



Tennessee Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower,
312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

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

1. MS4 Information

Name of MS4: CITY OF ELIZABETHTON		MS4 Permit Number: TNSO7581
Contact Person: Joseph Barnett		Email Address: jbarnett@cityofelizabethton.org
Telephone: (423) 547-6240		MS4 Program Web Address: http://www.elizababethnton.org/departments/utilities/stormwater_quality_program.php
Mailing Address: 136 SouthSycamore Street		
City: Elizabethton	State: TN	ZIP code: 37643

What is the current population of your MS4? 14,015 (source: census.gov 2021 estimate)

What is the reporting period for this annual report? July1 2021 to June 30 2022

2. Discharges to Waterbodies with Unavailable Parameters or Exceptional Tennessee Waters (Section 3.1)

- A. Does your MS4 discharge into waters with unavailable parameters (previously referred to as impaired) for pathogens, nutrients, siltation or other parameters related to stormwater runoff from urbanized areas as listed on TN's most current 303(d) list and/or according to the on-line state GIS mapping tool (tdeconline.tn.gov/dwr/)? If yes, attach a list. ☒ Yes ☐ No
- B. Are there established and approved TMDLs (<http://www.tn.gov/environment/article/wrws-tennessees-total-maximum-daily-load-tmdl-program>) with waste load allocations for MS4 discharges in your jurisdiction? If yes, attach a list. ☒ Yes ☐ No
- C. Does your MS4 discharge to any Exceptional Tennessee Waters (ETWs - http://environment-online.tn.gov:8080/pls/enf_reports/f?p=9034:34304:4880790061142)? If yes, attach a list. ☒ Yes ☐ No
- D. Are you implementing specific Best Management Practices (BMPs) to control pollutant discharges to waterbodies with unavailable parameters or ETWs? If yes, describe the specific practices: The City of Elizabethton implements BMPs as outlined in the City's Notice of Intent and this Annual Report for compliance with the small MS4 permit city-wide. Therefore, relevant stormwater management activities, which include but are not limited to, construction site runoff management and the requirements and policies for permanent stormwater management, are implemented in areas that discharge to the ETWs or ONRWs. For example, the City's Construction Site Management Program requires and oversees that applicable land developments comply with the State of Tennessee General Permit Number TNR100000 "Stormwater Discharges from Construction Activities," including Section 5.4 entitled "Discharges into Impaired or Exceptional Tennessee Waters." ☒ Yes ☐ No

3. Public Education/Outreach and Involvement/Participation (Sections 4.2.1 and 4.2.2)

- A. Have you developed a Public Information and Education plan (PIE)? ☒ Yes ☐ No

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- B. Is your public education program targeting specific pollutants and sources, such as Hot Spots? If yes, describe the specific pollutants and/or sources targeted by your public education program: Sediment, bacteria, hydrocarbons, and litter. ☒ Yes ☐ No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: htt://www.elizabethton.org/departments/utilities/stormwater_quality ☒ Yes ☐ No
- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: City of Elizabethton website and participation in Boone Watershed Partnership.
- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: The City of Elizabethton participated in most of the Boone Watershed Partnership (BWP) board meetings, and continues to participate in BWP educational outreach efforts through in-kind labor and providing grant funds. The City is a member of the Tennessee Stormwater Association (TNSA) and attends member meetings, as well as participating in the TNSA Social Media Campaigns. TNSA releases educational posts created for Facebook and Instagram that include topics like reducing toxic runoff through fertilizer control, how to dispose of household hazardous waste, litter and plastic reduction in streams, pet waste disposal, and the benefits of rain gardens. Additionally, the City has activity books and educational pamphlets for both children and adults at the City library (pictured in the attachment).
- 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: New signage was installed at Gap Branch as part of a project on the corner of Mary Patton Highway and G. Street using grant funds through the BWP. The signage provides information on restoration efforts and the importance of such efforts on the health of the stream (pictured in the attachment). The City also participated in the Ice Cream Social event with in conjunction with BWP, which recognized businesses and members of the community with Aquatic Stewardship awards (additional information on this event in the attachment). Lastly, through the TNSA Social Media Campaign for this reporting year, an average of 306,043 impressions (instances of content on screen) were made on the community through social media posts on Facebook and Instagram. The full report is located in the attachment.

4. Illicit Discharge Detection and Elimination (Section 4.2.3)

- A. Have you developed and do you continue to update a storm sewer system map that shows the location of system outfalls where the municipal storm sewer system discharges into waters of the state or conveyances owned or operated by another MS4? ☒ Yes ☐ No
- B. If yes, does the map include inputs into the storm sewer collection system, such as the inlets, catch basins, drop structures or other defined contributing points to the sewershed of that outfall, and general direction of stormwater flow? ☒ Yes ☐ No
- C. How many outfalls have you identified in your storm sewer system? 120
- 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: The City uses a City-specific document entitled IDDE Standard Operating Procedures (IDDE SOP) to guide MS4 outfall screening and documentation. The City's Stormwater Coordinator is responsible for performing and documenting IDDE outfall screening, response to reports of suspected illicit discharges and document handling of illicit discharges. ☒ Yes ☐ No
- F. How many illicit discharge related complaints were received this reporting period? 3

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- G. How many illicit discharge investigations were performed this reporting period? 3
- H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? 3 addressed and eliminated

5. Construction Site Stormwater Runoff Pollutant Control (Section 4.2.4)

- A. Do you have an ordinance or other regulatory mechanism requiring:
- | | | |
|---|---|-----------------------------|
| Construction site operators to implement appropriate erosion prevention and sediment control BMPs consistent with those described in the TDEC EPSC Handbook? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Construction site operators to control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> 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)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- B. Do you have specific procedures for construction site plan (including erosion prevention and sediment BMPs) review and approval? ☒ Yes ☐ No
- C. Do you have sanctions to enforce compliance? ☒ Yes ☐ No
- D. Do you hold pre-construction meetings with operators of priority construction activities and inspect priority construction sites at least monthly? ☒ Yes ☐ No
- E. How many construction sites disturbing at least one acre or greater were active in your jurisdiction this reporting period? 2
- F. How many active priority and non-priority construction sites were inspected this reporting period? 2
- G. How many construction related complaints were received this reporting period? 0

6. Permanent Stormwater Management at New Development and Redevelopment Projects (Section 4.2.5)

- A. Do you have a regulatory mechanism (e.g. ordinance) requiring permanent stormwater pollutant removal for development and redevelopment projects? If no, have you submitted an Implementation Plan to the Division? ☒ Yes ☐ No
☒ Yes ☐ No
- B. Do you have an ordinance or other regulatory mechanism requiring:
- | | | |
|---|---|-----------------------------|
| Site plan review and approval of new and re-development projects? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| A process to ensure stormwater control measures (SCMs) are properly installed and maintained? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Permanent water quality riparian buffers? If yes, specify requirements: <u>Title 18, Chapter 604 requires use of Water Quality BMP Manual</u> | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- C. What is the threshold for development and redevelopment project plans plan review (e.g., all projects, projects disturbing greater than one acre, etc.)? Projects that disturb 1 acre or more are subject to the permanent stormwater requirements of the City's stormwater ordinance and Water Quality BMP Manual. They undergo an administrative plan review process as established in the ordinance. Plans that do not meet ordinance requirements are not approved.
- D. How many development and redevelopment project plans were reviewed for this reporting period? 8
- E. How many development and redevelopment project plans were approved? 7

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- F. How many permanent stormwater related complaints were received this reporting period? 0
- G. How many enforcement actions were taken to address improper installation or maintenance? 0
- H. Do you have a system to inventory and track the status of all public and private SCMs installed on development and redevelopment projects? ☒ Yes ☐ No
- I. Does your program include an off-site stormwater mitigation or payment into public stormwater fund? If yes, specify. _____ ☐ Yes ☒ No

7. Stormwater Management for Municipal Operations (Section 4.2.6)

- A. As applicable, have stormwater related operation and maintenance plans that include information related to maintenance activities, schedules and the proper disposal of waste from structural and non-structural stormwater controls been developed and implemented at the following municipal operations:
- Streets, roads, highways? ☒ Yes ☐ No
- Municipal parking lots? ☒ Yes ☐ No
- Maintenance and storage yards? ☒ Yes ☐ No
- Fleet or maintenance shops with outdoor storage areas? ☒ Yes ☐ No
- Salt and storage locations? ☒ Yes ☐ No
- Snow disposal areas? ☐ Yes ☒ No
- Waste disposal, storage, and transfer stations? ☐ Yes ☒ No
- B. Do you have a training program for employees responsible for municipal operations at facilities within the jurisdiction that handle, generate and/or store materials which constitute a potential pollutant of concern for MS4s? ☒ Yes ☐ No
- If yes, are new applicable employees trained within six months, and existing applicable employees trained and/or retrained within the permit term? ☒ Yes ☐ No

8. Reviewing and Updating Stormwater Management Programs (Section 4.4)

- A. Describe any revisions to your program implemented during this reporting period including but not limited to:
- Modifications or replacement of an ineffective activity/control measure. none
- Changes to the program as required by the division to satisfy permit requirements. none
- Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. none
- 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. The stormwater management program was reviewed while preparing for this annual report. ☒ 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 specified in TCA 68-221-1106? If no, explain. _____ ☒ Yes ☐ No
- B. As applicable, identify which of the following types of enforcement actions (or their equivalent) were used during this reporting period; indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater management), and note those for which you do not have authority:

<u>Action</u>	<u>Construction</u>	<u>Permanent Stormwater</u>	<u>Illicit Discharge</u>	<u>In Your ERP?</u>	
Verbal warnings	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Written notices	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Citations with administrative penalties	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Stop work orders	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Withholding of plan approvals or other authorizations	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Additional Measures	# <u>0</u>	# <u>0</u>	# <u>0</u>	Describe: <u>N/A</u>	

- 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?
Suspected illicit discharges

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. No activities performed
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. No activities performed
- C. If applicable, are monitoring records for activities performed during this reporting period submitted with this report. ☐ Yes ☒ No

11. Certification

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

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

Daniel Estes, City Manager

Printed Name and Title

Signature

Date

Annual reports must be submitted by September 30 of each calendar year (Section 5.4) to the appropriate Environmental Field Office (EFO), identified in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	1301 Riverfront Pkwy, Suite 206	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 520-6688
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000

City of Elizabethton

MS4 Permit Annual Report

TNSO75281

July 1, 2021 to June 30, 2022

Additional Information

2.A. 303(d) List Information

List of waters with unavailable parameters related to stormwater runoff from urbanized areas into which the Elizabethton small MS4 discharges, based on TDEC's Final 2022 303(d) list, (Approved April 2022)

https://www.tn.gov/content/dam/tn/environment/water/planning-and-standards/wr_wq_303d-2020-final.xlsx

Waterbody Name/ID	Miles Impaired	Cause Name	Source Name
WATAUGA RIVER TN06010103008 – 2000	9.3	Unknown cause	Municipal (Urbanized High Density Area)
DAVIS BRANCH TN06010103008 – 0400	5.9	Alteration in streamside or littoral vegetative covers	Municipal (Urbanized High Density Area)
DOE RIVER TN06010103013 – 1000	17.8	Escherichia coli	Municipal (Urbanized High Density Area)
CATBIRD CREEK TN06010100346 – 0100	5.7	Sedimentation/Siltation	Municipal (Urbanized High Density Area)
		Alteration in stream-side or littoral vegetative covers	Municipal (Urbanized High Density Area)
GAP CREEK TN06010103008 – 0800	15.93	Alteration in stream-side or littoral vegetative covers	Municipal (Urbanized High Density Area)
		Sedimentation/Siltation	Municipal (Urbanized High Density Area)
		Nitrate+Nitrite	Municipal (Urbanized High Density Area)

2.B. TMDL Information

List of established and approved TOTAL MAXIMUM DAILY LOADS (TMDLs) with Wasteload Allocations (WLA) for MS4 discharges:

1. TMDL For Siltation and/or Habitat Alteration in The Watauga River Watershed (HUC 06010103) Carter, Johnson, Sullivan, Unicoi, and Washington Counties – March 17, 2006
2. TMDL for E. Coli in the Watauga River Watershed (HUC 06010103) Carter, Johnson, Sullivan, Unicoi and Washington Counties, Approved July 16, 2015

Support Information

Source of information found at TDEC website TMDL search and document viewer: <https://tdec.tn.gov/document-viewer/#/search/tmdl>

2.C. Exceptional Tennessee Waters Information

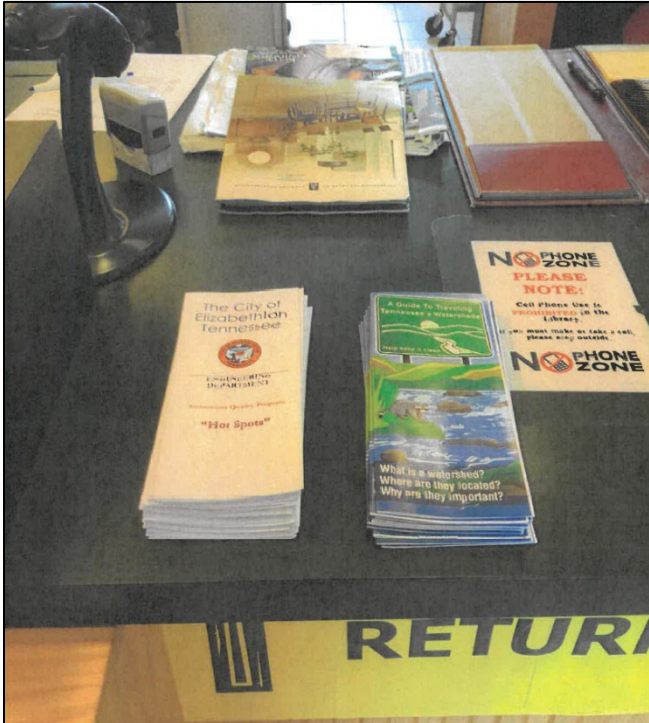
Source of information is the list entitled “The Known Exceptional Tennessee Waters and Outstanding National Resource Waters”, found at the following web-link: http://tdec.tn.gov:8080/pls/enf_reports/f?p=9034:34304:0:

Table 4. Exceptional TMDL Waters and Outstanding Resource Waters

HUC	Watershed Name	Waterbody	County	Description	Basis for Inclusion	From Lat	To Lat	From Long	To Long
06010103	Watauga	Watauga River including unnamed tributaries	Carter	Portion in Sycamore Shoals State Natural Area from River Mile 23.2 to 23.6 including unnamed tributaries within the park	Sycamore Shoals SNA	36.3465	36.3405	-82.2557	-82.2573
06010103	Watauga	Watauga River Unnamed Tributary	Carter	From Watauga River at River Mile 23.5 through Sycamore Shoals State Natural Area to park boundary	Sycamore Shoals SNA	36.3442	36.3423	-82.2557	-82.2525
06010103	Watauga	Doe River including tributaries	Carter	From Watauga River to headwaters including tributaries.	State threatened Longhead Darter in segment between Watauga River and George Creek. Headwaters are in the Cherokee NF, flows through Roan Mountain SP. Exceptional biological diversity. WPC ecoregion reference stream for 66d. Naturally reproducing rainbow and brown trout stream. State endangered Canada Burnet and Tufted Club Rush. State threatened Linear-Leaved Willow-Herb and Crested Shield-Fern.	36.3556	36.1461	-82.2126	-82.144

3E. Public Education Outreach and Involvement Activities

Activity book and pamphlets in the City Library





3F. Public Education Outreach and Involvement Outcomes

Newly installed sign for the Gap Branch Clean Water Project



3F. Public Education Outreach and Involvement Outcomes (continued)

Information from the Ice Cream Social and Aquatic Stewardship Awards Ceremony

<p>Previous recipients of Water Quality Awards:</p> <p>Appalachian RC&D Council Artie Roberts Betty Davis, University School Bill Beazell, Trout Unlimited Boone Lake Association Carter County Pollution Solutions Team Ken & Ellen Bronner Chris Mathes, Sherriff of Carter County City of Bristol City of Elizabethton 1998 and 2006 City of Johnson City 2000 and 2007 Countess Dairy Crumley Farms, Inc. Elizabethton Star Environmental Health Science Laboratory, ETSU First Tennessee Development District Gary Barrigar, Elizabethton High School General Shale Gerald & Robin Harrell, Farmers Green Valley Poultry Farm Hands-on Museum, Johnson City, TN Holston River Soil and Water Conservation District Ingrid Luffman, ETSU Jade Napier, Student, ETSU John Brown, Farmer John Little, Farmer Ken & Ellen Bronner King Dairy Lisa Gallagher, ETSU Lili Bucs, ETSU Mark Odom, TVA Mary Ann Kinch, Winged Deer Park, JC Mary Cain, Holston Middle School Mike Edmonds, Boones Creek Middle School Misty Waters Property Owners Association Natural Resources Conservation Service North American Corp./Carter County Clean Streams Northeast Tennessee Regional Stormwater Planning Group Phil Gentry, Tennessee High School Phil-Tenn Developers, LLC Ron Seigfried Russell Kinser, Natural Resources Conservation Service Russell Sutton, Farmer</p>	<p>Steele Creek Park Nature Center Tennessee Department of Environment and Conservation Tom Worley, Farmer Virginia Department of Environmental Quality Wal-Mart, Elizabethton</p> <p>2011—Deborah Wilkinson, and Rick Wimberly, Johnson City Press, Bristol Wal-Mart, Bill Gatton Honda, Bill Francisco, Bristol VA Public Works, Dwight and Zella Hunigan</p> <p>2012—Metin Eryasa (Riverview Backhoe and Excavating Service, Elizabethton), Wal-Mart Store #2809, Sam's Club Inc. #6518, Lowe's Store #0456, Gary Barrigar</p> <p>2013—Marvin Cornett, ETSU Department of Sustainability, Dr. Aimee Govett, Jeff Keeling, Beth Barchy-Smith, Russ Harrison</p> <p>2014—Joy Stewart, Scott Thomas, City of Bristol, TN, Washington County Soil Conservation District Youth Board, SecureStor (Cheryl Tupper and Charles LaPorte)</p> <p>2015—Charles Earhart, ETSU Geosciences Club, Connie Deegan (Johnson City Parks and Recreation)</p> <p>2016—Jason Foster (LDA Engineering), Overmountain Chapter Trout Unlimited, TNWRA, TVA, TDEC</p> <p>2017—Melanie Kelly, Mel and Gwen Ash, Dr. Judith Hammond (ETSU), TN Department of Corrections Carter County work camp</p> <p>2018—Essyx Design and Fabrication Inc., City of Johnson City, Annie Grant</p> <p>2019—Prosim Engineering, Shannon O'Quinn, Grandview Christian Church 456 Club</p> <p>30% recycled fiber </p>	<p align="center">Twenty-fourth Annual Boone Watershed Partnership Aquatic Stewardship Awards</p>  <p align="center">August 28th, 2021 Meredith Pavilion, Winged Deer Park, Johnson City, TN</p> <p>The Boone Watershed Partnership, Inc. is a 501(c)(3) nonprofit organization that works with local users, regional, state and federal entities, educators, and others to identify and address water resource issues in the Boone Watershed, an area of about 686 square miles lying in Sullivan, Washington, and Carter Counties of Tennessee and Washington County of Virginia.</p> <p align="center"><i>"To enhance the quality of life within Boone Watershed by improving water quality"</i></p>
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<h2>EVENTS</h2>	
1:00 p.m.	Welcome and Introductions <i>Jana Archer, BWP President</i>
1:10 p.m.	Ice Cream Social
1:30 p.m.	Projects Update
1:45 p.m.	Award Presentations
<div style="border: 1px solid blue; padding: 10px; margin-top: 20px;"> <p align="center">BOONE WATERSHED PARTNERSHIP AQUATIC STEWARDSHIP AWARD 2021 RECIPIENTS</p> <p align="center"><u>Industry/Business</u> Doug Hoilman, Hoilman Construction Company <i>(nominated by Bill Francisco)</i></p> <p align="center"><u>Civic Volunteer</u> David Rock <i>(nominated by Bili Francisco)</i></p> <p align="center"><u>Lifetime</u> Deborah Wilkinson <i>(nominated by Ingrid Luffman)</i></p> </div>	

3F. Public Education Outreach and Involvement Outcomes (continued)

Exerpt from 11-page TNSA Social Media Ads Report

TNSA 2021-2022 Social Media Campaign Final Numbers							
		Impressions	Post Interactions*	Link Clicks	Total Clicks**		
May Ad 1	Green grass is healthy grass. When using fertilizer to beautify your lawn, use it sparingly to keep excess fertilizer out of storm drains.	25,088	15,072	25,600	8,752	74,512	98%
May Ad 2	Compostable, biodegradable products offer an eco-friendly alternative to traditional single-use plastics as they can disintegrate into non-toxic, natural elements. These products are great options to help reduce litter and protect our waterways.	19,267	11,122	22,628	7,153	60,170	98%
June Ad 1	Many enjoy washing their car in the driveway on a nice summer day, but did you know that car washes have specialized drainage systems that prevent chemicals from reaching our waterways? If given the option, choose a car wash.	21,360	16,464	23,360	8,096	69,280	98%
June Ad 2	Did you know the things we do around the house every day can affect our rivers and streams? Many cleaning products found in homes shouldn't be flushed down the drain. Environmentally-friendly products that are free of chlorine or phosphate can be better alternatives to help protect our waterways.	20,272	13,184	20,128	6,832	60,416	98%
	Total	306,043	198,768	311,401	102,429	918,641	