







City of Johnson City, TN

Municipal and Safety Building 601 East Main Street P.O. Box 2150 Johnson City, TN 37605-2150 Phone: 423-434-5784

TDEC Small MS4 Annual Report Year Six (6)





EAST TENNESSEE STATE UNIVERSITY

from July 1st, 2021 through June 30th, 2022 Report Due September 30th, 2022

Permit Tracking No. TNS075370





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.

Name of MS4: City of Johnson City	MS4 Permit Number: TNS075370				
Contact Person: Jeremy Jones		Email Address: jjones@johnsoncitytn.org			
Telephone: (423) 434.5758		MS4 Program We https://www.johnsormwater/index.php	oncitytn.org/reside	ents/public_v	vorks/sto
Mailing Address: P.O. Box 2150					
City: Johnson City	State: TN		ZIP code: 3760	5-2150	
What is the current population of your	MS4? 71278				
What is the reporting period for this an		July1 <u>2021</u> to June 3	30 <u>2022</u>		
Discharges to Waterbodies with Unava		or Exceptional Tenn	essee Waters (Se	ection 3.1)	
A. Does your MS4 discharge into wa to as impaired) for pathogens, nut stormwater runoff from urbanized and/or according to the on-line statach a list.	aters with unavailabl trients, siltation or of areas as listed on 1	e parameters (previent ther parameters rela FN's most current 30	ously referred Ited to 33(d) 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.				□No	
C. Does your MS4 discharge to any http://environment-online.tn.gov:8080 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: Water Quality Regulations and EPSC Regulations				⊠ Yes	□ No
Public Education/Outreach and Involve	ement/Participation	(Sections 4.2.1 and	4.2.2)		
A. Have you developed a Public Info	ormation and Educat	tion plan (PIE)?		⊠ Yes	□ No
B. Is your public education program Spots? If yes, describe the specific education program: Restaurant G	fic pollutants and/or	sources targeted by	your public	⊠ Yes	□ No
C. Do you have a webpage dedicate link/URL: http://healthsafety.etsu.edu/static/	ytn.org/residents/pu			⊠ Yes	□ No
D. Summarize how you advertise an opportunities: ETSU Eco Nuts an	•				

local clean up events, etc.

- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: Participated in cleanups with Boone Watershed Partnership, ETSU Sustainability and Eco Nuts; Educational booth at JC Seed Swap Event; Ashley Academy presentation by Professor Ingrid Luffman with ETSU
- 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: Cleanup on April 19th- 20 participants, 300 pounds of trash; 2 ETSU campus cleanups, 4/9 with 8 volunteers and 2/26 with 12 volunteers.

4.	Illici	t 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
	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? 601		
	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: Screening of at least 1/5 of system outfalls each year during dry weather.	⊠ Yes	□ No
	F.	How many illicit discharge related complaints were received this reporting period? $\underline{6}$		
	G.	How many illicit discharge investigations were performed this reporting period? 6		
	H.	Of those investigations performed, how many resulted in valid illicit discharges that were a eliminated? $\underline{5}$	ddressed and	or .
5.	Co	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

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

	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 juri period? $\underline{24}$	sdiction this re	eporting
	F.	How many active priority and non-priority construction sites were inspected this reporting p	eriod? <u>46</u>	
	G.	How many construction related complaints were received this reporting period? 3		
6.	<u>Pe</u>	rmanent Stormwater Management at New Development and Redevelopment Projects (Sec	tion 4.2.5)	
	Α.	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: 25	⊠ Yes	□ No
	C.	What is the threshold for development and redevelopment project plans plan review (e.g., disturbing greater than one acre, etc.)? Projects disturbing greater than one acre	all projects, pr	rojects
	D.	How many development and redevelopment project plans were reviewed for this reporting	period? <u>23</u>	
	E.	How many development and redevelopment project plans were approved? 19		
	F.	How many permanent stormwater related complaints were received this reporting period?	<u>3</u>	
	G.	How many enforcement actions were taken to address improper installation or maintenance	ce? <u>5</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)		
	Α.	As applicable, have stormwater related operation and maintenance plans that include informaintenance activities, schedules and the proper disposal of waste from structural and no controls been developed and implemented at the following municipal operations:		
		Streets, roads, highways?		□ No
		Municipal parking lots?		□ No
		Maintenance and storage yards?	⊠ Yes	□ No
		Fleet or maintenance shops with outdoor storage areas?	⊠ Yes	☐ No
		Salt and storage locations?		□ No
		Snow disposal areas?	☐ Yes	⊠ No
		Waste disposal, storage, and transfer stations?	⊠ Yes	□ No

Page 3 of 5
CN-1291 (Rev.9-16) RDA 1663

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?			ns at ⊠ Yes	□No				
	If yes, are new applic employees trained a			s, and existing appli	cable ⊠ Yes	□ No			
Rev	Reviewing and Updating Stormwater Management Programs (Section 4.4)								
A.	Describe any revision	is to your program in	nplemented during thi	s reporting period i	ncluding but not lim	ited to:			
	Modifications or repla	acement of an ineffe	ctive activity/control n	neasure. <u>N/A</u>					
	Changes to the prog	ram as required by tl	ne division to satisfy p	permit requirements	s. <u>N/A</u>				
	Information (e.g. add program. N/A	litional acreage, outfa	alls, BMPs) on newly	annexed areas and	l any resulting upda	tes 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 □ Yes □ No next reporting period. Tweaking newly developed software program to follow-up on water quality device inspections								
. Enfo	orcement Response P	Plan (Section 4.5)							
A .	Have you implement enforcement actions	ted an enforcement	response plan that in npliance, and allows t plain.	, -	lties ⊠ Yes	□ No			
B.	this reporting period;	indicate the number	ring types of enforcent of actions, the minimed of note those for whice	num measure (e.g.,	construction, illicit of				
	<u>Action</u>	Construction	Permanent Stormwater	<u>Illicit</u> <u>Discharge</u>	<u>In Your El</u>	RP?			
Verb	al warnings	# <u>3</u>	# <u>7</u>	# <u>6</u>	⊠ Yes	□No			
Writt	en notices	# <u>13</u>	# <u>4</u>	# <u>3</u>	⊠ Yes	□No			
	ions with inistrative penalties	# <u>0</u>	# <u>0</u>	# <u>0</u>	⊠ Yes	□No			
Stop	work orders	# <u>0</u>	# <u>0</u>	# <u>0</u>	⊠ Yes	□No			
appr	holding of plan ovals or other orizations	# <u>0</u>	# <u>0</u>	# <u>0</u>	⊠ Yes	□ No			
Addi	tional Measures	# <u>N/A</u>	# <u>N/A</u>	# <u>N/A</u>	Describe:				
C.	Do you track instance	ces of non-compliand	e and related enforce	ement documentation	on? ⊠ Yes	☐ No			
D.	What were the most common types of non-compliance instances documented during this reporting period? Constuction silt fence issues; basin maintenance not on routine schedule								

8.

9

10. Monitoring, Recordkeeping and reporting (Section 5)

- Summarize any analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. GIS staff tweaking WQD program for inspections and scheduling
- Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed B. during this reporting period. Stormwater staff liaising with newly hired construction inspector to initiate WQD inspections directly after site final so that contruction into maintenance is a seamless process
- If applicable, are monitoring records for activities performed during this reporting period C. submitted with this report.

Yes

□ No

11. Certification

This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

PHILE PINDZILA PUBLIC WORLS DRICTURE Printed Name and Title

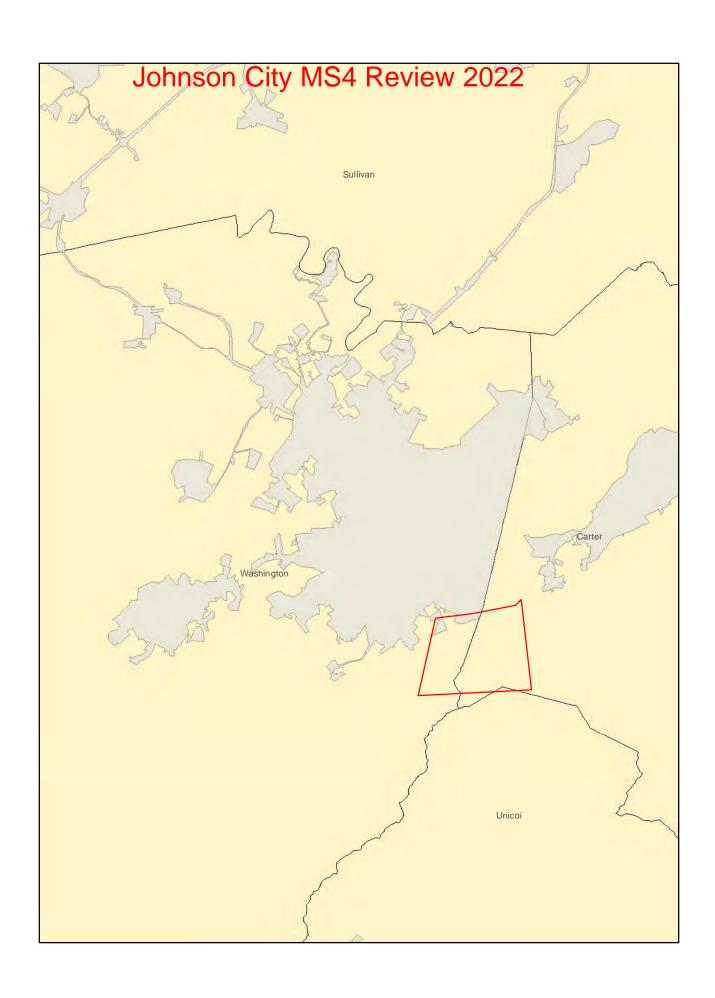
MARK JEE DIRECTOR - EH'35

Printed Name and Title

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

ID305B	WATER_NAME	LOCATION	WATER_TYPE	WATER_SIZE	CAUSE_NAME	TMDL_PRIORITY	SOURCE_NAME
TN06010102006_1000	Boone Reservoir	WASHINGTON CO	FRESHWATER RESERVOIR	1968	Chlordane	NA	Contaminated Sediments
TN06010102006_1000	Boone Reservoir	SULLIVAN CO	FRESHWATER RESERVOIR	1968	Chlordane	NA	Contaminated Sediments
TN06010102006_1000	Boone Reservoir	WASHINGTON CO	FRESHWATER RESERVOIR	1968	Polychlorinated biphenyls	NA	Contaminated Sediments
TN06010102006 1000	Boone Reservoir	SULLIVAN CO	FRESHWATER RESERVOIR	1968	Polychlorinated biphenyls	NA	Contaminated Sediments
TN06010102047_0100	Ford Creek	WASHINGTON CO	RIVER	5.5	Sedimentation/Siltation	L	Grazing in Riparian or Shoreline Zones
TN06010102047 0100	Ford Creek	WASHINGTON CO	RIVER	5.5	Sedimentation/Siltation	L	Municipal (Urbanized High Density Area)
TN06010102047 0100	Ford Creek	WASHINGTON CO	RIVER	5.5	Escherichia coli	NA	Municipal (Urbanized High Density Area)
TN06010102047 0100	Ford Creek	WASHINGTON CO	RIVER	5.5	Escherichia coli	NA	Grazing in Riparian or Shoreline Zones
TN06010102702 1000	Cedar Creek	WASHINGTON CO	RIVER	10.1	Nitrate/Nitrite (Nitrite + Nitrate as N)	L	Municipal (Urbanized High Density Area)
TN06010102702 1000	Cedar Creek	WASHINGTON CO	RIVER	10.1	Nitrate/Nitrite (Nitrite + Nitrate as N)	L	Grazing in Riparian or Shoreline Zones
TN06010102702 1000	Cedar Creek	WASHINGTON CO	RIVER	10.1	Alteration in stream-side or littoral vegetative covers	Ĺ	Municipal (Urbanized High Density Area)
TN06010102702 1000	Cedar Creek	WASHINGTON CO	RIVER	10.1	Alteration in stream-side or littoral vegetative covers	L	Grazing in Riparian or Shoreline Zones
TN06010102702 1000	Cedar Creek	WASHINGTON CO	RIVER	10.1	Sedimentation/Siltation	Ī	Municipal (Urbanized High Density Area)
TN06010102702 1000	Cedar Creek	WASHINGTON CO	RIVER	10.1	Sedimentation/Siltation	L	Grazing in Riparian or Shoreline Zones
TN06010102702_1000	Cedar Creek	WASHINGTON CO	RIVER	10.1	Escherichia coli	NA	Grazing in Riparian or Shoreline Zones
TN06010102702_1000	Cedar Creek	WASHINGTON CO	RIVER	10.1	Escherichia coli	NA	Municipal (Urbanized High Density Area)
TN06010102702_1000 TN06010103006_1000	Boones Creek	WASHINGTON CO	RIVER	19.31	Nitrate/Nitrite (Nitrite + Nitrate as N)	L	Grazing in Riparian or Shoreline Zones
TN06010103000_1000	Boones Creek	WASHINGTON CO	RIVER	19.31		NA	
TN06010103006_1000	Boones Creek	WASHINGTON CO	RIVER	19.31	Alteration in stream-side or littoral vegetative covers Sedimentation/Siltation	NA NA	Grazing in Riparian or Shoreline Zones
TN06010103006_1000			RIVER	19.31	•	NA NA	Municipal (Urbanized High Density Area)
_	Boones Creek	WASHINGTON CO			Sedimentation/Siltation		Grazing in Riparian or Shoreline Zones
TN06010103006_1000	Boones Creek	WASHINGTON CO	RIVER	19.31	Sedimentation/Siltation	NA	Site Clearance (Land Development or Redevelopment)
TN06010103006_1000	Boones Creek	WASHINGTON CO	RIVER	19.31	Escherichia coli	NA	Grazing in Riparian or Shoreline Zones
TN06010103006_0100	Carroll Creek	WASHINGTON CO	RIVER	4.3	Sedimentation/Siltation	NA	Municipal (Urbanized High Density Area)
TN06010103006_0100	Carroll Creek	WASHINGTON CO	RIVER	4.3	Sedimentation/Siltation	NA	Grazing in Riparian or Shoreline Zones
TN06010103006_0100	Carroll Creek	WASHINGTON CO	RIVER	4.3	Nitrate/Nitrite (Nitrite + Nitrate as N)	L	Grazing in Riparian or Shoreline Zones
TN06010103006_0100	Carroll Creek	WASHINGTON CO	RIVER	4.3	Nitrate/Nitrite (Nitrite + Nitrate as N)	L	Municipal (Urbanized High Density Area)
TN06010103006_0100	Carroll Creek	WASHINGTON CO	RIVER	4.3	Alteration in stream-side or littoral vegetative covers	NA	Municipal (Urbanized High Density Area)
TN06010103006_0100	Carroll Creek	WASHINGTON CO	RIVER	4.3	Alteration in stream-side or littoral vegetative covers	NA	Grazing in Riparian or Shoreline Zones
TN06010103006_0100	Carroll Creek	WASHINGTON CO	RIVER	4.3	Escherichia coli	NA	Grazing in Riparian or Shoreline Zones
TN06010103009_1000	Brush Creek	WASHINGTON CO	RIVER	20.3	Nitrate/Nitrite (Nitrite + Nitrate as N)	L	Municipal (Urbanized High Density Area)
TN06010103009_1000	Brush Creek	WASHINGTON CO	RIVER	20.3	Other anthropogenic substrate alterations	NA	Municipal (Urbanized High Density Area)
TN06010103009_1000	Brush Creek	WASHINGTON CO	RIVER	20.3	Sedimentation/Siltation	NA	Municipal (Urbanized High Density Area)
TN06010103009_1000	Brush Creek	WASHINGTON CO	RIVER	20.3	Escherichia coli	NA	Municipal (Urbanized High Density Area)
TN06010103046_0100	Catbird Creek	CARTER CO	RIVER	5.7	Sedimentation/Siltation	L	Municipal (Urbanized High Density Area)
TN06010103046_0100	Catbird Creek	WASHINGTON CO	RIVER	5.7	Sedimentation/Siltation	L	Municipal (Urbanized High Density Area)
TN06010103046_1000	Sinking Creek	CARTER CO	RIVER	10	Escherichia coli	NA	Municipal (Urbanized High Density Area)
TN06010103046_1000	Sinking Creek	CARTER CO	RIVER	10	Escherichia coli	NA	Grazing in Riparian or Shoreline Zones
TN06010103046_1000	Sinking Creek	WASHINGTON CO	RIVER	10	Escherichia coli	NA	Municipal (Urbanized High Density Area)
TN06010103046_1000	Sinking Creek	WASHINGTON CO	RIVER	10	Escherichia coli	NA	Grazing in Riparian or Shoreline Zones
TN06010103061_1000	Reedy Creek	WASHINGTON CO	RIVER	10.7	Escherichia coli	NA	Municipal (Urbanized High Density Area)
TN06010103061_1000	Reedy Creek	WASHINGTON CO	RIVER	10.7	Escherichia coli	NA	Grazing in Riparian or Shoreline Zones
TN06010103635_0100	Cash Hollow Creek	WASHINGTON CO	RIVER	3.48	Alteration in stream-side or littoral vegetative covers	NA	Municipal (Urbanized High Density Area)
TN06010103635_0100	Cash Hollow Creek	WASHINGTON CO	RIVER	3.48	Escherichia coli	NA	Municipal (Urbanized High Density Area)
TN06010103635_0200	Cobb Creek	WASHINGTON CO	RIVER	4.5	Alteration in stream-side or littoral vegetative covers	NA	Municipal (Urbanized High Density Area)
TN06010103635_0200	Cobb Creek	WASHINGTON CO	RIVER	4.5	Sedimentation/Siltation	NA	Municipal (Urbanized High Density Area)
TN06010103635_0200	Cobb Creek	WASHINGTON CO	RIVER	4.5	Escherichia coli	NA	Municipal (Urbanized High Density Area)
TN06010103635_1000	Knob Creek	WASHINGTON CO	RIVER	12.3	Nitrate/Nitrite (Nitrite + Nitrate as N)	L	Municipal (Urbanized High Density Area)
TN06010103635_1000	Knob Creek	WASHINGTON CO	RIVER	12.3	Nitrate/Nitrite (Nitrite + Nitrate as N)	L	Grazing in Riparian or Shoreline Zones
TN06010103635_1000	Knob Creek	WASHINGTON CO	RIVER	12.3	Sedimentation/Siltation	NA	Municipal (Urbanized High Density Area)
TN06010103635_1000	Knob Creek	WASHINGTON CO	RIVER	12.3	Sedimentation/Siltation	NA	Grazing in Riparian or Shoreline Zones
TN06010103635_1000	Knob Creek	WASHINGTON CO	RIVER	12.3	Alteration in stream-side or littoral vegetative covers	NA	Municipal (Urbanized High Density Area)
TN06010103635_1000	Knob Creek	WASHINGTON CO	RIVER	12.3	Alteration in stream-side or littoral vegetative covers	NA	Grazing in Riparian or Shoreline Zones
TN06010103635_1000	Knob Creek	WASHINGTON CO	RIVER	12.3	Escherichia coli	NA	Grazing in Riparian or Shoreline Zones
TN06010103635_1000	Knob Creek	WASHINGTON CO	RIVER	12.3	Escherichia coli	NA	Municipal (Urbanized High Density Area)







U.S. Fish & Wildlife Service

Threatened and Endangered Species

Small Whorled Pogonia

Isotria medeoloides



States where the small whorled pogonia, an orchid, is found.



The small whorled pogonia is a threatened species. Threatened species are animals and plants that are likely to become endangered in the foreseeable future. Endangered species are animals and plants that are in danger of becoming extinct. Identifying, protecting, and restoring endangered and threatened species is the primary objective of the U.S. Fish and Wildlife Service's endangered species program.

What is the small whorled pogonia?

Appearance - The small whorled pogonia is a member of the orchid family. It usually has a single grayish-green stem that grows about 10 inches tall when in flower and about 14 inches when bearing fruit. The plant is named for the whorl of five or six leaves near the top of the stem and beneath the flower. The leaves are grayish-green, somewhat oblong and 1 to 3.5 inches long. The single or paired greenish-yellow flowers are about 0.5 to 1 inch long and appear in May or June. The fruit, an upright ellipsoid capsule, appears later in the year.

Range - Although widely distributed, the small whorled pogonia is rare. It is found in 17 eastern states and Ontario, Canada. Populations are typically small with less than 20 plants. It has been extirpated from Missouri, New York, Vermont, and Maryland.

Habitat - This orchid grows in older hardwood stands of beech, birch, maple, oak, and hickory that have an open understory. Sometimes it grows in stands of softwoods such as hemlock. It prefers acidic soils with a thick layer of dead leaves, often on slopes near small streams.

What is the small whorled pogonia? (continued)

Why is the small whorled pogonia threatened?

What Is being done to prevent extinction of the small whorled pogonia?

Reproduction - This pogonia flowers from mid-May to mid-June, with the flowers lasting only a few days to a week. It may not flower every year but when it does flower, one or two flowers are produced per plant. If pollinated, a capsule forms that contains several thousand minute seeds. The pogonia appears to self-pollinate by mechanical processes. The flower lacks both nectar guides and fragrance and insect pollination has not been observed.

Habitat Loss and Degradation - The primary threat to the small whorled pogonia is the past and continuing loss of populations when their habitat is developed for urban expansion. Some forestry practices eliminate habitat. Also, habitat may be degraded or individual plants lost because of recreational activities and trampling.

Collection - As with all rare orchids, the small whorled pogonia is vulnerable to collecting for commercial or personal use.

Listing - The small whorled pogonia was added to the U.S. List of Endangered and Threatened Wildlife and Plants in 1982 as an endangered species. In 1994 it was reclassified to threatened.

Recovery Plan - The U.S. Fish and Wildlife Service prepared a recovery plan and revised that plan in 1992. The Recovery Plan describes and prioritizes actions needed to help recover the species.

Research - Many small whorled pogonia populations are being monitored to determine long-term population trends. Habitat management techniques, such as reducing shade through selected tree removal are being investigated.

Habitat Protection - A variety of government and private conservation agencies are working to preserve the small whorled pogonia and its habitat. Voluntary protection agreements have also been made with some private landowners.

What can I do to help prevent extinction of species?

Learn - Learn more about the small whorled pogonia and other endangered and threatened species. Understand how the destruction of habitat leads to loss of endangered and threatened species and our nation's plant and animal diversity.

Volunteer - Volunteer at your local zoo, wildlife refuge or nature center. Work with their staff or other community members to maintain and restore local habitat.

Protect – Protect native plants by cleaning your shoes after hiking to avoid spreading invasive plants seeds and staying on trails if you are hiking in an area with rare plants in the the understory.

Grow Natives - Grow native plants in your lawn and garden but obtain the plants from local nurseries, do not dig up native plants from natural areas. Avoid using invasive, non-native plants in landscaping, such as purple loosestrife, bush honeysuckles and burning bush.

U.S. Fish & Wildlife Service 1 Federal Drive Fort Snelling, Minnesota 55111 612/713-5350

City of Johnson City, TN
East Tennessee State University (Co-Permittee)
Public Information & Education (PIE) Plan

In fulfillment of Minimum Control Measure 1, BMP 1B TN Small MS4 General NPDES Permit No. TNS075370

December 2011

Prepared by: AMEC Environment & Infrastructure, Inc. City of Johnson City Public Information & Education Plan December 2011

Table of Contents

1.	Introduction	3
	Diagnosing Potential Stormwater Problems to Identify Targets	
	Public Information and Education Activities and Goals	
4.	Public Information and Education Implementation and Metrics	7

1. Introduction

This Public Information and Education (PIE) Plan presents a framework for the City of Johnson City's stormwater public education and outreach program. The PIE plan is required by the State of Tennessee Small Municipal Separate Storm Sewer (MS4) General NPDES (henceforth referred to as "the Small MS4 Permit"). The City, along with its co-permittee, East Tennessee State University, is authorized to use the permit under Permit Tracking No. TNS075370. The requirements of the PIE plan are listed in section 4.2.1 of the small MS4 permit, and must provide for the following actions:

- Detail specific goals and public information events/activities that will occur over the remainder of the permit cycle;
- Incorporate components from outreach campaigns and one-on-one communications;
- Incorporate a mode to evaluate the plan's effectiveness so adjustments can be made (if necessary); and,
- Include targeted educational campaigns addressing the following issues:
 - a. general public awareness on the impacts on water quality from general housekeeping maintenance/activities;
 - b. home owner associations and other operators of permanent BMPs awareness of the importance of maintenance activities;
 - c. local engineering and development community awareness of the stormwater ordinance, regulations, and guidance materials related to long-term water quality impacts;
 - d. General public and professional chemical applicators awareness on the proper storage, use, and disposal of pesticides, herbicides and fertilizers use;
 - e. General public and professional chemical applicators awareness on the proper storage, use and disposal of oil and other automotive-related fluids;
 - f. General public and municipal employees on the awareness of identifying and reporting procedures for illicit connections/discharges, sanitary sewer seepage, spills, etc.
 - g. Local engineering, development, and construction community awareness of stormwater ordinances, regulations and guidance materials related to construction phase water quality impacts; and,
 - h. Municipal employee/contractor awareness of water quality impacts from daily operations.

The objective of this PIE Plan is to document the City's plan for compliance with these requirements.

The PIE Plan shows that the City's PIE program provides both general information on impacts of stormwater discharges to water bodies and the steps that the public can take to reduce pollutants in stormwater runoff, and more targeted information for specific water resources, audiences, and/or pollutants located within the MS4. In other parts of the Small MS4 Permit, the City, as the MS4 operator, is required to serve as regulator or maintenance provider. The public education requirement engages the City in the more subtle role of educator, and invokes the use of marketing strategies, rather than citations, inspections or physical maintenance activities. The public education requirement is predicated on the idea that awareness of positive and negative behaviors can empower residents within an MS4 to have a positive impact on stormwater quality in their daily activities. Thus, if the MS4 can demonstrate it is promoting awareness, in tandem with its other responsibilities, then it has positioned itself to implement its

City of Johnson City
Public Information & Education Plan
December 2011

stormwater management program to the maximum extent practicable standard, as required by law. In addition to meeting the legal requirement, implementing a stormwater information and education program pays credence to the adage, "an ounce of prevention is worth a pound of cure". Though results can be difficult to measure, implementing an education program is generally considered more cost-effective than enforcement and/or physical corrective actions.

Most of the public information and education measures documented in this PIE Plan are already in place as part of the City's on-going Small MS4 Permit compliance program. The PIE Plan incorporates these existing activities and provides for new measures that address targeted geographic areas, people, or pollutants to meet the requirements of the current effective Small MS4 Permit. The plan provides a mode for evaluating effectiveness by establishing a method to record metrics for each educational activity, keeping in mind that the goal is to impress upon, or "touch" people and/or groups. By observing the number of impressions made from year to year, the City can evaluate the extent of its effort and decide whether it is properly allocating its resources, or if changes are needed. The metrics are also useful for the reporting requirement for the small MS4 permit.

2. Diagnosing Potential Stormwater Problems to Identify Targets

One way to identify specific streams and/or pollutants is to use information prepared by the State of Tennessee in the published 303(d) List of impaired streams. It is important to understand that the 303(d) List is prepared for watershed planning purposes, and small MS4s represent one of many watershed stakeholders in the overall process of addressing water quality issues. The City may choose to supplement information gathered from the 303(d) list with information it collected on its own, including, but not limited to visual observations in the field, information obtained from complaints, enforcement activities, or highly effective programs. Through examination of the 303(d) list, the City can determine which local water resources are exhibiting negative impacts, in the form of pollutants, which may be attributed to stormwater runoff from the small MS4. Additionally, the City may tailor its program to include or exclude listed streams in a context-sensitive way to emphasize education efforts for those streams which are substantially impacted by the City's MS4, i.e. streams with outfalls within the City's corporate limits. The next step is to consider the individuals or groups whose behaviors may affect the introduction of those pollutants to the MS4, thus identifying the target audience(s). Information and education on how their activities can have an impact on water quality can then be provided by the MS4, with the intent that the target audience will be inclined to change their approach to those activities. Target audiences are selected through a process of determining whose behaviors have the most potential to contribute pollutants to streams. This PIE Plan outlines activities that will be directed toward these targets. This PIE Plan outlines activities that will be directed toward these targets, which are identified in Table 1 below.

Table 1. PIE Plan Targets for the City of Bristol TN

	Target Pollutants	Target
		Audience(s)
Boone Reservoir	- Nitrate + Nitrite	- Land Developers
Boones Creek	- Escherichia Coli	- Engineers
Brush Creek	- Physical Substrate Habitat	- Construction Workers
Knob Creek	Alterations	- General Public
Cash Hollow Creek	- Habitat Loss Due to	- Municipal Employees
Cedar Creek	Alteration in Stream-Side or	- TBD by MS4 based on
Cobb Creek	Littoral Vegetative Cover	information collected in the
Sinking Creek	- Loss of biological integrity	field.
Catbird Creek	due to siltation	
Carroll Creek	-Other Anthropogenic Habitat	
Reedy Creek	Alterations	

In addition to targeted information, broad-spectrum information provided to the general public has a place in stormwater information and education programs because it offers opportunities to introduce the concept of stormwater systems and their impacts on receiving waters. People can relate to places where they derive drinking water or recreate. More importantly, they can see the value in protecting those resources, which could result in positive behaviorial changes. An advantage of incorporating general information for a general audience is that materials are typically already developed and available, relieving the City of the burden to develop new ones. Partnerships are often formed for the purpose of delivering stormwater messages to the general public, which also effectively leverages the city's resources. For these reasons, the City has chosen to implement a number of activities that address general information to the general public.

3. Public Information and Education Activities and Goals

A number of public information and education activities are currently being implemented by the City as a result of permit requirements under the 2003 Small MS4 Permit. New educational activities were added as a result of the issuance of the 2010 Small MS4 Permit. The total of these activities comprise the PIE Plan, which is presented in Table 2. The activities and goals are set to meet targets or provide general information with the resources that are available to the City. Each activity is associated with one or more message delivery methods or activity types. The chosen activities correspond with permit requirements.

Table 2. PIE Plan Activities and Goals

#	Description	Goal(s)	Туре	Target Groups	Target Pollutants	Target Streams	2010 Permit Citation(s)
1	-To promote awareness on the water quality impacts from general housekeeping and maintenance practicesTo provide information on how to identify and report suspected illicit dischargesProvides notice to the public for meetingsTo make development and construction community aware of long-term impacts of development and ordinances, policies and guidance materials related to daily activities. *Includes outreach to professional chemical applicators, (see #8 below).		Internet	Public	All	All	4.2.1.a, d-h 4.2.2
2	TNSA Social Media Campaign	To broaden the public understanding of the storm sewer system and how behaviors contribute to water quality.	Internet	Public	All	All	4.2.1.a, d, e, f
3	Public School Outreach	To engage youth by empowering students to make or influence informed choices on behaviors that affect stormwater.	Events, Printed Materials	School Children, Public	All	All	4.2.1
4	Watershed Groups	To provide support to groups which encourage citizens to take ownership of their water resources.	Group Planned Events	Public	Solid Waste/Litter	All	4.2.2
5	Public Notices	To comply with applicable state and local laws governing this activity.	Publications, Internet	Public	N/A	N/A	4.2.2
6	Hazardous Waste Collection Event Advertisements	To promote awareness that the improper disposal of these items has an impact on water quality,	Internet	Public	Household Hazardous Waste	All	4.2.1
7	Municipal Employee Training	To make municipal employees aware of water quality impacts from daily operations, and to education staff on how to identify and report illicit discharges.	Training Event	Municipal Staff	All	All	4.2.1.h
8	Construction Site Operator Information	To provide a vehicle for the development and construction community to access information on the long-term impacts of development	Internet	Developers, Engineers, Construction Workers	Siltation	All	4.2.1.b, c, g
9	Outreach to Professional Chemical Applicators**	To limit the improper storage, use and disposal of pesticides, herbicides fertilizer, and automotive fluids.	Internet	Landscapers, Automotive	PHFs, Automotive Waste	All	4.2.1.b

^{*}Indicates new activity to be added to existing program. ** Approached through the City's website and TNSA Social Media Campaign

4. Public Information and Education Implementation and Metrics

Under section 4.2.1 of the Small MS4 Permit, the PIE Plan must include a mode for evaluating effectiveness. The City must also track, maintain records and report education and outreach activities in the annual report for the small MS4 permit. The City will accomplish these requirements by providing a specific implementation schedule, with interim goals, and a way to record metrics for activities as they are performed. The annual entry of results verifies that the intended audience is being reached according to the plan. If any results are insufficient, reduced or missing, the City can seek adjustments to properly address inadequacies. Table 3 below outlines the implementation schedule and corresponding metric(s) for each PIE Activity, along with a place to enter results annually.

Table 3. Public Information and Education implementation and Metrics

Activity	Supporting Documentation	Metric	Permit Year	Results
1. Website	Printed copies of webpages, record of updates, and/or url	Number of web hits	5	274 Clicks, 15,351 Impressions (COJC) 36 FB, 13 Twitter (ETSU)
2. TNSA Social Media Campaign	Bi-annual DMA Regional reports provided by TNSA	Total Number of People Reached within the East / North East DMA Region	5	311, 401
3. Public School Outreach	Age/grade appropriate information distributed at schools	Est. Number of Materials Distributed	5	50 Activity Books from TNSA to University School
4. Support/Particip ate in Watershed Groups	Record of membership, (dues receipts, etc., as appropriate)	Staff Attends Bi-monthly Meetings	5	Staff attends all local meetings
5. Public Notices	Web hit counter, newspaper circulation information, number of posted notices and list of locations where they are placed	Number of Notices/Number of People in Attendance at Hearings and/or Comments Received	5	Bi-monthly-records on file
6. Hazardous Waste Collection Event Advertisements	Web hit counter	Number of Web Hits	5	1950 Clicks, 107K Impressions
7. Municipal Staff Training	Sign-in sheets with name, date and topic	Number of Staff Trained	5	42 (COJC) 14 (ETSU)

City of Johnson City Public Information & Education Plan December 2011

8. Construction Site Operator Information	Link to TNEPSC or equivalent for site operators to receive information on training opportunities	Maintain the Link	5	Linked
9. Outreach to Professional Chemical Applicators	This item addressed on the City's website, see item #1.	See Item #1	5	N/A

Government

Residents

Business

How Do I

Go All Out

West Walnut Plan



Translate aaa



Brush, Leaf & Grass Collection

Dumpster Service

Garbage Collection

Household Hazardous Waste & Misc. Disposal

Recycling

Spring Cleanup Event 2021

Washington County Convenience Centers

FAQ

SOLID WASTE



Amy Alley, Office Manager



HOUSEHOLD HAZARDOUS WASTE & GREAT AMERICAN CLEANUP - **THIS EVENT HAS BEEN CANCELLED.**

Washington County hosts a household hazar dols waste collection day each spring items that are accepted dinclude household chemicals, paint thinners, cleaners, pesticides, pool chemicals, flammables, fertilizers, and insecticides. Visit the Washington County Solid Weste website or cell 423-753-1652 for more information.

Great American Cleanup 2020 **This event has been concelled **.

Locations: Corner of Legion Street and State of Franklin Rd. - AND. - Corner of Liberty Bell Blvd. and Gueranda Dt. (Lot J.)

FURNITURE AND APPLIANCES [Available to city residents only]

Residents may arrange for funiture and appliances to be collected our baide by calling the Solid Waster Division at 423-975-2792. There is no additional charge for this service, but residents must call to have the items place don't he pick-up schedule. When placing a freezer or refrigerator at the street for collection, it is recommended that the appliance be place don't is lider door.

The City of Johnson City does not collect tires due to state lew prohibiting the disposal of tires insertiery lendfills. By lew, the county is responsible for the disposal or recycling of all tires from its jurisdiction. Tires are therefore accepted at Washington County Tire Center, 190 Lencester Road, Kingsport, T.N. 37663. Visit the Washington County Tire Center for more information.

BATTERIES

House hold batteries, both rechergeable and non-rechargeable, are accepted for recycling in our baids bins and in person at the Solid Waste Services Complex at 91 New St., Monday through Friday from 7 a.m. until 4:30 p.m. Both battery terminals must be taped securely. Batteries must be placed in a plastic sendwich/storage bagwith a zipper seal. If depositing batteries via our baids bins, please place baggies on top of other recyclables in the bin.

BUILDING MATERIALS AND CARPET

The City does not pick up building material or carpet. It is the property owner's responsibility to dispose of these items. Call his Clen Environmental Center at 4.23-926-8.375 for rides and rates reign ding disposal of these items.

Use dispositing oil is accepted for recycling via duritside bins. Residents are asked to strain foo aparticles from the oil and place the oil in a clear gallon container with a screw-a niid Lard shortening, and tallowere not accepted While used motor oils [NOkerosene, gasoline, brake or transmission fluids, paint thinner, etc.) are also accepted for recycling they should not be mixed with cooking also

FLUORESCENT BULBS

Fluorescent tubes and compact fluorescent bulbs (CFLs) are eccepted for recycling in person only at the Solid Waste Services.

Complex et 91 New St, Monday through Friday from 7 a.m. until 4:30 p.m. Tubes and bulbs should be placed in original packaging or wrapped in rewspaper. Only four tubes will be accepted per visit, there is no limit on CFLs. Tubes longer than 4 feet will not be accepte d

MEDICATIONS

A drop box for unused medications is located in the labby of the Johnson City Police Department, 601 E Main St.

Unuse dpaint should be left to dry incen, adding dirt or send if needed. After placing the lid back on the can, the can may be placed in the garbage cart for collection.



Not Rain? No Drain!

For more information on storm water management at ETSU, please contact the

Environmental Health and Safety Office at 439-6028 or visit our website at

http://healthsafety.etsu.edu/static/ stormwater. When there's heavy rain, the runoff goes down the storm drain and directly into our rivers, lakes, creeks, and other local water bodies. That includes pollutants on the ground plus those people may unfortunately allow to flow down storm drains like oil, paint, grass clippings, and trash. Rain is the only thing that belongs in a storm drain.

If you don't want it <u>in</u> your water, keep it <u>out</u> of the storm drain!

If you don't want it in your water, keep it out of the storm drain!

When there's heavy rain, the runoff goes down the storm drain and directly into our rivers, lakes, creeks and other local water bodies - unfiltered!

Trash, grass clippings, paint and pollutants do not belong in a storm drain.

Help keep our water safe!





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4	Michael Mortha	4143	Mit Butt
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Topic: Stormwater Pollution Prevention

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2	Chad Buckles	4033	Par berkler
3	THE BOWING	2743	and Red
4	James Hubbes	3793	and the
5	Andy Echaff	2259	and Shift
6	Tyler Everhart	4607	Juli Canhar
7	PAUL Robinson	1803	falkh
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Robert Monholle	n 4670	Mon
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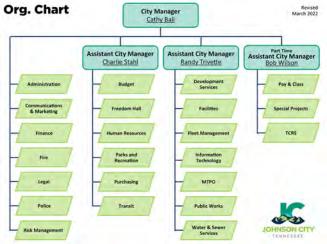
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Jason Painter	3195	12
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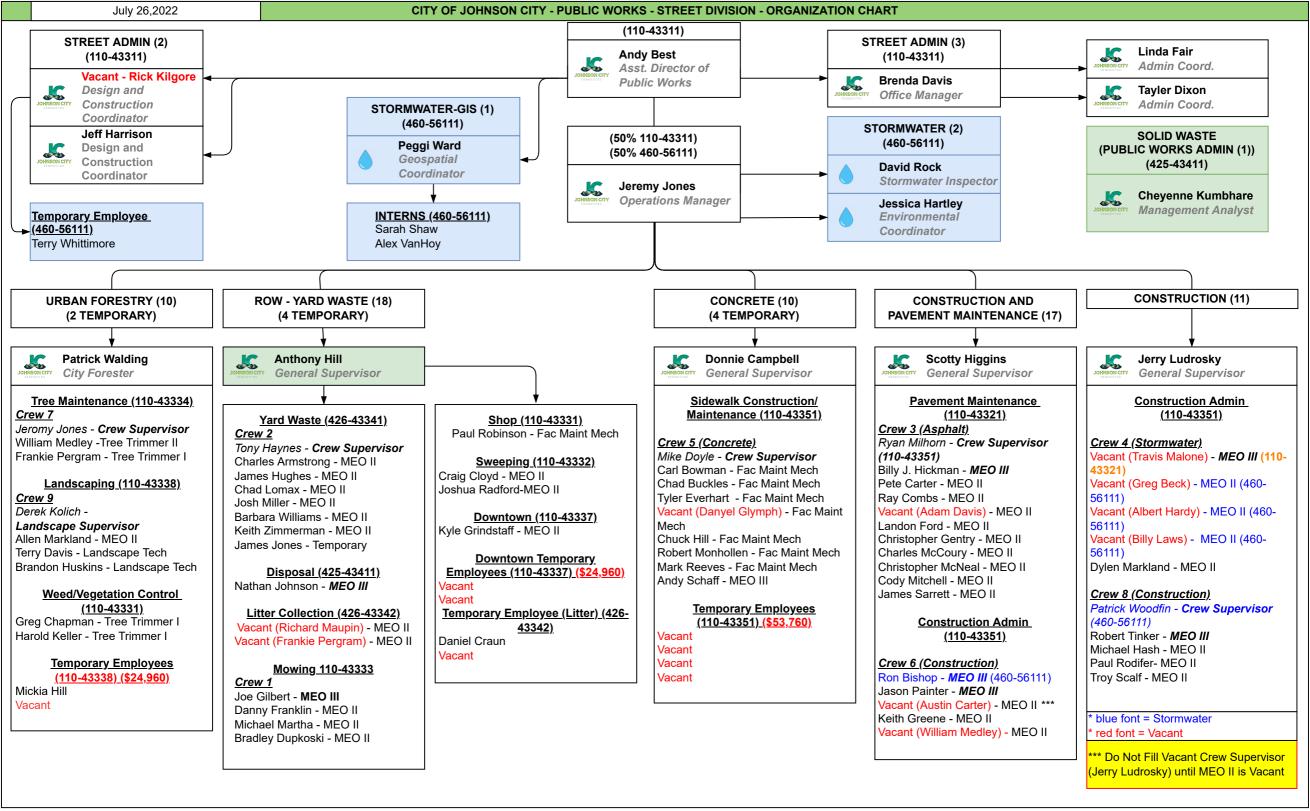


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Billy HICKMAN	1690	Pales Houling
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Services

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Government

Residents

Business

How Do I

Go All Out

Parks Master Plan Survey

West Walnut Plan



Back

SEE ALL NEWS

City to hold public comment period for Municipal Separate Storm Sewer System (MS4) Permit Annual Report

The City of Johnson City will hold a public comment period for the City's Municipal Separate Storm Sewer System (MS4) Permit Annual Report from 5-6 p.m. Wednesday, Sept. 28 at the City Services Complex, 209 Water St., in the Street Division Building (building with the glass foyer).

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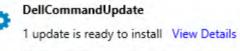












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Date: 9/28/2022 City Service - 209 Water Street, Johnson City TN

MS4 Annual Report Public Meeting and Comments- Sign-in Sheet

NAME	Organization	Address	Telephone and Email Address
JEREMY JONES	C 0 3 C	209 WATER 57. Sc, TN 31601	423-434-5784 jj-ns Gj-haracityan.org