

Jimmy W. Alexander  
*Mayor*

Tommy Dugger  
*Vice Mayor*

Derek Adams  
*Alderman*



Wendy Cook-Mucci  
*Alderman*

Russell Gill  
*Alderman*

Montique Luster  
*Town Recorder*

## Town of Nolensville

September 16, 2020

Tennessee Department of Environment and Conservation  
Nashville Environmental Assistance Center  
711 R.S. Gass Boulevard  
Nashville, Tennessee 37216

**Re:** Storm Water Phase II Program July 1, 2019 – June 30, 2020 Annual Report for Nolensville, TN - NPDES Number TNS077801

To Whom It May Concern:

The Town of Nolensville is pleased to submit this annual report as part of the Town's permit requirements for coverage under the State of Tennessee NPDES General Permit for discharges from small municipal separate storm sewer systems. This annual report contains the required information for the period July 1, 2019 through June 30, 2020.

The City has recently completed visual stream assessments and we are in the process of developing our Storm Water Management Program and Public Information and Education plans.

Please note that we have placed the enclosed annual report on the Town's website for public review/comment for a period of two weeks.

We look forward to continuing to work with the State in implementing our storm water management program described in the September 30, 2016 General Permit for Discharges from Small Municipal Separate Storm Sewer Systems. We anticipate our program will improve the water quality of the streams within our Town's MS4 permit jurisdiction, and we are striving to continually improve our program with the resources we have. If you have any questions concerning this annual report, please feel free to contact me at 615-776-3323 or the Town's consultant engineer, Mike Phillips at 615-383-8420.

Sincerely,  
**Town of Nolensville**

A handwritten signature in black ink, appearing to read "Donald R. Swartz".

Donald R. Swartz, P.E.  
Town Engineer  
615-776-3323 dswartz@nolensvilletn.gov



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

1. MS4 Information

Name of MS4: Town of Nolensville		MS4 Permit Number: TNS077801
Contact Person: Don Swartz, P.E.		Email Address: dswartz@nolensvilletn.gov
Telephone: (615) 776-3323		MS4 Program Web Address: nolensvilletn.gov/engineering
Mailing Address: 7218 Nolensville Road		
City: Nolensville	State: TN	ZIP code: 37135

What is the current population of your MS4? 11,000

What is the reporting period for this annual report? July 1 2019 to June 30 2020

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/](http://tdeconline.tn.gov/dwr/))? If yes, attach a list.  Yes  No
- B. Are there established and approved TMDLs (<http://www.tn.gov/environment/article/wr-ws-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](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: Specific BMPs are required for all new construction to target siltation.  Yes  No

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

- A. Have you developed a Public Information and Education plan (PIE)?  Yes  No
- B. Is your public education program targeting specific pollutants and sources, such as Hot Spots? If yes, describe the specific pollutants and/or sources targeted by your public education program: \_\_\_\_  Yes  No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: [http://www.mtas.tennessee.edu/system/files/codes/Nolensville\\_t18.pdf](http://www.mtas.tennessee.edu/system/files/codes/Nolensville_t18.pdf)  Yes  No
- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: Opportunities are periodically posted on the Town website or at Town Hall. Also, Nolensville participates in the TAB Program through TNSA.

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

- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: Printed storm water brochures and distributed them to the public at Town Hall and Post Office. The Town also participates in the TAB Program through TNSA.
- 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: None

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? approx. 72
- 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: Dry weather screenings of outfalls are performed semi-annually.  Yes  No
- F. How many illicit discharge related complaints were received this reporting period? 0
- G. How many illicit discharge investigations were performed this reporting period? 0
- H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? 0

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

- A. Do you have an ordinance or other regulatory mechanism requiring:
  - Construction site operators to implement appropriate erosion prevention and sediment control BMPs consistent with those described in the TDEC EPSC Handbook?  Yes  No
  - 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

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

- E. How many construction sites disturbing at least one acre or greater were active in your jurisdiction this reporting period? 9
- F. How many active priority and non-priority construction sites were inspected this reporting period? 9
- G. How many construction related complaints were received this reporting period? 23

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

- A. Do you have a regulatory mechanism (e.g. ordinance) requiring permanent stormwater pollutant removal for development and redevelopment projects? If no, have you submitted an Implementation Plan to the Division?  Yes  No  
 Yes  No
- B. Do you have an ordinance or other regulatory mechanism requiring:
  - Site plan review and approval of new and re-development projects?  Yes  No
  - A process to ensure stormwater control measures (SCMs) are properly installed and maintained?  Yes  No
  - Permanent water quality riparian buffers? If yes, specify requirements: See attached supplemental information.  Yes  No
- C. What is the threshold for development and redevelopment project plans plan review (e.g., all projects, projects disturbing greater than one acre, etc.)? Disturbed area greater than 5,000 square feet
- D. How many development and redevelopment project plans were reviewed for this reporting period? 17
- E. How many development and redevelopment project plans were approved? 17
- 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? 11
- 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

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

- B. Do you have a training program for employees responsible for municipal operations at facilities within the jurisdiction that handle, generate and/or store materials which constitute a potential pollutant of concern for MS4s?  Yes  No
- If yes, are new applicable employees trained within six months, and existing applicable employees trained and/or retrained within the permit term?  Yes  No

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

- A. Describe any revisions to your program implemented during this reporting period including but not limited to:  
 Modifications or replacement of an ineffective activity/control measure. N/A  
 Changes to the program as required by the division to satisfy permit requirements. N/A  
 Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. N/A
- B. In preparation for this annual report, have you performed an overall assessment of your stormwater management program effectiveness? If yes, summarize the assessment results, and any modifications and improvements scheduled to be implemented in the next reporting period. N/A  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. The Town of Nolensville has adopted an Enforcement Response Plan and has incorporated it into the newly adopted "Stormwater Management Ordinance 18-04".  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>#11</u>	<u>#0</u>	<u>#0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Written notices	<u>#11</u>	<u>#0</u>	<u>#0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Citations with administrative penalties	<u>#2</u>	<u>#0</u>	<u>#0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Stop work orders	<u>#2</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: _____	

- 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?  
Inadequate BMPs on active construction sites.

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

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. None
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. Visual Stream Assessments (VSAs) were performed by a qualified environmental consultant (TN QHP) during March 2020. A GIS database, as well as, a written report were provided to the Town documenting procedures and results for the VSAs at all outfalls. The VSAs were completed generally following the Maryland Stream Assessment Method and the TDEC Minimum Monitoring Requirements for NPDES MS4 Program Effectiveness and Compliance within the MS4 jurisdictional area for the Town of Nolensville for 165 outfalls.
- C. If applicable, are monitoring records for activities performed during this reporting period 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."*

Jimmy Alexander Mayor  
Printed Name and Title

Jimmy Alexander  
Signature

9-10-20  
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:

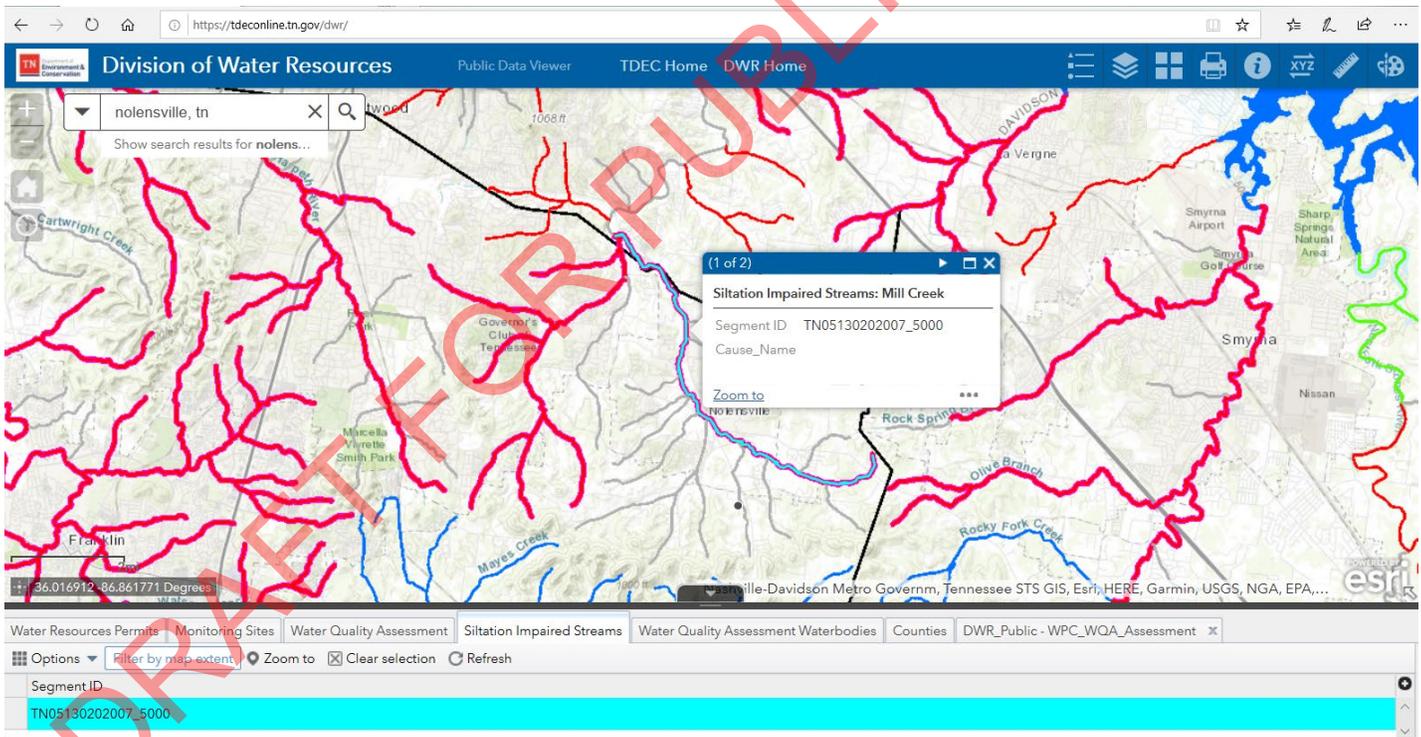
EFO	Street Address	City	Zip Code	Telephone
Chattanooga	1301 Riverfront Pkwy, Suite 206	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 520-6688
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
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

**Town of Nolensville  
TDEC Small MS4 Annual Report  
Permit Tracking Number TNS077801  
July 1, 2019 to June 30, 2020**

**Supplemental Information**

**Section 2. A.**

The TDEC Water Resources Public Data Viewer was accessed on September 11, 2020 and queried to find the listing of impaired streams within Nolensville's jurisdiction. The 2018 Final 303(d) list was also accessed. The 303(d) listed waters that the MS4 discharges to are Waterbody ID TN05130202 (007-5000). The cause of impairment is; Total Phosphorus (nutrients); loss of biological integrity due to siltation (sediment); low dissolved oxygen (organic enrichment/oxygen depletion). Data was obtained from the Final 2018 303(d) list and is attached. A map and other data from the online Water Quality Assessment Viewer is also provided.



# Town of Nolensville TDEC Small MS4 Annual Report Permit Tracking Number TNS077801 July 1, 2019 to June 30, 2020

## Supplemental Information

### Section 2. B.

The TDEC Water Resources Public Data Viewer was accessed on September 15, 2020 and queried to find the Exceptional Tennessee Waters within Nolensville's jurisdiction. Mill Creek and tributaries are classified as ETWs within Nolensville. A screen capture from the Data Viewer site is immediately below:

1 - 8 of 8

HUC	Watershed Name	Waterbody	County	Description	Basis for Inclusion	From Lat	To Lat	From Long	To Long
05130202	Cumberland-Lower-Sycamore (Cheatham Lake)	Mill Creek (including tributaries)	Davidson, Williamson	From Cheatham Reservoir to origin including all tributaries except those that have been identified by WPC, TDEC as not having habitat appropriate for the Nashville Crayfish or any other exceptional feature (see non-exceptional Tennessee waters).	Federal endangered Nashville Crayfish and state threatened Water Stitchwort.	36.1671	35.9479	-86.7119	-86.6209
05130202	Cumberland-Lower-Sycamore (Cheatham Lake)	Owl Creek including tributaries	Davidson, Williamson	From Mill Creek to headwaters including tributaries.	Federal endangered Nashville Crayfish has been documented from Mill Creek to Owl Creek Rd crossing. All tributaries to Mill Creek are included in high quality status due to Nashville Crayfish habitat.	36.0028	35.9318	-86.7008	-86.7268
05130202	Cumberland-Lower-Sycamore (Cheatham Lake)	Mill Creek Unnamed Tributary	Williamson	From Mill Creek near Old Hickory Blvd to Hwy 11/41a/31a crossing.	Federal endangered Nashville Crayfish.	35.9952	35.9962	-86.6894	-86.6889
05130202	Cumberland-Lower-Sycamore (Cheatham Lake)	Mill Creek Unnamed Tributary	Williamson	From Mill Creek d/s of Nolensville to confluence of headwaters.	Federal endangered Nashville Crayfish	35.9569	35.933	-86.6725	-86.7015
05130202	Cumberland-Lower-Sycamore (Cheatham Lake)	Rock Spring Branch	Williamson	From Mill Creek to Williamson County line.	Federal endangered Nashville Crayfish.	35.9433	35.9539	-86.6444	-86.625
05130202	Cumberland-Lower-Sycamore (Cheatham Lake)	Mill Creek Unnamed Tributary	Williamson	Unnamed tributary from confluence with Mill creek to origin.	State endangered streamside salamander Ambystoma barbouri.	35.946963	35.9526116	-86.6507668	-86.644349
05130202	Cumberland-Lower-Sycamore (Cheatham Lake)	Mill Creek Unnamed Tributary	Williamson	Unnamed tributary from Mill Creek to origin (is not blue line on topo - survey completed at 4 locations by Division of Natural Areas on 03/04/16 and 09/30/15. First confirmed observation in Williamson County.	State endangered streamside salamander Ambystoma barbouri.	35.9525016	35.9526116	-86.6532487	-86.644349
05130202	Cumberland-Lower-Sycamore (Cheatham Lake)	Mill Creek Unnamed Tributaries	Williamson	Unnamed tributaries with confluence to Mill Creek between specified coordinates to origin of each tributary.	State endangered streamside salamander Ambystoma barbouri	35.94908	35.943869	-86.658098	-86.64561

**Town of Nolensville  
TDEC Small MS4 Annual Report  
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**Supplemental Information**

**Section 6.B**

The following pages contain an excerpt from the Town of Nolensville Storm Water Management Regulations (Ordinance #18-04), adopted in 2018, related to permanent water quality riparian buffers.

***Section 4: Waterway Natural Areas***

***4.1 General Waterway Natural Area Requirements***

- A. Waterway Natural Areas (WNA) shall be implemented in Major Subdivisions as Open Space. In any development other than a Major Subdivision where open space is not provided, the WNA shall be on private lots.*
- B. WNA width shall be at least 100 feet perpendicular from the top of bank on each side of the waterway where tributary area is greater than or equal to five (5) square miles at the location of the subdivision or development.*
- C. WNA width shall be at least 75 feet perpendicular from the top of bank on each side of the waterway where the tributary area is greater than or equal to one (1) square mile and less than five (5) square miles at the location of the subdivision or development.*
- D. WNA width shall be at least 50 feet perpendicular from the top of bank on each side of the waterway where the tributary area is less than one (1) square mile at the location of the subdivision or development.*
- E. WNAs shall be applied along all intermittent and perennial stream waterways as determined by the Town, TDEC, Tennessee Qualified Hydrologic Professional or USGS topographic information. This determination shall be presented at the pre-application conference phase, however the Town reserves the right to identify a waterbody until preliminary plat approval.*
- F. WNAs shall be recorded on the plat for parcels subject to plat revision.*
- G. On parcels not subject to plat revisions, the WNAs shall be applied as a setback from the top of bank.*
- H. WNA designations shall not reduce Base Site Area and may be included as part of the required open space.*
- I. All site development plans and plats prepared for recording shall:
  - 1. Define the boundaries of any WNA on the subject property and label as "Waterway Natural Area".*
  - 2. Provide a note to reference any WNA stating: "There shall be no clearing, grading, construction or disturbance of vegetation except as permitted by the Town Engineering**

**Town of Nolensville  
TDEC Small MS4 Annual Report  
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July 1, 2019 to June 30, 2020**

**Supplemental Information**

*Department."*

3. *Provide a note to reference any protective covenants governing all WNAs stating: "Any Waterway Natural Area shown hereon is subject to protective covenants which may be found in the land records and which restrict disturbance and use of these areas."*
- J. *All WNAs must be protected during development activities. Construction layout survey must include staking and labeling the WNAs. Use a combination of stakes and flagging to ensure adequate visibility.*
- K. *Minor landscaping is allowed within the WNA to repair erosion, damaged vegetation, or other problems identified. Landscaping or stabilization activities must have prior approval by the Engineering Department.*

**4.2 Permitted Waterway Natural Area Uses:**

- A. *If the adjacent land use involves subsurface discharges or surface application from a wastewater treatment system that serves more than one household or a non-residential use, effluent will not be allowed to discharge in the WNA except as provided herein. Where TDEC has granted an NPDES wastewater permit, the permittee is allowed to convey the effluent through the WNA to the waterway designated in the NPDES permit.*
- B. *Septic tanks must be outside of Waterway Natural Area. Septic field lines may be allowed within the WNA to within 25 feet from stream top of bank or as determined by the Williamson County Department of Sewage Disposal Management, whichever provides the greatest distance from top of stream bank.*
- C. *No buildings shall be allowed in the WNA with the exception of passive recreation areas.*

**Town of Nolensville  
TDEC Small MS4 Annual Report  
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**Supplemental Information**

**Section 6.H**

SCMs are tracked through Long Term Operations and Maintenance Plan Agreements, which are required for submittal of construction plans for grading permit requests. Grading permits are not issued until LTOMP Agreements are approved and recorded with the development plat. Six (6) new LTOMP Agreements were recorded during this permit period.

DRAFT FOR PUBLIC REVIEW