-0600	Nitrate+Nitrite Loss of biological integrity due to siltation Habitat loss due to other anthropogenic substrate alterations Alteration in stream-side or littoral vegetative cover Escherichia coli	Discharges from MS4 area
Little Turkey Creek	TN06010201037-1000	Loss of biological integrity due to siltation	Discharges from MS4 area
Meadow Creek	TN06010207011-0800	Escherichia coli	Discharges from MS4 area
Plumb Creek	TN06010207011-0900	Escherichia coli	Discharges from MS4 area
Sinking Creek	TN060102011330_1000	Escherichia coli	Discharges from MS4 area
Ten Mile Creek	TN060102011334-0100	Habitat loss due to alteration in streamside or littoral vegetative cover Loss of biological integrity due to siltation Escherichia coli	Discharges from MS4 area
Turkey Creek	TN06010201340-1000	Loss of biological integrity due to siltation Escherichia coli	Discharges from MS4 area
Willow Fork	TN06010207011-0300	Alteration in stream-side or littoral vegetative cover Loss of biological integrity due to siltation Escherichia coli	Discharges from MS4 area

Continued on next page....

Knox County Waters from 2020 303(d) List and Exceptional Tennessee Waters in Knox County List (Unavailable Parameters for pathogens, nutrients, siltation and other parameters related to stormwater runoff from urbanized areas)

Matarkada		TIER 2 STREAMS	· · · · · · · · · · · · · · · · · · ·
Waterbody Name	Waterbody ID	Cause of Impairment (Unavailable Parameter)	Pollutant Source
Beaver Creek (segment 1000)	TN06010207011-1000	Phosphate Nitrates Escherichia coli Low Dissolved Oxygen Loss of biological integrity due to siltation Physical Substrate Habitat Alterations	Segment 1000 Major Municipal Point Source Pasture Grazing Discharges from MS4 Area
Beaver Creek (segments 2000 and 3000)	TN06010207011-2000	Escherichia coli Loss of biological integrity due to siltation Physical Substrate Habitat Alterations	Segments 2000 and 3000 Pasture Grazing Discharges from MS4 Area
Bullrun Creek	TN06010207014-1000	Escherichia coli Loss of biological integrity due to siltation Physical Substrate Habitat Alterations	Discharges from MS4 Area Pasture Grazing Channelization
Bullrun Creek	TN06010207014-2000	Escherichia coli	Discharges from MS4 Area Pasture Grazing
Casteel Branch	TN06010201066-0100	Loss of biological integrity due to siltation	Pasture Grazing Discharges from MS4 area
Fourth Creek (in vicinity of Westland Drive)	TN06010201697-1000	Physical Substrate Habitat Alterations Escherichia coli	Discharges from MS4 area (multiple MS4s) Channelization
Goose Creek	TN06010201723_1000	Loss of biological integrity due to siltation Other Anthropogenic Habitat Alterations Escherichia coli PCBs	Discharges from MS4 area (multiple MS4s) Collection System Failure RCRA Hazardous Waste
Grable Branch	TN06010207004-0100	Oil & Grease Loss of biological integrity due to siltation Physical Substrate Habitat Alterations	Minor Industrial Point Source Channelization Industrial Permitted Runoff Discharges from MS4 area
Grandview Branch	TN06010201066-0400	Escherichia coli	Grazing in Riparian or Shoreline Zones
Love Creek	TN06010104001-0100	Nitrate + Nitrite Loss of biological integrity due to siltation Other Anthropogenic Habitat Alterations Escherichia coli	Discharges from MS4 area (multiple MS4s)

Knox County Waters from 2020 303(d) List and Exceptional Tennessee Waters in Knox County List (Unavailable Parameters for pathogens, nutrients, siltation and other parameters related to stormwater runoff from urbanized areas)

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Swanpond Creek	TN06010104001-1400	Loss of biological integrity due to siltation Alteration in stream-side or littoral vegetative cover	Channelization Discharges from MS4 Area
		Escherichia coli	
Third Creek	TN06010201067_1000	Nitrate + Nitrite Escherichia coli Loss of biological integrity due to siltation Physical Substrate Habitat Alterations Escherichia coli	Discharges from MS4 area (multiple MS4s)
Whites Creek	TN06010201080-0100	Other Anthropogenic Habitat Alterations Escherichia coli	Discharges from MS4 area Streambank Modification
		TIER 3 STREAMS	
Waterbody Name	Waterbody ID	Cause of Impairment (Unavailable Parameter)	Pollutant Source
Flat Creek (segment 1000)	TN06010104019-1000	Phosphorous Escherichia coli	Pasture Grazing Municipal Point Source Collection System Failures
Gun Hollow Branch	TN06010201066-1200	Escherichia coli	Pasture Grazing
Little Flat Creek	TN06010104019-0100	Escherichia coli	Grazing in riparian or shoreline areas
Roddy Branch	TN06010201026-0100	Alteration in stream-side or littoral vegetative cover Physical Substrate Habitat Alteration, Loss of biological integrity due to siltation Escherichia coli	Pasture Grazing Channelization
Roseberry Creek	TN06010104001-0500	Escherichia coli	Pasture Grazing Septic Tanks
Stock Creek (Segments 1000 and 2000)	TN06010201066-1000 TN06010201066-2000	Escherichia coli	Pasture Grazing
Waterbody Name	Start and End points	Designation	Basis for Inclusion
	E ;	cceptional Tennessee Waters (ETW)	4
Brice Branch Unnamed Tributaries	Portion in House Mountain SNA	Exceptional Tennessee Water	House Mountain State Natural Area
Clinch River	From Melton Hill Dam to Pellissippi Parkway	Exceptional Tennessee Water	State Scenic River (Class III Developed River Area)

Knox County Waters from 2020 303(d) List and Exceptional Tennessee Waters in Knox County List

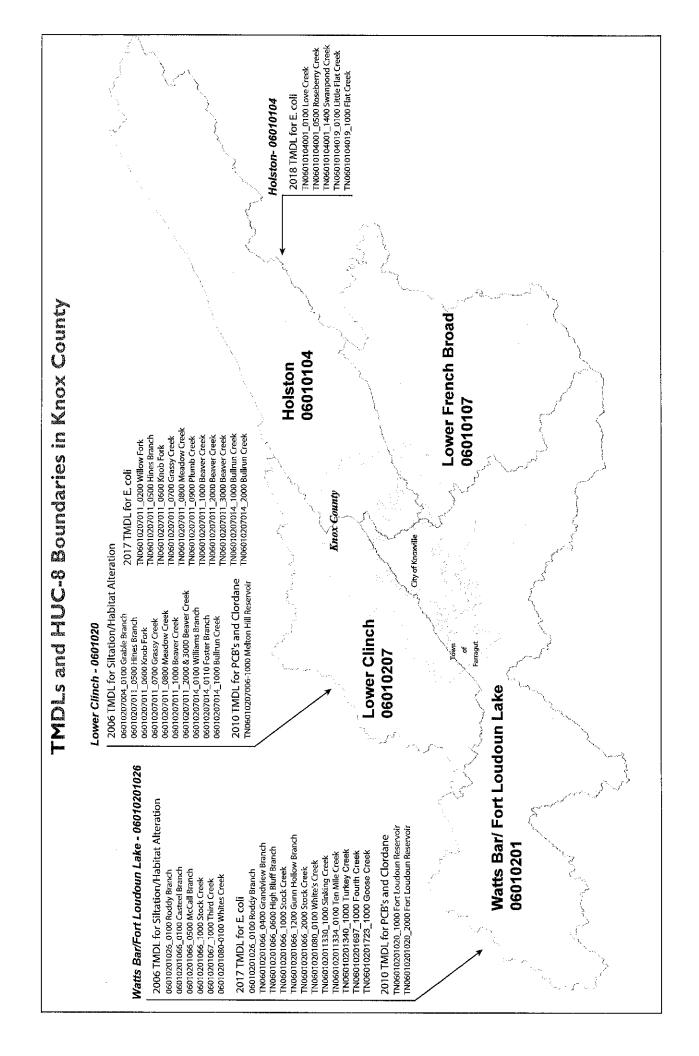
(Unavailable Parameters for pathogens, nutrients, siltation and other parameters related to stormwater runoff from urbanized areas)

Flat Creek Unnamed Tributary	Portion in House Mountain SNA	Exceptional Tennessee Water	House Mountain State Natural Area
French Broad River	From Holston River to Douglas Dam	Exceptional Tennessee Water	Endangered Species
Hogskin Branch	Portion in House Mountain SNA	Exceptional Tennessee Water	House Mountain State Natural Area
Holston River	From confluence with French Broad to McBee Island	Exceptional Tennessee Water	Endangered Species
Tuckahoe Creek	In its entirety	Exceptional Tennessee Water	State Scenic River (Class III Developed River Area)
Turkey Creek	From Fort Loudon Lake to Hwy 11	Exceptional Tennessee Water	Endangered Species

Tier 1 includes those streams where discharges from the County's public stormwater conveyance system (i.e., the MS4) are considered as the sole source of pollutant(s). Tier 1 streams are of primary focus in the County's water quality program, therefore permit compliance activities target the impairments in these waterbodies. The County's stormwater management program includes activities that target the pollutant(s) causing the impairment(s).

Tier 2 includes those streams where discharges from the County's MS4 are one of several sources of pollutant(s). Tier 2 streams are also a strong focus of the County's water quality program; therefore permit compliance activities target the impairments in these waterbodies. However, water quality improvements in these waterbodies likely cannot be achieved by the County's efforts alone.

Tier 3 includes those streams where discharges from Knox County's MS4 are NOT considered a source of pollutant(s). Water quality in these waterbodies are addressed by the County's stormwater management ordinance, general public education/outreach efforts and by other County stormwater program activities (e.g., illicit discharge enforcement), but the County's stormwater management resources are typically not highly focused on these streams.



Attachment 3
Cancelled and Postponed Outreach Events due to Covid19

Event	Lead	Date	Contingency
EKE Celebration	KC	April 25	Cancelled.
Hidden Rivers	PSCC	Various dates	Cancelled.
Families in the Creek	WQF	May 16	Cancelled.
Halls Outdoor Teaching	Knox County Schools	April 23	Cancelled due to schools being closed until April 24 th .
River Rescue	WQF	March 28	Event postponed.
Bonny Kate Fun Night	PTA	May 2	Cancelled.
STEAM Day-Corryton	Knox County Schools	May 12	Cancelled.
Ag in the Classroom	Farm Bureau	May 5	Cancelled.
Cheers to Clean Water	WQF	May 30	Postponing until Spring 2021
WaterFest	WQF	May 5	Cancelled.
Ivy Rain Barrel Sale	WQF	April 25	Changing pick update to June with COVID19 precautions in place.
Earth Day PSCC	PSCC	April 22	School is only on-line. Cancelled.

Guidance as of 3/15/2020

events, weddings, and other types of assemblies. These events can be planned not only by organizations and communities but also by individuals. introduce the virus to new communities. Examples of large events and mass gatherings include conferences, festivals, parades, concerts, sporting Large events and mass gatherings can contribute to the spread of COVID-19 in the United States via travelers who attend these events and

Therefore, CDC, in accordance with its guidance for large events and mass gatherings, recommends that for the next 8 weeks, organizers (whether groups or individuals) cancel or postpone in-person events that consist of 50 people or more throughout the United States.

Events of any size should only be continued if they can be carried out with adherence to guidelines for protecting vulnerable populations, hand hygiene, and social distancing. When feasible, organizers could modify events to be virtual. This recommendation does not apply to the day to day operation of organizations such as schools, institutes of higher learning, or businesses. This recommendation is made in an attempt to reduce introduction of the virus into new communities and to slow the spread of infection in communities already affected by the virus. This recommendation is not intended to supersede the advice of local public health officials. Attachment 4
Knox County: Outreach Public Participation 7/1/19 through 6/30/20

Note	Action Date	Event/Outreach/Education	# Students	# general nublic	Eng/ contractor	lbs of trash	Comments	
Knox County Stormwater Strong Streams Newsletter 483.00 Rock County Construction Services Newsletter 200.00 Powel Station Fload 2019 8.00 Stock County Construction Services Newsletter 130.00 Stock Creek Farmers Breadfast 30.00 Journ Doyle Middle School Classroom Teaching 12.00 Adopt-A Stream Clear-Up - Elavent Creek Kayak Club 478.00 Fall 2019 Strong Streams Newsletter 42.00 Adopt-A Stream Clear-Up - Elavent 42.00 Apple Feetival 42.00 If Ith Annet Faminer Branch Streams Newsletter 42.00 Apple Feetival 15.00 If Ith Annet Faminer Branch Clear-Up - Elavon 42.00 Adopt-A Stream Clear-Up - Elavon 130.00 Classroom Isssons 42.00 East Knox Elementary Outdoor Classroom Lesson 130.00 South Doyle Middle School Classroom Lesson 130.00 South Doyle Middle School Classroom Lesson 130.00				and mining "	6		7.	
Powel Station Fouliar Construction Services Newsletter	2019	Knox County Stormwater Strong Streams Newsletter		483.00			surong sureams newsierrer was created and delivered successfully to 483 unique email addresses.	
Powel State Foult activity 100.00	2019	Knox County Construction Services Newsletter			893.00		893 successful deliveries. Target audience is engineers, designers, consultants, contractors and developers.	
South Chooke Mixedie School Classroom Teaching	2019	Powell Station Flotilla 2019		200.00				
South Doyle Middle School Classroom Teaching 130,00 South Doyle Middle School Classroom Teaching 1200 400,000 Adopt-A-Stream Clean-Up - Beaver Creek Raysk Club 42,00 478,00 Classroom Bessons at Moorleand Elementary Company 42,00 215,00 280,00 Classroom Bessons at Moorleand Elementary Company 42,00 215,00 280,00 Classroom Bessons at Moorleand Elementary Company 42,00 12,00 280,00 Classroom Bessons at Moorleand Elementary Company 42,00 15,00 15,00 Classroom Bessons 42,00 15,00 15,00 15,00 15,00 Classroom Bessons 42,00 15,00 15,00 15,00 15,00 South Doyle Middle School Classroom Lesson 130,00 10,00 10,00 10,00 South Doyle Middle School Classroom Lesson 130,00 10,00 10,00 10,00 South Doyle Middle School Classroom Lesson 130,00 10,00 17,00 10,00 South Doyle Middle School Classroom Lesson 130,00 17,00 150,00 10,00 South Doyle Middle School Classroom Lesson 130,00 17,00 150,00 10,00	/2019	Stock Creek Farmers Breakfast		8.00				
John Seviel Days 30,000 40000 40000 Adopt-A-Stream Clean-Up - Beaver Crock Kayak Club 42,00 478,00 400,00 Fall 2019 Strong Streams Newsleter 42,00 60,00 478,00 Apple Festival 66,00 215,00 280,00 UT Sustainability Symposium 65,00 215,00 280,00 All Another Essens 42,00 12,00 280,00 Classroom Hessons 42,00 12,00 280,00 Class acroom Hessons 42,00 15,00 72,00 Adopt-A-Stream Clean-Up - Asset Planning Corp 130,00 15,00 72,00 South Doyle Middle School Classroom Lessons 130,00 17,00 180,00 South Doyle Middle School Classroom Lessons 130,00 17,00 180,00 Classroom Lesson Classroom Lessons 130,00 17,00 180,00 Classroom Lesson Variable Planning 101 Presentation 12,00 140,00 12,00 Classroom Lessons Classroom Lessons 130,00 274,00 12,00 Classroom Lessons	/2019	South Doyle Middle School Classroom Teaching	130.00					<u> </u>
Adopt-A-Stream Clear-Up - Easer Creek Kayak Club	/2019	John Sevier Days		30.00			We'll be celebrating the life and times of Tennessee's	_
Fall 2019 Strong Streams Newsletter	/2019	Adopt-A-Stream Clean-Up - Beaver Creek Kayak Club		12.00		400.00		
Classroom lessons at Mooreland Elementary 42.00 Classroom lessons Classroom Lesson Classroom Lessons Classroom L	/2019	Fall 2019 Strong Streams Newsletter		478.00				
UT Statished Control	/2019	Classroom lessons at Mooreland Elementary	42.00					
UT Sustainability Symposium 65.00 215.00 280.00 AdotpA-Stream Clear-Up - Elavon 42.00 215.00 280.00 AdotpA-Stream Clear-Up - Elavon 42.00 12.00 280.00 Classroom lessons 12.00 72.00 72.00 South Doyle Middle School Classroom Lesson 50.00 52.00 72.00 South Doyle Middle School Classroom Lessons 42.00 10.00 72.00 GIS Day Adotpt-A-Stream Clear-Up - Knoxville Ski & Outing Club 130.00 10.00 52.00 GIS Day Adotpt-A-Stream Clear-Up - Knoxville Ski & Outing Club 130.00 17.00 180.00 South Doyle Middle School Classroom Lessons 130.00 17.00 17.00 180.00 Classroom Lesson Classroom Lesson 130.00 17.00 180.00 180.00 Malex Kiney Elementary Family Fun Night 130.00 140.00 274.00 140.00 Classroom Lessons Classroom Lessons 120.00 274.00 120.00 Kinox County Stormwater Strong Streams Newsletter 20.00 477.00 885.00	/2019	Apple Festival		00.09				
11th Annual Farmers Banguet	72019	UT Sustainability Symposium	00'59					
AdoptA-Stream Clean-Up - Elavon AdoptA-Stream Clean-Up - Elavon 15.00 280.00 Classroom East Knox Elementary Country Storm Community Work Day 12.00 72.00 AdoptA-Stream Clean-Up - Asset Planning Corp 130.00 72.00 South Doyle Middle School Classroom Lessons 50.00 10.00 Gals Day 42.00 10.00 52.00 AdoptA-Stream Clean-Up - Knoxville Ski & Outing Club 130.00 17.00 180.00 Gals Day Adopta Middle School Classroom Lessons 42.00 17.00 180.00 Classroom Lesson Classroom Lesson 130.00 17.00 180.00 Annual EPW Clean Up Classroom Lesson 130.00 17.00 180.00 Materished Planning 101 Presentation 12.00 18.00 18.00 18.00 Fecal Coliform in County Surface Waters 130.00 274.00 18.00 18.00 Classroom Lessons Classroom Lessons 130.00 274.00 14.0 Classroom Lessons Construction Services Enewsletter Spring 2020 17.00 12.00 Knox County Putlic Works Spill Respons	72019	11th Annual Farmers' Banquet		215.00				
Classroom lessons	7/2019	Adopt-A-Stream Clean-Up - Elavon		15.00		280.00		
East Knox Elementary Outdoor Classroom Community Work Day 12.00 72.00	/2019	Classroom lessons	42.00					
Adopt-A-Stream Clean-Up - Asset Planning Corp 130.00 72.00 South Doyle Middle School Classroom Lesson 130.00 52.00 72.00 Landscaper Outreach for Leave & Yard Waste 50.00 10.00 180.00 180.00 GIS Day Adopt-A-Stream Clean-Up - Knoxville Ski & Outing Club 130.00 10.00 180.00 180.00 South Doyle Middle School Classroom Lessons 42.00 17.00 180.00<	9/2019		ıy	12.00				
South Doyle Middle School Classroom Lesson 130.00 52.00 GIS Day Adopt-A-Stream Clean-Up - Knoxville Ski & Outing Club 130.00 100.00 180.00 Adopt-A-Stream Clean-Up - Knoxville Ski & Outing Club 42.00 17.00 180.00 Classroom Lesson Lesson 130.00 17.00 180.00 Classroom Lesson Lesson 17.00 19.00 19.00 Annual EPW Clean Lp Classroom Lesson 12.00 19.00 19.00 Classroom Lesson Watershed Planning 101 Presentation 12.00 19.00 19.00 Fecal Coliform in County Surface Waters 130.00 274.00 885.00 10.00 Fecal Coliform in County Surface Waters 20.00 274.00 885.00 140 Classroom Lessons Classroom Lessons 20.00 274.00 885.00 140 Classroom Lessons Classroom Lessons Construction Services Enewsletter Spring 2020 20.00 477.00 885.00 Knox County Stormwater Strong Streams Newsletter Knox County Stormwater Strong Sale 477.00 140 <	/2019	Adopt-A-Stream Clean-Up - Asset Planning Corp		15.00		72.00		
Landscaper Outreach for Leave & Yard Waste 50.00 50.00 10.00 180.00 Adopt-A-Stream Clean-Up - Knoxville Ski & Outing Club 130.00 17.00 180.00 South Doyle Middle School Classroom Lesson 42.00 17.00 17.00 East Knox Elementary Fun Day 130.00 17.00 19.00 Annual EPW Clean Up 130.00 130.00 19.00 19.00 Fecal Coliform in County Surface Waters 130.00 19.00 19.00 Fecal Coliform and Carden Show 130.00 274.00 19.00 Classroom Lessons 10.00 19.00 19.00 19.00 Classroom Lessons 10.00 19.00 19.00 19.00 19.00 Classroom Lessons 10.00 19.00 19.00 19.00 19.00 Classroom Lessons 10.00 19.00 19.00 19.00 19.00 19.00 Construction Services Enewsletter Spring 2020 19.00 19.	/2019	South Doyle Middle School Classroom Lesson	130.00					
GIS Day	/2019	Landscaper Outreach for Leave & Yard Waste			52.00		Letter sent to local landscape and lawn care companies to alert them about placement of leaves in ROW.	
Adopt-A-Stream Clean-Up - Knoxville Ski & Outing Club 130,00 180,00 South Doyle Middle School Classroom Lessons 42,00 17,00 East Knox Elementary Fun Day 130,00 17,00 Annual EPW Clean Up 130,00 130,00 Classroom Lesson 12,00 19,00 Watershed Planning 101 Presentation 12,00 19,00 Fecal Coliform in County Surface Waters 130,00 19,00 East Knox Elementary Family Fun Night 130,00 100,00 Classroom Lessons 130,00 274,00 Classroom Lessons 20,00 274,00 Knox County Stormwater Strong Streams Newsletter 20,00 477,00 Knox County Public Works Spill Response Training 885,00 140 Rain Barrel Truckload Sale 5,00 140 Adopt-A-Stream Clean-Up - Knoxville Gay Men's Chorus 5,00 140 AAS Clean-Up - The Arc Knox County 883,00 10,00 AAS Clean-Up - The Arc Knox County 883,00 10,00	/2019	GIS Day	50.00					
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Classroom Lesson	72019	South Doyle Middle School Classroom Lessons	130.00					Т
Past Knox Elementary Fun Day	/2019	Classroom Lesson	42.00					Т
Annual EPW Clean Up 130.00 130.00 Classroom Lesson 130.00 19.00 Fecal Coliform in County Surface Waters 120.00 19.00 East Knox Elementary Family Fun Night 130.00 100.00 Classroom Lessons 130.00 274.00 Classroom Lessons 20.00 274.00 Classroom Lessons 20.00 274.00 Knox County Stormwater Strong Streams Newsletter 477.00 885.00 Knox County Public Works Spill Response Training 83.00 12.00 Rain Barrel Truckload Sale 83.00 140 Adopt-A-Stream Clean-Up - Knoxville Gay Men's Chorus 5.00 140 AAS Clean-Up - The Arc Knox County 8.00 10.00	/2019	East Knox Elementary Fun Day		17.00				
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Watershed Planning 101 Presentation 12.00 19.00 19.00 Fecal Coliform in County Surface Waters 130.00 100.00 100.00 100.00 Classroom Lessons 20.00 274.00 100.00 100.00 100.00 Classroom Lessons 20.00 274.00 100.00 100.00 100.00 Knox County Stormwater Strong Streams Newsletter 20.00 477.00 885.00 100.00 Knox County Public Works Spill Response Training Rain Barrel Truckload Sale 12.00 12.00 Rain Barrel Truckload Sale 83.00 12.00 140 Adopt-A-Stream Clean-Up - Knoxville Gay Men's Chorus 5.00 140 AAS Clean-Up - The Arc Knox County 83.00 10.00	/2019	Classroom Lesson	130.00					
Fecal Coliform in County Surface Waters 19.00 East Knox Elementary Family Fun Night 100.00 Classroom Lessons 20.00 Classroom Lessons 20.00 Classroom Lessons 20.00 Knox County Stormwater Strong Streams Newsletter 20.00 Knox County Stormwater Strong Streams Newsletter 477.00 Knox County Public Works Spill Response Training 885.00 Rain Barrel Truckload Sale 12.00 Adopt-A-Stream Clean-Up - Knoxville Gay Men's Chorus 5.00 AAS Clean-Up - The Arc Knox County 8.00 AAS Clean-Up - The Arc Knox County 10.00	/2020	Watershed Planning 101 Presentation	12.00					
East Knox Elementary Family Fun Night 100.00 Classroom Lessons 130.00 Dogwood Home and Garden Show 20.00 Classroom Lessons 20.00 Knox County Stormwater Strong Streams Newsletter 477.00 Knox County Public Works Spill Response Training 885.00 Knox County Public Works Spill Response Training 12.00 Rain Barrel Truckload Sale 83.00 Adopt-A-Stream Clean-Up - Knoxville Gay Men's Chorus 5.00 Ads Clean-Up - The Arc Knox County 8.00 AAS Clean-Up - The Arc Knox County 10.00	/2020	Fecal Coliform in County Surface Waters		19.00			Community Presentation	
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Dogwood Home and Garden Show 274.00 Classroom Lessons Classroom Lessons 20.00 477.00 885.00 Classroom Lessons Construction Services Enewsletter Spring 2020 885.00 Rain Barrel Truckload Sale 83.00 Adopt-A-Stream Clean-Up - Knox County Meris Chorus 83.00 140 Adopt-A-Stream Clean-Up - The Arc Knox County 10.00 Adopt-A-Stream Clean-Up - The Arc Knox County 10.00	/2020	Classroom Lessons	130.00					
Classroom Lessons 20.00 477.00 885.00 Knox County Stormwater Strong Streams Newsletter 20.00 477.00 885.00 Construction Services Enewsletter Spring 2020 Reable Strong Streams Class Spill Response Training 12.00 12.00 Rain Barrel Truckload Sale 83.00 140 140 Adopt-A-Stream Clean-Up - The Arc Knox County 8.00 140 AAS Clean-Up - The Arc Knox County 10.00 10.00	/2020	Dogwood Home and Garden Show		274.00				
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Construction Services Enewsletter Spring 2020 885.00 Knox County Public Works Spill Response Training 12.00 Rain Barrel Truckload Sale 83.00 Adopt-A-Stream Clean-Up - Knoxville Gay Men's Chorus 5.00 140 AAS Clean-Up - The Arc Knox County 8.00 10.00	/2020	Knox County Stormwater Strong Streams Newsletter	3	477.00			Winter Edition 2020	П
Knox County Public Works Spill Response Training 12.00 Rain Barrel Truckload Sale 83.00 Adopt-A-Stream Clean-Up - Knoxville Gay Men's Chorus 5.00 AAS Clean-Up - The Arc Knox County 8.00	/2020	Construction Services Enewsletter Spring 2020			885.00		Construction exit and road construction inspections	Т
Rain Barrel Truckload Sale 83.00 Adopt-A-Stream Clean-Up - Knoxville Gay Men's Chorus 5.00 AAS Clean-Up - The Arc Knox County 8.00 AAS Clean-Up - The Arc Knox County 1842 1842	/2020	Knox County Public Works Spill Response Training			12.00			Т
AAS Clean-Up - The Arc Knox County AAS Clean-Up - The Arc Knox County totals 923 2521 1842	/2020	Rain Barrel Truckload Sale		83.00				
AAS Clean-Up - The Arc Knox County 8.00 8.00 1842		Adopt-A-Stream Clean-Up - Knoxville Gay Men's Chorus		5.00		140		\neg
923 2524 1842	/2020	AAS Clean-Up - The Arc Knox County		8.00		10.00		
740		totals	923	2521	1842	1082		-

NPDES Small MS4 Permit for Knox County

Annual Assessment: Milestone Year 4 (July 1, 2019-June 30, 2020)

This is the annual assessment of the Stormwater Management Plan, NOI and policy/procedures for Milestone Year 4 by the Stormwater Compliance Manager and Stormwater staff. This exercise is required by permit section 4.4.1. Comments are listed below the applicable BMP. If a BMP is not listed, then staff considered the activity on track or completed. The permit also requires a plan and schedule to address the modifications and improvements identified by the assessment. Targets for completion of each modification or improvement is noted.

Public Education and Public Participation

1B Knox County (KC) will create a PIE plan that details specific goals and specific public information events/activities that will occur over the permit cycle as per permit requirements.

 Due to Covid-19, some of the activities and events listed in the PIE Plan had to be postponed or cancelled. The table below describes the actions we took in response to the international pandemic. See Attachment 3 of the Annual Report.

1D KC will continue to support, participate in and maintain documentation for programs such as River Rescue, WaterFest, EarthFest, and other partnership programs, everts, workshops and trainings as long as those programs and events remain in existence.

See above.

1F KC SW Management staff will continue to require that staff attend at least 12 hours of continuing education annually. Continuing Education Units (CEUs) will be tracked using our database system.

 Budget cuts and COVID-19 impacted the second half of this reporting fiscal year and we anticipate both continuing to affect this permit year.

Illicit Discharge Detection and Elimination

2A Knox County will continue to develop, update, and maintain a storm sewer system map that shows the location of all outfalls, inputs into the storm sewer collection system, general direction of stormwater flow, and the names and locations of all waters of the state that receive discharges from those outfalls.

• Work out a standard procedure to add new infrastructure from the Highway Dept and new subdivisions into the storm sewer map.

2D KC will inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.

CWA Section 319 Grants funds were used for repairing septic systems and sewer connections.

Construction Site Runoff

3A Knox County will continue Pre-Con conferences, evaluate and make needed changes to the process.

- The checklist for Pre-Con has been updated periodically as topics for discussion has been identified by plan reviewers and inspectors.
- May be beneficial to create educational materials for the Pre-Con such as a video to engage the contractors and developers.
- May set specific days of the week for Pre-Cons instead of meetings set across the week and day.

3B Knox County will continue regular site inspections as per NPDES permit requirements (min of one time per month for all permitted priority construction sites as defined by the county). Knox County will evaluate and update the process on a regular basis. In the event of complaints or weather related issues, Knox County will respond more often than required.

 Consider a policy change for the small percentage of sites that have an impact on resources (staff and time) that are near completion and almost ready for NOT. Look to procedure used by Nashville. Deadline for evaluation is December 31, 2019.

3E Knox County will continue to implement the guidance document that is our ERP. Expect to review and amend as necessary.

 The Lot Level ERP was revised in December 2018. Staff assigned to Lot Level inspections in construction services resigned and the activity was shifted back to Codes Administration. May need to take a look at the Lot Level ERP in the next Milestone Year.

3F Applicable KC SW Management Staff and Highway Maintenance Staff will maintain certification under the TN Fundamentals of Erosion Prevention and Sediment Control Level 1 (or equivalent). Construction site plan reviewers will receive a certification of completion from the TN Erosion Prevention and Sediment Control Design Course Level 2. MS4 Staff will also fulfill any future state requirements for training during the permit cycle.

 The re-organization that occurred late in the fiscal year in Highways will necessitate a reassignment of who tracks the certifications for Highway staff. This will be accomplished during the next Milestone Year.

3G KC will maintain an inventory of all active public and private construction sites that result in a total land disturbance of equal to or greater than one acre or are part of a larger common plan of development via a database.

• It would be helpful to establish a list of definitions. SOPs will be revised to provide consistent terms by December 2020.

3H KC will continue to implement site plan review procedure as per NPDES permit requirements. The County will continue to evaluate and update these procedures as appropriate.

- Staff would like to see digital plan submittals. This discussion will start Sept 2020.
- Senior Plan Reviewer, Leo LaCamera, is retiring in July 2019. He is taking valuable institutional knowledge with him. We should document the processes and interview him before he exits.

Permanent Stormwater Management Program

4B KC will submit an implementation plan within 90 days of January 1, 2018 (or later date if notified by TDEC).

Action pending new implementation plan deadline by TDEC (waiting on new Stormwater Rule).

4C KC will continue to operate and enforce in accordance with the current stormwater program, ordinance adopted January 2008, which addresses permanent stormwater management from new development and re-development projects that disturb one or more acres, or add more than 10,000 sf of imperviousness. In 2016, KC accepted the extension to permanent stormwater provisions of the 2010 NPDES small MS4 permit and therefore did not modify the program or ordinance under the 2010 permit. The program will be modified, through ordinance revisions, as necessary to meet the Program Requirements, Permanent Stormwater Standards, Site- Specific Limitations and Water Quality Treatment Volume permit conditions per the implementation plan in 4B.

Action pending new implementation plan deadline by TDEC (waiting on new Stormwater Rule).

4F KC will research, develop and implement an SCM owner/operator inspection program that meets the permit requirements.

 This BMP has not been implemented. This action is also pending implementation due to the litigation and proposed Stormwater Rule.

4H KC will continue to inventory and track all SCMs according to permit requirements. AmeriCorps Teams will assist with the tracking systems of SCM management.

Planning to track KC green stormwater treatment infrastructure. Started in May 2020.

Municipal Pollution Prevention and Good Housekeeping

5A KC Stormwater Management will continue to aid in the development and execution of training programs by working with departments under the Knox County Mayor where there is potential for stormwater pollution.

KC again had staff changes (lead staff for this MCS was let go suddenly). MCM needs attention.
 Monthly municipal inspections are on track as is training but overall program should be reassigned as soon as staff is replaced.

HUC12 Name	2016 303 d list	Station ID	Fall 2016 Geometric Mean of 5 samples in 30 days	Recreation Criteria for Coliform
Bull Run Creek Lower	impaired	BULLR007.2AN	79	meets standard
Clinch River-Conner Creek	unassessed	CONNEO00.1KN	493	impaired
Clinch River-Conner Creek	unassessed	CONNEO01.7KN	1608	impaired
Beaver Creek Upper	Supporting	COX000.2KN	70	meets standard
Flat Creek	impaired	FLAT000.4KN	210	Impaired
Holston River-Clift Creek	impaired	HOGSK000,1KN	332	Impaired
Flat Creek	impaired	LFLAT000.3KN	327	impaired
Fiat Creek	impaired	LFLAT005.9KN	1673	impaired
Holston River-Clift Creek	impaired	ROSEB000.6KN	672	impaired
Hoiston River-Clift Creek	Impaired	ROSEB002.4KN	1093	impaired
Holston River-Clift Creek	impaired	ROSEB006,2KN	924	impaired
Stock Creek	impaired	STOCK002.0KN	158	impaired
First Creek	impaired	WHITE000,1KN	356	impaired
First Creek	impaired	WHITE003.2T000.3KN	693	impaired
First Creek	impaired	WHITE003.5KN	408	impaired
) HOCKICK	Impunca	TVIII EGGS:5K(V	700	mpanda
HUC12 Name	2017 303 d list	Station ID	Fall 2017 Geometric Mean of 5 samples in 30 days	Recreation Criteria for Coliform
Flat Creek	impaired	FLAT000.4KN	135	Impaired
Stock Creek	Impaired	HBLUF000.1KN	310	impaired
Stock Creek	impaired	STOCK002.0KN	198	Impaired
Ten Mile Creek	impaired	TM1LE000.3KN	256	impaired
Ten Mile Creek	impaired	SINKI000.2KN	233	impaired
Clinch River-Conner Creek	unassessed	CONNECCO,1KN	1,96	Impaired
Beaver Creek Upper	impaired	WILLO000.5KN	404	impaired
Beaver Creek Upper	impaired	HINES000.2KN	506	impaired
Beaver Creek Upper	impaired	KNOB000.3KN	237	impaired
Beaver Creek Lower	Impaired	MEADO000.2KN	233	impaired
Beaver Creek Lower	impaired	PLUMB000.3KN	251	impaired
Beaver Creek Lower	Impaired	GRASS000.3KN	335	impaired
BOUVET CITCON EDVICE	ппринси	GIV-55000.5KI	333	111111111111111111111111111111111111111
HUC12 Name	2018 303 d list	Station ID	Fall 2018 Geometric Mean of 5 samples in 30 days	Recreation Criteria for Collform
Flat Creek	Impaired	FLAT000.4KN	250	Impaired
Flat Creek	impaired	FLAT005.6KN	381	Impaired
Flat Creek	Impaired	LFLAT000.3KN	297	impaired
Flat Creek	impaired	LFLAT005.9KN	747	impaired
Bull Run Creek Lower	Impaired	BULLR016.2KN	258	impaired
Beaver Creek Lower	impaired	BEAVE024.7KN	337	Impaired
Beaver Creek Upper	impaired	BEAVE037.0KN	1020	impaired
Fort Louden Lake Upper	impaired	GOOSE000.8KN	1146	Impaired
Hoiston River Outlet	impaired	SWANP000.8KN	172	impaired
Stock Creek	Impaired	GRAND000.5	195	impaired
Ten Mile Creek	impaired	SINK1002.1KN	85	meets standard
Clinch River-Conner Creek	Unassessed	CONNEO00.1KN	212	impaired
Beaver Creek Lower	impaired	BEAVE003.5KN	142	impaired
Beaver Creek LOWEI	ппрацеи	DEAVEOUS.SKIN	142	Impatred
HUC12 Name	2019 303 d list	Station ID	Fall 2019 Geometric Mean of 5 samples in 30 days.	Recreation Criteria for Coliform
Beaver Creek Upper	impaired	BEAVE037.0KN	322	Impaired
Flat Creek	Impaired	FLATO00.4KN	212	impaired
Flat Creek	impaired	FLAT005,6KN	374	Impaired
Stock Creek	Impaired	GUNN GO.5KN	678	impaired
Little River-Roddy Branch	impaired	HOGSK000.1KN	313	impaired
Flat Creek	impaired	LFLAT000.3KN	388	impaired
Flat Creek	impaired	LFLAT005.9KN	710	impaired
Little River-Roddy Branch	impaired	RODDY000.6BT	516	impaired
			349	impaired
Little River-Roddy Branch	impaired	ROSEBOOO.6KN	336	
Holston River-Clift Creek	impaired	ROSEBOO2.4KN		impaired
Holston River-Clift Creek	impaired	ROSEB006.2KN	803	impaired