Storm Water Management Program Assessment Report for Permit No. NCS000395

Reporting Period:
July 1, 2024 through June 30, 2025 (FY2025)

Co-Permittees:
Mecklenburg County, Charlotte-Mecklenburg Schools, Central Piedmont Community College and the Towns of Cornelius, Davidson, Huntersville, Matthews, Mint Hill, and Pineville

Report Date: August 2025

Report Prepared by:
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Charlotte-Mecklenburg STORM WATER Services

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Table of Contents

Tables

Attachments

Certification

By my signature below I hereby 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 fines and imprisonment for knowing violations.

I am also aware that the contents of this document shall become an enforceable Section of the NPDES MS4 Permit, and that both the Division and the Environmental Protection Agency have NPDES MS4 Permit compliance and enforcement authority.

☐ I am a ranking elected official.

☐ I am a principal executive officer for the permitted MS4.

X I am a duly authorized representative for the permitted MS4 and have attached the authorization made in writing by a principal executive officer or ranking elected official which specifies me as (*check one*):

- X A specific individual having overall responsibility for stormwater matters.
- ☐ A specific position having overall responsibility for stormwater matters.

Signature:	
Print Name:	Don Ceccarelli
Title:	Division Director, Storm Water Services
Signed this _29_ day of __August___ 2025.	

Section 1: Introduction

This document satisfies the annual assessment and reporting requirement of Storm Water Permit No. NCS000395 as follows:

- Evaluate program compliance, the appropriateness of best management practices (BMPs), and progress towards achieving measurable goals; and
- Evaluate the performance and effectiveness of the Storm Water Quality Management Program Plan, herein referred to as the Storm Water Plan.

Charlotte-Mecklenburg Storm Water Services (CMSWS) has developed and is maintaining the Storm Water Plan for Permit No. NCS000395 on behalf of all co-permittees, including Mecklenburg County, Charlotte-Mecklenburg Schools (CMS), Central Piedmont Community College (CPCC), and the Towns of Cornelius, Davidson, Huntersville, Matthews, Mint Hill, and Pineville. This Storm Water Plan is available on the following website: http://stormwater.charmeck.org (select "Surface Water Quality," select "National Pollutant Discharge Elimination System (NPDES) Permits," select "Current Storm Water Management Plan" under Phase II Permit at the bottom of the page). The purpose of the Storm Water Plan is to describe the actions undertaken by the Permittee to ensure compliance with Permit requirements. Each of the six (6) minimum measures contained in the Permit plus TMDL compliance (referred to as Programs) has a separate section in the Storm Water Plan. Each section includes a Summary Table that describes the Best Management Practices, referred to as BMPs, that will be undertaken to fulfill Permit requirements. These BMPs include specific Measurable Goals that must be completed in accordance with established schedules to ensure fulfillment of the BMP. Fulfillment of the BMPs equates to compliance with the Storm Water Plan and Permit. The BMPs and Measurable Goals are described in detail every year in a Work Plan with BMPs referred to as program elements and the Measurable Goals referred to as tasks. The Work Plan Program Element Documentation Log (Log) is completed by staff assigned the lead role in the fulfillment of program elements and assigned tasks. The Logs serve to document the who, what, when, where, and how regarding tasks as they are completed throughout the fiscal year. Various attachments, such as maps, presentations, data tables, etc., complement the Logs as necessary to ensure complete documentation of all activities completed and data and information generated. These Logs and attachments are assessed and approved by supervisors before they are loaded into the Cityworks database attached to an Activity Report where they are available for access digitally. At the end of the fiscal year, established Measures of Success as described in the Storm Water Plan are calculated and assessed along with the assessment of Logs and associated attachments by the supervisors to determine compliance with the Storm Water Plan and Permit. These assessments also serve as the basis for identification of improvements to the Storm Water Plan, Work Plan and Measures of Success to enhance efforts for Permit compliance, which are implemented during the next fiscal year.

Section 2 of the annual report contained herein provides background information regarding the implementation of the Storm Water Plan between July 1, 2024 and June 30, 2025 (FY2025), including a fiscal analysis. Sections 3 through 9 provide an overview of the programs implemented to fulfill Permit requirements, including BMP Summary Tables for the six (6) minimum measures and TMDLs with Work Plan Codes, BMP Descriptions, Measurable Goals, Schedules, and Activity Reports numbers from Cityworks that contain Logs with details

regarding Permit compliance activities as described above. The detailed Logs are not provided in this annual report but are available upon request to Mecklenburg County's Storm Water Division Director at 980-314-32109 or Don.Ceccarelli@mecklenburgcountync.gov. The BMP Summary Tables also contain the numbers for Attachments provided at the end of this annual report that include a summary of data and information accumulated throughout the reporting year as well as lists of changes to the Storm Water Plan. Attachment 1 provides data generated from Phase II activities. The remainder of the attachments include more detailed information regarding specific countywide activities. Section 11 of this report provides an assessment of compliance with the Storm Water Plan and Permit requirements, as well as the status of attainment of the identified Measure of Success during FY2025. Section 12 concludes with a summary of the status of Work Plan modifications for improving Permit compliance during FY2025 and changes to be implemented in FY2026.

Section 2: Overview and Funding

CMSWS is responsible for developing, implementing, managing, and overseeing the Storm Water Plan under the direction of Mecklenburg County's Water Quality Program Manager. The specific tasks, deadlines, and assigned staff for fulfillment of the Storm Water Plan are described in an annual Work Plan. A copy of this Work Plan is available upon request to Mecklenburg County's Water Quality Program Manager. As specified in the Permit, each co-permittee is responsible for compliance with the terms and conditions of the Permit for storm water activities and watershed specific requirements within their jurisdictional area. Appropriate legal authority has been established by each jurisdiction for implementation of the Storm Water Plan through the adoption of Surface Water Pollution Control Ordinances that prohibit illicit discharges to the MS4 as well as the adoption of post-construction and erosion control ordinances. Mecklenburg County is delegated authority by each jurisdiction to enforce these ordinances. The majority of Permit compliance activities are performed by the Water Quality and Permitting and Compliance Programs within CMSWS. Funding for implementation of these Programs is shared by each jurisdiction based on an adopted Funding Strategy. Implementation costs for the reporting period of July 1, 2024 through June 30, 2025 (FY2025) were $802,562.63, including $573,668.59 and $228,894.04 for the Water Quality and Permitting and Compliance Programs, respectively. For FY2026, the annual budget is set at $939,748.42. The Phase II jurisdictions in Mecklenburg County utilize the revenue they receive from their storm water and land development fees to fund the implementation of the Program with the exception of CMS and CPCC, which do not receive revenue from the storm water fee and therefore fund Phase II Program implementation through their general budget.

Section 3: Stormwater Management Program Administration

3.1 Program Overview

A program has been developed and is currently being implemented for administering the Phase II Permit for Mecklenburg County's Phase II jurisdictions/entities for the purpose of ensuring that all Permit requirements are effectively and efficiently fulfilled by co-permittees in accordance with the Storm Water Plan and that the administration requirements specified in the Permit are being met. The program includes two (2) separate BMPs and 11 Measurable Goals as described in Table 1 below. The goal of Program Administration is to implement, manage and oversee the provisions of the Storm Water Plan to control to the maximum extent practical the discharge of pollutants from the municipal storm sewer system associated with stormwater runoff and illicit discharges, including spills and illegal dumping and to ensure that all Phase II Permit requirements are effectively and efficiently fulfilled.

3.2 Status of the Implementation of the Storm Water Plan

Table 1 describes in Column A the BMPs identified in the Storm Water Plan for Stormwater Management Program Administration. The specific actions (i.e., Measurable Goals) undertaken for implementation of these BMPs are described in Column B with the schedule provided in Column C. Column D includes the Annual Reporting Metrics. Column E indicates the Annual Reporting Status, including whether the Measurable Goals were completed, and Permit compliance achieved as well as the Activity Report number from our Cityworks database that includes detailed documentation of completion and the Attachment # that contains the data and information generated, if applicable.

Table 1: BMP Summary Table for Stormwater Management Program Administration

Program Development (Permit Ref. Part II Section A.4, 5 and 6; Part III Sections A,B,C,D; Part IV Sections A,B,D,E,F,G) Performing activities necessary to fulfill the administrative requirements for compliance with permit requirements, including coordinating with co-permittees, completing the annual assessment report, applying for permit renewal, and updating the Storm Water Management Program Plan as necessary.

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
#1 PD-1	Permit Development				
	Developing and submitting the annual assessment report required by the Phase II Permit to document compliance with the Phase II Storm Water Management Program.	a. Annual Report	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved, (e) is in progress, (f) and (g) are not applicable for this fiscal year AR#: 87388, 100009 Attachment #: 1 and 2
		b. Annual Assessment for Phase II Permit Compliance	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Discuss and Facilitate Work Plan Changes	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Implement Recommendations for Improvement	Continuously Permit Years 1-5	d.1 Completed/Not Completed d.2. List improvements implemented	
		e. Submit Quarterly Reports to Co-permittees	Continuously Permit Years 1-5	e.1. Completed/Not Completed	

Table 1: BMP Summary Table for Stormwater Management Program Administration					
Program Development (Permit Ref. Part II Section A.4, 5 and 6; Part III Sections A,B,C,D; Part IV Sections A,B,D,E,F,G) Performing activities necessary to fulfill the administrative requirements for compliance with permit requirements, including coordinating with co-permittees, completing the annual assessment report, applying for permit renewal, and updating the Storm Water Management Program Plan as necessary.					
BMP # & Work Plan Code	**A**	**B**	**C**	**D**	**E**
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
				e.2. Dates Quarterly Reports were sent to each co-permittee/entity	
		f. Certify and Submit Stormwater Permit Renewal	As scheduled by NCDEQ	Completed/Not Completed/Not Applicable	
		g. Participate in an NPDES MS4 Permit Compliance Audit	As scheduled by NCDEQ	Completed/Not Completed/Not Applicable	
#2 PD-3	Evaluate Effectiveness of Storm Water Plan				
	Evaluating the effectiveness of the Storm Water Quality Management Program Plan and updating as necessary, including all written policies and procedures.	a. Annual Report	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87389, 100010 Attachment #: 2
		b. Annual Assessment for Storm Water Plan Compliance	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Discuss and Facilitate Work Plan Changes	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Implement recommendations for improvement	Continuously Permit Years 1-5	d.1 Completed/Not Completed d.2. List improvements implemented	

Section 4: Public Education and Outreach Program

4.1 Program Overview

CMSWS has developed and implemented a Public Education and Outreach Program for Mecklenburg County's Phase II jurisdictions/entities. The Program includes three (3) separate BMPs and 18 Measurable Goals as described in Table 2 below. Program activities are administered by an Environmental Supervisor working in cooperation with an Environmental Manager and multiple key staff with CMSWS's Water Quality Program. The goals of the Public Education and Outreach Program are to change public behaviors to reduce sources of water pollution and improve water quality as well as to promote participation in activities aimed at restoring water quality conditions.

4.2 Status of the Implementation of the Storm Water Plan

Table 2 describes in Column A the BMPs identified in the Storm Water Plan for the Public Education and Outreach Program. The specific actions (i.e., Measurable Goals) undertaken for implementation of these BMPs are described in Column B with the schedule provided in Column C. Column D includes the Annual Reporting Metrics. Column E indicates the Annual Reporting Status, including whether the Measurable Goals were completed, and Permit compliance achieved as well as the Activity Report number from our Cityworks database that includes detailed documentation of completion and the Attachment # that contains the data and information generated, if applicable.

Table 2: BMP Summary Table for the Public Education and Outreach Program

Public Education and Outreach (Permit Ref. Part II Section B; Part III Sections A,B,C,D; Part IV Sections B,F): Distributing educational materials to the community or conducting equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff.

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
#3 PE-10	Community Education and Outreach				
	Performing public education and outreach activities.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 86469, 96462 Attachment #:1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Coordinate with City and Co-Permittees, Review and Update SOPs, Review and Update Target Pollutants, Audiences, Residential/ Commercial Issues	Continuously Permit Years 1-5	Completed/Not Completed	

Table 2: BMP Summary Table for the Public Education and Outreach Program

Public Education and Outreach (Permit Ref. Part II Section B; Part III Sections A,B,C,D; Part IV Sections B,F): Distributing educational materials to the community or conducting equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff.

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
		d. Develop, Update, Distribute, and Make Available Educational Materials	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # of materials distributed responding to service requests per jurisdiction # of events where materials were distributed per jurisdiction # of event attendees per jurisdiction # of public presentations per jurisdiction # of public presentation attendees per jurisdiction	
		e. Develop and send newsletters	Continuously Permit Years 1-5	Completed/Not Completed	
		f. Develop and Implement Public Education Media Campaign	Continuously Permit Years 1-5	Completed/Not Completed	
		g. Develop and Conduct Outreach for Schools, including promoting volunteer programs	Continuously Permit Years 1-5	g.1. Completed/Not Completed g.2. # of presentations and # of students reached by jurisdiction	
		h. Develop and Conduct Outreach for Industrial/Commercial Sector	Continuously Permit Years 1-5	Completed/Not Completed	
#4 PE-2	Educational Outreach and Involvement for CMS and CPCC				
	Coordinating with CMS and CPCC staff to provide brochures, create web links, and coordinate participation in educational events.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved PE-2 CMS AR#: 86470, 96475 PE-2 CPCC AR#: 86471, 96476
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Develop and Distribute Educational Messaging	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Maintain Links	Continuously Permit Years 1-5	Completed/Not Completed	

Table 2: BMP Summary Table for the Public Education and Outreach Program					
Public Education and Outreach (Permit Ref. Part II Section B; Part III Sections A,B,C,D; Part IV Sections B,F): Distributing educational materials to the community or conducting equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff.					
BMP # & Work Plan Code	**A**	**B**	**C**	**D**	**E**
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
		e. Promote Adopt-A-Stream and Storm Drain Marking	Continuously Permit Years 1-5	Completed/Not Completed	
#5 PE-9	Evaluate the Public Education and Outreach Program				
	Evaluating the effectiveness of the Education & Outreach Program.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 86472, 96460 Attachment #: 2
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Discuss and Facilitate Work Plan Changes	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Implement Recommendations for Improvement	Continuously Permit Years 1-5	d.1 Completed/Not Completed d.2. List improvements implemented	
		e. Review Public Opinion Survey	Continuously Permit Years 1-5	Completed/Not Completed	

Section 5: Public Involvement and Participation Program

5.1 Program Overview

CMSWS has developed and implemented a Public Involvement and Participation Program for Mecklenburg County's Phase II jurisdictions/entities. The Program includes nine (9) separate BMPs and 40 Measurable Goals as described in Table 3 below. Program activities are administered by an Environmental Supervisor working in cooperation with an Environmental Manager and multiple key staff with CMSWS's Water Quality Program. The goal of the Public Involvement and Participation Program is to create opportunities for the public to participate in Phase II program development and implementation, as well as to get involved in activities aimed at protecting and restoring water quality conditions.

5.2 Status of the Implementation of the Storm Water Plan

Table 3 describes in Column A the BMPs identified in the Storm Water Plan for Public Involvement and Participation Program. The specific actions (i.e., Measurable Goals) undertaken for implementation of these BMPs are described in Column B with the schedule provided in Column C. Column D includes the Annual Reporting Metrics. Column E indicates the Annual Reporting Status, including whether the Measurable Goals were completed, and Permit compliance achieved as well as the Activity Report number from our Cityworks database that includes detailed documentation of completion and the Attachment # that contains the data and information generated, if applicable.

Table 3: BMP Summary Table for the Public Involvement and Participation Program

Public Involvement & Participation (Permit Ref. Part II Section C; Part III Sections A,B,C,D; Part IV Sections B,F): Developing and implementing a program to provide opportunities for the public, including major economic and ethnic groups, to participate in efforts to protect and restore surface water quality. (Note: SOPs are the same for Phases I and II. Documentation for revising these SOPs and performing training is contained under the Phase I program element.)

BMP # & Work Plan Code	A	B	C	D	E
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
#6 PI-1	Phase II Public Meeting				
	Providing and promoting public involvement.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87390, 100011 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Conduct Meeting with SWAC	Continuously Permit Years 1-5	d.1 Completed/Not Completed d.2. # meetings held and # attending	

Table 3: BMP Summary Table for the Public Involvement and Participation Program

Public Involvement & Participation (Permit Ref. Part II Section C; Part III Sections A,B,C,D; Part IV Sections B,F): Developing and implementing a program to provide opportunities for the public, including major economic and ethnic groups, to participate in efforts to protect and restore surface water quality. (Note: SOPs are the same for Phases I and II. Documentation for revising these SOPs and performing training is contained under the Phase I program element.)

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
		d. Update and Implement the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
#7 PI-2	Adopt-A-Stream				
	Implementing the Adopt-A-Stream Program.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 86490, 96469 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Conduct Daily Operations of Program	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # of volunteers and lbs. of trash removed by jurisdiction	
		e. Update Volunteer Database	Continuously Permit Years 1-5	Completed/Not Completed	
		f. Ensure Related Water Quality Problems Are Investigated	Continuously Permit Years 1-5	f.1. Completed/Not Completed f.2. # of problems reported by jurisdiction	
#8 PI-3	Storm Drain Marker				
	Implementing the Storm Drain Marker Program.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 86491, 96465 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs – Review SOPs annually and revise as necessary	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Conduct Daily Operations of Program	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # of volunteers and	

Table 3: BMP Summary Table for the Public Involvement and Participation Program

Public Involvement & Participation (Permit Ref. Part II Section C; Part III Sections A,B,C,D; Part IV Sections B,F): Developing and implementing a program to provide opportunities for the public, including major economic and ethnic groups, to participate in efforts to protect and restore surface water quality. (Note: SOPs are the same for Phases I and II. Documentation for revising these SOPs and performing training is contained under the Phase I program element.)

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
				# of drains marked by jurisdiction	
		e. Update Volunteer Database	Continuously Permit Years 1-5	Completed/Not Completed	
		f. Update Storm Drain Marking Feature	Continuously Permit Years 1-5	Completed/Not Completed	
		g. Ensure Related Water Quality Problems Are Investigated	Continuously Permit Years 1-5	g.1. Completed/Not Completed g.2. # of problems reported by jurisdiction	
#9 PE-I(4)	Volunteer Big Spring Clean				
	Conducting Annual Cleanup Event (Big Spring Clean).	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 86487, 96488 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Plan and Conduct Annual Stream Cleanup	Continuously Permit Years 1-5	c.1. Completed/Not Completed c.2. Combined with #13 PE-I(16) # of events # of sites for Big Spring Clean # of volunteers lbs. of trash # of problems reported	
#10 VM-CO	Volunteer Monitoring				
	Implementing volunteer monitoring program that involves the monitoring of stream and lake conditions by volunteers.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 86500, 96472 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs – Review	Continuously Permit Years 1-5	Completed/Not Completed	

Table 3: BMP Summary Table for the Public Involvement and Participation Program

Public Involvement & Participation (Permit Ref. Part II Section C; Part III Sections A,B,C,D; Part IV Sections B,F): Developing and implementing a program to provide opportunities for the public, including major economic and ethnic groups, to participate in efforts to protect and restore surface water quality. (Note: SOPs are the same for Phases I and II. Documentation for revising these SOPs and performing training is contained under the Phase I program element.)

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
		SOPs annually and revise as necessary			
		d. Conduct Daily Operations of Program	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # of volunteers per assessment by jurisdiction	
		e. Update Volunteer Database	Continuously Permit Years 1-5	Completed/Not Completed	
		f. Ensure Related Water Quality Problems Are Investigated	Continuously Permit Years 1-5	f.1. Completed/Not Completed f.2. # of problems reported	
#11 PE-I(13)	Educate Media Campaign				
	Developing and implementing the Public Involvement Media Campaign.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 86475, 96468 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Develop Public Involvement Volunteer Education Campaign	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Implement Public Involvement Volunteer Education Campaign	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # of social media ads and total # of impressions (these numbers include Phase I and Phase II)	
#12 PE-I(14)	Volunteer Recognition				
	Performing activities to recognize and promote volunteers.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 86476, 96481 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	

Table 3: BMP Summary Table for the Public Involvement and Participation Program

Public Involvement & Participation (Permit Ref. Part II Section C; Part III Sections A,B,C,D; Part IV Sections B,F): Developing and implementing a program to provide opportunities for the public, including major economic and ethnic groups, to participate in efforts to protect and restore surface water quality. (Note: SOPs are the same for Phases I and II. Documentation for revising these SOPs and performing training is contained under the Phase I program element.)

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
		c. Implement Volunteer Recognition Activities	Continuously Permit Years 1-5	c.1. Completed/Not Completed c.2. # of recognition activities	
#13 PE-I(16)	Creek Week				
	Performing annual Creek Week Events.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 86478, 96490 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Implement Creek Week Events	Continuously Permit Years 1-5	c.1. Completed/Not Completed c.2. Combined with #9 (PE-I(4) # of events # of volunteers lbs. of trash # of problems reported	
#14 PI-6	Evaluate Public Involvement Program				
	Evaluating the effectiveness of the Public Involvement & Participation Program.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 86492, 96461 Attachment #: 2
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Discuss and Facilitate Work Plan Changes	c. Continuously Permit Years 1-5	Completed/Not Completed	
		d. Implement Recommendations for Improvement	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. List improvements implemented	

Section 6: Illicit Discharge Detection and Elimination Program

6.1 Program Overview

CMSWS has developed, implemented, and enforced an Illicit Discharge Detection and Elimination (IDDE) Program in Mecklenburg County's Phase II jurisdictions/entities. The Program includes 10 separate BMPs and 51 Measurable Goals as described in Table 4 below. Program activities are administered by an Environmental Supervisor working in cooperation with an Environmental Manager and multiple key staff with CMSWS's Water Quality Program. The goal of the IDDE Program is to detect and eliminate illicit discharges into the MS4, which are defined in 40 CFR 123.26(b)(2) as discharges that are not composed entirely of storm water except discharges pursuant to a NPDES Permit (other than the NPDES Permit for discharges from the municipal separate storm sewer) and discharges resulting from firefighting activities as well as incidental non-stormwater discharges or flows that are not significant contributors of pollutants.

6.2 Status of the Implementation of the Storm Water Plan

Table 4 describes in Column A the BMPs identified in the Storm Water Plan for the Illicit Discharge Detection and Elimination (IDDE) Program. The specific actions (i.e., Measurable Goals) undertaken for implementation of these BMPs are described in Column B with the schedule provided in Column C. Column D includes the Annual Reporting Metrics. Column E indicates the Annual Reporting Status, including whether the Measurable Goals were completed, and Permit compliance achieved as well as the Activity Report number from our Cityworks database that includes detailed documentation of completion and the Attachment # that contains the data and information generated, if applicable.

Table 4: BMP Summary Table for the IDDE Program

Illicit Discharge Detection and Elimination (IDDE) (Permit Ref. Part II Section D; Part III Sections A,B,C,D; Part IV Sections B,F): Develop and implement a program to detect and eliminate illicit discharges to the MS4. (Note: The IDDE Manual and SOPs are the same for Phases I and II. Documentation for revising these documents and performing training is contained under the Phase I program element.)

BMP # & Work Plan Code	A	B	C	D	E
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
#15 ID-1	Storm Sewer System Mapping				
	Maintaining a current map showing major outfalls and receiving streams.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 88119, 96504 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs – Review SOPs annually and revise as necessary	Continuously Permit Years 1-5	Completed/Not Completed	

Table 4: BMP Summary Table for the IDDE Program

Illicit Discharge Detection and Elimination (IDDE) (Permit Ref. Part II Section D; Part III Sections A,B,C,D; Part IV Sections B,F): Develop and implement a program to detect and eliminate illicit discharges to the MS4. (Note: The IDDE Manual and SOPs are the same for Phases I and II. Documentation for revising these documents and performing training is contained under the Phase I program element.)

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
		d. Maintain a current map showing major outfalls and receiving streams	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2.# of outfalls by type (regular, major, and industrial) by jurisdiction	
#16 ID-2	Outfall Inspections & Screening for Non-Stormwater Flows				
	Conducting field investigations for identifying dry weather flows to the storm sewer system including sampling and elimination of identified pollution sources.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87875, 96521 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs – Review SOPs annually and revise as necessary	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Develop and Implement QA/QC Procedures	Continuously Permit Years 1-5	Completed/Not Completed	
		e. Assess and Eliminate Problems in Areas with High Potential for Illicit Discharges	Continuously Permit Years 1-5	e.1. Completed/Not Completed e.2. # outfall inspections # problems detected # dry weather flows sampled under ID-6, ID-8, and ID-9 by jurisdiction	
#17 ID-3	NOVs & Enforcement - Maintain an IDDE Program				
	Maintaining a written IDDE Program, adequate legal authorities, and written procedures for conducting investigations of illicit discharges. and enforcing the Surface Water Pollution Control Ordinances in the Phase II jurisdictions to eliminate the	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87876, 96522 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs – Review SOPs annually and revise as necessary	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Train CMSWS Staff	Continuously Permit Years 1-5	d.1. Completed/Not Completed	

Table 4: BMP Summary Table for the IDDE Program					
Illicit Discharge Detection and Elimination (IDDE) (Permit Ref. Part II Section D; Part III Sections A,B,C,D; Part IV Sections B,F): Develop and implement a program to detect and eliminate illicit discharges to the MS4. (Note: The IDDE Manual and SOPs are the same for Phases I and II. Documentation for revising these documents and performing training is contained under the Phase I program element.)					
BMP # & Work Plan Code	**A**	**B**	**C**	**D**	**E**
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
	discharge of pollutants to storm sewers and surface waters.			d.2. Combined with #20 ID-6 # staff trained on program elements ID-6 and ID-9.	
		e. Prepare and Issue NOVs	Continuously Permit Years 1-5	e.1. Completed/Not Completed e.2. Combined with #19 ID-6 # service requests by jurisdiction # emergency responses by jurisdiction # NOVs issued by jurisdiction # repeat NOVs by jurisdiction # NOVs issued by ordinance violation type by jurisdiction # NOVs issued by discharge material type. # penalties issued by jurisdiction # and type of pollution sources observed by jurisdiction # and type of materials discharged by jurisdiction	
#18 ID-4.1 ID-4.3 ID-4.4 ID-4.7-CO ID-4.10 IC-S(1.6) (CMANN) QA/QC	Water Quality Monitoring Program				
	Maintaining a monitoring program to assess water quality conditions for identification and elimination of illicit discharges and other pollution sources.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved ID-4.1 AR#: 87571, 100198 Attachment #: 1, 4, 5 ID-4.3 AR#: 87984, 100178 Attachment #: 1 ID-4.4
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs – Review SOPs annually and revise as necessary	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Conduct Monitoring Activities	Continuously Permit Years 1-5	Completed/Not Completed	

Table 4: BMP Summary Table for the IDDE Program

Illicit Discharge Detection and Elimination (IDDE) (Permit Ref. Part II Section D; Part III Sections A,B,C,D; Part IV Sections B,F): Develop and implement a program to detect and eliminate illicit discharges to the MS4. (Note: The IDDE Manual and SOPs are the same for Phases I and II. Documentation for revising these documents and performing training is contained under the Phase I program element.)

BMP # & Work Plan Code	A	B	C	D	E
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
		e. Review Data for Exceedances	Continuously Permit Years 1-5	e.1. Completed/Not Completed e.2. # of CMANN data points collected by watershed # of exceedance of State standards by jurisdiction # problems detected e.3. Summary of findings from macroinvertebrate sampling by jurisdiction e.4. Summary of findings from electrofishing efforts. e.5. Summary of findings from FIM sampling efforts by jurisdiction	AR#: 88360, 100146 Attachment #: 1 ID-4.7-CO AR#: 87878, 96523 ID-4.10 AR#: 88132, 100170 Attachment #: 1 IC-S(1.6) AR#: 87793, 97296
		f. Conduct Follow-Up Actions	Continuously Permit Years 1-5	Completed/Not Completed	
#19 ID-5	Pollution Prevention Education				
	Developing and implementing a public outreach program to inform public employees, businesses and the general public of illicit discharges and improper waste disposal and how they threaten the environment as well as provide instructions concerning proper reporting.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 86467, 96473 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Ensure Messages Inform Citizens	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Review 311 Keywords	Continuously Permit Years 1-5	Completed/Not Completed	
		e. Conduct Presentations Regarding Illicit Discharges and Improper Waste Disposal	Continuously Permit Years 1-5	Completed/Not Completed	
		f. Ensure Co-permittees and County Departments are Trained	Once per permit term	f.1. Completed/Not Completed f.2. # of staff trained	
#20 ID-6	Follow up Inspections and Responding to Citizen Requests and Emergencies				
	Responding to citizen requests for service and	a. Annual Report – Document completion of Work	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved

Table 4: BMP Summary Table for the IDDE Program

Illicit Discharge Detection and Elimination (IDDE) (Permit Ref. Part II Section D; Part III Sections A,B,C,D; Part IV Sections B,F): Develop and implement a program to detect and eliminate illicit discharges to the MS4. (Note: The IDDE Manual and SOPs are the same for Phases I and II. Documentation for revising these documents and performing training is contained under the Phase I program element.)

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
	emergency situations as well as conduct follow up inspections as necessary to identify and eliminate pollution problems.	Plan program element			AR#: 87877, 96525 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs – Review SOPs annually and revise as necessary	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Maintain Roster for Emergency Response Program	Continuously Permit Years 1-5	Completed/Not Completed	
		e. Receive, Respond, and Investigate Citizen Requests for Service	Continuously Permit Years 1-5	e.1. Completed/Not Completed e.2. Combined with #16 ID-6 # staff trained on program elements ID-6 and ID-9 # service requests by jurisdiction # emergency responses by jurisdiction # NOVs issued by jurisdiction # repeat NOVs by jurisdiction # NOVs issued by ordinance violation type by jurisdiction # NOVs issued by discharge material type # penalties issued by jurisdiction # and type of pollution sources observed by jurisdiction # and type of materials discharged by jurisdiction	
#21 ID-8	Stream Walk/Outfall Inventory & Inspection/Dry Weather Flow Analysis				
	Inspecting creeks for the purpose of identifying and eliminating illicit discharges and collecting outfall	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved
		b. Annual Assessment – Document status of	Continuously Permit Years 1-5	Completed/Not Completed	AR#: 87923, 100094

Table 4: BMP Summary Table for the IDDE Program

Illicit Discharge Detection and Elimination (IDDE) (Permit Ref. Part II Section D; Part III Sections A,B,C,D; Part IV Sections B,F): Develop and implement a program to detect and eliminate illicit discharges to the MS4. (Note: The IDDE Manual and SOPs are the same for Phases I and II. Documentation for revising these documents and performing training is contained under the Phase I program element.)

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
	and stream channel data as well as conducting dry weather flow field observations in accordance with written procedures.	implementation of the Storm Water Plan			Attachment #: 1
		c. Revise and Implement Program Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Review and Revise SOPs – Review SOPs annually and revise as necessary	Continuously Permit Years 1-5	Completed/Not Completed	
		e. Train CMSWS Staff	Continuously Permit Years 1-5	e.1. Completed/Not Completed e.2. # staff trained	
		f. Conduct Assessments, Inventory, Inspections, and Monitoring	Continuously Permit Years 1-5	f.1. Completed/Not Completed f.2. # miles walked by jurisdiction # new outfalls collected by jurisdiction # existing outfalls inspected by jurisdiction # total outfalls inspected by jurisdiction # DWF Samples collected by jurisdiction	
		g. Review Data for Exceedances	Continuously Permit Years 1-5	g.1. Completed/Not Completed g.2. # and type exceedances by jurisdictions	
#22 ID-9	Illicit Discharge Elimination Program (IDEP)				
	Investigating select locations on a regular, recurring schedule for the identification and elimination of illicit discharges and other pollution problems.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87879, 96524 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs – Review SOPs annually and revise as necessary	Continuously Permit Years 1-5	Completed/Not Completed	

Table 4: BMP Summary Table for the IDDE Program

Illicit Discharge Detection and Elimination (IDDE) (Permit Ref. Part II Section D; Part III Sections A,B,C,D; Part IV Sections B,F): Develop and implement a program to detect and eliminate illicit discharges to the MS4. (Note: The IDDE Manual and SOPs are the same for Phases I and II. Documentation for revising these documents and performing training is contained under the Phase I program element.)

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
		d. Field Validate Outfall Data & Input Additional Attributes	Continuously Permit Years 1-5	e.1. Completed/Not Completed e.2. # inspections conducted by jurisdiction e.3. # violations observed by jurisdiction	
#23 ID-U	Used Oil Inspection				
	Conducting inspections of vehicle maintenance facilities to prevent the discharge of pollutants.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87015, 96497 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs – Review SOPs annually and revise as necessary	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Complete, Prepare, and Submit Inspection Reports	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # of inspections completed by jurisdiction d.3. # of violations observed	
		e. Maintain Database	Continuously Permit Years 1-5	Completed/Not Completed	
#24 ID-10	Evaluate Effectiveness of the IDDE Program				
	Evaluating the effectiveness of the IDDE Program.	a. Annual Report	a. Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 88120, 96505 Attachment #: 2
		b. Annual Assessment	b. Continuously Permit Years 1-5	Completed/Not Completed	
		c. Discuss and Facilitate Work Plan Changes	c. Continuously Permit Years 1-5	Completed/Not Completed	
		d. Implement improvements in the next fiscal year	d. Continuously Permit Years 1-5	c.1. Completed/Not Completed c.2. List of improvements implemented	

Section 7: Construction Site Storm Water Runoff Control Program

7.1 Program Overview

Construction Site Runoff Control Programs have been developed and are currently being implemented for addressing the discharge of sediment and other pollutants from construction sites in Mecklenburg County 's Phase II jurisdictions that disturb one or more acres of land surface and those activities less than one acre that are part of a larger common plan of development as authorized under the Sediment Pollution Control Act of 1973. These are delegated programs under NCGS 113A-60. The Program includes 3 separate BMPs and 12 Measurable Goals as described in Table 5 below. Program activities are administered by an Environmental Supervisor working in cooperation with an Environmental Manager and multiple key staff with CMSWS's Permitting and Compliance Program. In November 2019, the Town of Huntersville received delegated authority from the State to administer a local erosion control program in their jurisdiction. The Town of Huntersville coordinates with the County in the completion of the activities associated with the Construction Site Erosion Control Program described in this Section. Kevin Fox, Public Works Director, serves as the responsible party for compliance with the Permit requirements for the Construction Site Storm Water Runoff Control Program in the Town of Huntersville. His contact information is as follows: 704-766-2320 and kfox@huntersville.org.

7.2 Status of the Implementation of the Storm Water Plan

Table 5 describes in Column A the BMPs identified in the Storm Water Plan for the Construction Site Storm Water Runoff Control Program. The specific actions (i.e., Measurable Goals) undertaken for implementation of these BMPs are described in Column B with the schedule provided in Column C. Column D includes the Annual Reporting Metrics. Column E indicates the Annual Reporting Status, including whether the Measurable Goals were completed, and Permit compliance achieved as well as the Activity Report number from our Cityworks database that includes detailed documentation of completion and the Attachment # that contains the data and information generated, if applicable.

Table 5: BMP Summary Table for the Construction Site Storm Water Control Program

Construction Site Runoff Control Program (Permit Ref. Part II Section E; Part III Sections A,B,C,D; Part IV Sections B,F): Enforce erosion and sedimentation control ordinances by permitting and controlling development activities disturbing one or more acres of land surface and those activities less than one acre that are part of a larger common plan of development as authorized under the Sediment Pollution Control Act of 1973.

BMP # & Work Plan Code	A	B	C	D	E
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
#25 CS-1	Enforce Erosion Control Ordinances				
	Enforcing erosion and sedimentation control ordinances.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved
		b. Annual Assessment – Document status of	Continuously Permit Years 1-5	Completed/Not Completed	AR#: 87393, 100012

Table 5: BMP Summary Table for the Construction Site Storm Water Control Program

Construction Site Runoff Control Program (Permit Ref. Part II Section E; Part III Sections A,B,C,D; Part IV Sections B,F): Enforce erosion and sedimentation control ordinances by permitting and controlling development activities disturbing one or more acres of land surface and those activities less than one acre that are part of a larger common plan of development as authorized under the Sediment Pollution Control Act of 1973.

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
		implementation of the Storm Water Plan			Attachment #: 1
		c. Review and Revise SOPs	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Conduct Inspections	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # inspections conducted by jurisdiction	
		e. Prepare and issue NOVs and Initiate Enforcement Actions	Continuously Permit Years 1-5	e.1. Completed/Not Completed e.2. # NOVs issued by jurisdiction e.3. # repeat NOVs issued by jurisdiction e.4. # penalties assessed by jurisdiction	
#26 CS-2	Erosion Control Education				
	Developing and implementing a program to educate those engaging in land disturbing activities regarding the applicable erosion control requirements and regulations.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87395, 100014 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Distribute Educational Materials	Continuously Permit Years 1-5	c.1. Completed/Not Completed c.2. # education materials distributed by jurisdiction	
		d. Implement Charlotte-Mecklenburg Certified Site Inspector (CMCSI) Training	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # attendees	
#27 CS-3	Evaluate Effectiveness of the Erosion Control Program				
	Evaluating the effectiveness of the Erosion Control Program.	a. Annual Report	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87393, 100015 Attachment #: 2
		b. Annual Assessment	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Implement Recommendations for Improvement	Continuously Permit Years 1-5	c.1. Completed/Not Completed c.2. List of improvements implemented	

Section 8: Post-Construction Site Runoff Control Program

8.1 Program Overview

A Post-Construction Site Runoff Control Program has been developed and is currently being implemented for addressing post-construction stormwater runoff from new development and redevelopment projects in Mecklenburg County's Phase II jurisdictions. The Program includes four (4) separate BMPs and 17 Measurable Goals as described in Table 6 below. Program activities are administered by an Environmental Supervisor working in cooperation with an Environmental Manager and multiple key staff with CMSWS's Water Quality Program except for in the Town of Huntersville and its ETJ where, effective July 1, 2020, Town staff are responsible for plan reviews and issuing land development Permits as well as conducting inspections to confirm project completion in compliance with Permit requirements.

8.2 Status of the Implementation of the Storm Water Plan

Table 6 describes in Column A the BMPs identified in the Storm Water Plan for the Post-Construction Site Runoff Control Program. The specific actions (i.e., Measurable Goals) undertaken for implementation of these BMPs are described in Column B with the schedule provided in Column C. Column D includes the Annual Reporting Metrics. Column E indicates the Annual Reporting Status, including whether the Measurable Goals were completed, and Permit compliance achieved as well as the Activity Report number from our Cityworks database that includes detailed documentation of completion and the Attachment # that contains the data and information generated, if applicable.

Table 6: BMP Summary Table for the Post-Construction Site Runoff Control Program

Post-Construction Site Runoff Control Program (Permit Ref. Part II Section F; Part III Sections A,B,C,D; Part IV Sections B,F):Implement and enforce a program to address storm water runoff from new development and redevelopment projects, including public transportation maintained by the permittee, that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the small MS4.

BMP # & Work Plan Code	A	B	C	D		E
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric (Yes or No)		Annual Reporting Status
				Completed	Compliant	
#28 PC-1	Implement Post-Construction Ordinances					
	Developing, implementing, and enforcing ordinances that will minimize negative water quality impacts to surface waters from post-construction discharges.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed		Completed & Permit Compliance Achieved AR#: 87382, 100017 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed		
		c. Ensure Effective Implementation	Continuously Permit Years 1-5	Completed/Not Completed		
		d. Provide Interpretations of	Continuously Permit Years 1-5	d.1. Completed/Not Completed		

Table 6: BMP Summary Table for the Post-Construction Site Runoff Control Program

Post-Construction Site Runoff Control Program (Permit Ref. Part II Section F; Part III Sections A,B,C,D; Part IV Sections B,F):Implement and enforce a program to address storm water runoff from new development and redevelopment projects, including public transportation maintained by the permittee, that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the small MS4.

BMP # & Work Plan Code	A	B	C	D		E
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric (Yes or No)		Annual Reporting Status
				Completed	Compliant	
		Ordinance Requirements		d.2. # interpretations by jurisdiction		
#29 PC-2	Post-Construction Ordinance Inspections					
	Conducting site inspections of stormwater controls installed for compliance with ordinance requirements.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed		Completed & Permit Compliance Achieved AR#: 87385, 100018 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed		
		c. Update Manual	Continuously Permit Years 1-5	Completed/Not Completed		
		d. Complete Inspections	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # and type of inspections conducted by jurisdiction		
		e. Prepare and issue NOVs and Initiate Enforcement Actions	Continuously Permit Years 1-5	e.1. Completed/Not Completed e.2. # NOVs issued by jurisdiction e.3. # repeat NOVs issued by jurisdiction e.4. # penalties assessed by jurisdiction		
#30 PC-3	Post-Construction Ordinance Education					
	Implementing a program to educate the development community regarding applicable post-construction requirements and regulations.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed		Completed & Permit Compliance Achieved AR#: 87384, 100019 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed		
		c. Develop Post-Construction Ordinance Training	Continuously Permit Years 1-5	Completed/Not Completed		
		d. Conduct Training	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # attendees		
#31 PC-5	Evaluate Effectiveness of the Post-Construction Controls Program					
	Evaluating the effectiveness of the	a. Annual Report	Continuously Permit Years 1-5	Completed/Not Completed		

Table 6: BMP Summary Table for the Post-Construction Site Runoff Control Program

Post-Construction Site Runoff Control Program (Permit Ref. Part II Section F; Part III Sections A,B,C,D; Part IV Sections B,F):Implement and enforce a program to address storm water runoff from new development and redevelopment projects, including public transportation maintained by the permittee, that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the small MS4.

BMP # & Work Plan Code	A	B	C	D		E
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric (Yes or No)		Annual Reporting Status
				Completed	Compliant	
	Post-Construction Controls Program.	b. Annual Assessment	Continuously Permit Years 1-5	Completed/Not Completed		Completed & Permit Compliance Achieved AR#: 87387, 100020 Attachment #: 2
		c. Discuss and Facilitate Work Plan Changes	Continuously Permit Years 1-5	Completed/Not Completed		
		d. Implement improvements in the next fiscal year.	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. List of improvements		

Section 9: Pollution Prevention/Good Housekeeping for Municipal Operations

9.1 Program Overview

CMSWS has developed and implemented a Pollution Prevention/Good Housekeeping Program for municipal facilities and operations. The Program includes four (4) separate BMPs and 20 Measurable Goals as described in Table 7 below. Program activities are administered by an Environmental Supervisor working in cooperation with an Environmental Manager and multiple key staff with CMSWS's Water Quality Program. The goal of the Pollution Prevention/Good Housekeeping Program is to reduce pollutants in storm water runoff from municipal operations.

9.2 Status of the Implementation of the Storm Water Plan

Table 7 describes in Column A the BMPs identified in the Storm Water Plan for the Pollution Prevention and Good Housekeeping Program. The specific actions (i.e., Measurable Goals) undertaken for implementation of these BMPs are described in Column B with the schedule provided in Column C. Column D includes the Annual Reporting Metrics. Column E indicates the Annual Reporting Status, including whether the Measurable Goals were completed, and Permit compliance achieved as well as the Activity Report number from our Cityworks database that includes detailed documentation of completion and the Attachment # that contains the data and information generated, if applicable.

Table 7: BMP Summary Table for the Pollution Prevention/Good Housekeeping Program

Pollution Prevention & Good Housekeeping (Permit Ref. Part II Section G; Part III Sections A,B,C,D; Part IV Sections B,F): Implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. Provide employee training to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance.

BMP # & Work Plan Code	A	B	C	D	E
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
#32 PP-1 PP-1 CMS PP-1 CPCC	Employee Training				
	Implementing a training program for employees involved in implementing pollution prevention and good housekeeping practices.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved PP-1 AR#: 86494, 96477 Attachment #: 1 PP-1 CMS AR#: 86494, 96478 Attachment #: 1 PP-1 CPCC AR#: 86495, 96479 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Training Program – Review and update training program for employees at facilities involved in municipal operations	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Provide Training Materials to Towns, County Facilities, CMS, and CPCC	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # municipal employees trained by jurisdiction	

Table 7: BMP Summary Table for the Pollution Prevention/Good Housekeeping Program

Pollution Prevention & Good Housekeeping (Permit Ref. Part II Section G; Part III Sections A,B,C,D; Part IV Sections B,F): Implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. Provide employee training to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance.

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
#33 PP-2 PP-2 CMS PP-2 CPCC	Inspections				
	Implementing inspection program for municipal facilities.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved PP-2 AR#: 87024, 96494 Attachment #: 1 PP-2 CMS AR#: 87022, 96495 Attachment #: 1 PP-2 CPCC AR#: 87023, 96496 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs – Review SOPs annually and revise as necessary	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Train CMSWS Staff	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # CMSWS staff trained	
		e. Complete, Prepare, and Submit Inspection Reports	Continuously Permit Years 1-5	e.1. Completed/Not Completed e.2. # facility inspections completed per jurisdiction e.3. # and type of recommendations made by jurisdiction e.4. # and type of deficiencies observed by jurisdiction	
		f. Develop O&M Plans	Continuously Permit Years 1-5	Completed/Not Completed	
#34 PP-5	Municipal Facility Inventory				
	Maintaining a current inventory of co-permittee facilities and operations with a significant potential for generating pollution.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87046, 96697 Attachment #: 1
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Review and Revise SOPs	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Update Municipal Inventory	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. # properties identified per jurisdiction/entity. d.3. # properties with significant potential to pollute added to the Pollution Prevention Program (PP-2)	

Table 7: BMP Summary Table for the Pollution Prevention/Good Housekeeping Program					
Pollution Prevention & Good Housekeeping (Permit Ref. Part II Section G; Part III Sections A,B,C,D; Part IV Sections B,F): Implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. Provide employee training to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance.					
BMP # & Work Plan Code	**A**	**B**	**C**	**D**	**E**
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
		e. Notify Co-Permittees of Changes	Continuously Permit Years 1-5	Completed/Not Completed	
#35 PP-9	Evaluate Effectiveness of the Pollution Prevention/ Good Housekeeping Program				
	Evaluating the effectiveness of the Pollution Prevention/ Good Housekeeping Program.	a. Annual Report – Document completion of Work Plan program element	Continuously Permit Years 1-5	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87019, 96498 Attachment #: 2
		b. Annual Assessment – Verify compliance with the Storm Water Plan and Permit and identify improvements from this year's assessment	Continuously Permit Years 1-5	Completed/Not Completed	
		c. Discuss and Facilitate Work Plan Changes	Continuously Permit Years 1-5	Completed/Not Completed	
		d. Evaluate Effectiveness of O&M Plans	Continuously Permit Years 1-5	d.1. Completed/Not Completed d.2. Cost vs. estimated quantity of pollutants removed from municipally owned streets, roads, and public parking lots compared to acceptable pollutant removal range of under or between $3 and $5 per pound	
		e. Implement Recommendations for Improvement	Continuously Permit Years 1-5	e.1. Completed/Not Completed e.2. List of improvements implemented	

Section 10: Total Maximum Daily Loads (TMDLs)

10.1 Program Overview

CMSWS has developed and implemented a program for addressing non-point source pollutant loading associated with the Total Maximum Daily Loads (TMDLs) approved by EPA for the receiving waters of the Phase II MS4 storm water discharges and/or waters downstream of these discharges. The Program includes three (3) separate BMPs and 21 Measurable Goals as described in Table 8 below. Program activities are administered by an Environmental Manager and multiple key staff with CMSWS's Water Quality Program. The goal of the TMDL Program is to reduce non-point source pollutant loading to the receiving stream to the maximum extent practicable.

10.2 Status of the Implementation of the Storm Water Plan

Table 8 describes in Column A the BMPs identified in the Storm Water Plan for the TMDL Compliance Program. The specific actions (i.e., Measurable Goals) undertaken for implementation of these BMPs are described in Column B with the schedule provided in Column C. Column D includes the Annual Reporting Metrics. Column E indicates the Annual Reporting Status, including whether the Measurable Goals were completed, and Permit compliance achieved as well as the Activity Report number from our Cityworks database that includes detailed documentation of completion and the Attachment # that contains the data and information generated. Attachment 6 provided at the end of this report includes a summary of activities performed in TMDL watersheds in the Phase II jurisdictions and provides an assessment of whether additional structural and/or non-structural BMPs are necessary to address impaired waters. Attachment 6 also includes a brief explanation as to how the programs, controls, partnerships, projects and strategies address impaired waters as required by Section H # 4 of NPDES Permit # NCS000395.

Table 8: BMP Summary Table for the TMDL Program

Total Maximum Daily Load (TMDL) Program (Permit Ref. Section H; Part III Sections A,B,C,D; Part IV Sections B,F): Implement a program to reduce levels of the pollutant of concern in accordance with approved Waste Load Allocation (WLAs) assigned to stormwater in an approved TMDL.

BMP # & Work Plan Code	A	B	C	D	E
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
#36 IW-1	Evaluate Impaired Waters				
	Identifying those impaired waters with an approved TMDL in Mecklenburg County that have a waste load allocation assigned to stormwater.	a. Annual Report – Document completion of Work Plan program element	Annually beginning July 1	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87378, 97297 Attachment #: 6
		b. Annual Assessment	Annually beginning July 1	Completed/Not Completed	
		c. Review TMDLs Approved by EPA	Annually beginning July 1	c.1. Completed/Not Completed c.2. # and description of new TMDLs approved	

Table 8: BMP Summary Table for the TMDL Program

Total Maximum Daily Load (TMDL) Program (Permit Ref. Section H; Part III Sections A,B,C,D; Part IV Sections B,F): Implement a program to reduce levels of the pollutant of concern in accordance with approved Waste Load Allocation (WLAs) assigned to stormwater in an approved TMDL.

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
		d. Review Approved and Draft Versions of N.C. Integrated Report	Annually beginning July 1	d.1. Completed/Not Completed d.2. # and description of changes	
#37 IW-2	Water Quality Recovery Plans for TMDLs				
	Developing and implementing Water Quality Recovery Plans (WQRPs) for TMDL waters with a waste load allocation assigned to stormwater.	a. Annual Report – Document completion of Work Plan program element	Annually beginning July 1	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87379, 97302 Attachment #: 6
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Annually beginning July 1	Completed/Not Completed	
		c. Evaluate Land Use and Development	Annually beginning July 1	c.1. Completed/Not Completed c.2. # and type changes	
		d. Review BMPs or SCMs to Reduce Nonpoint Source Pollution	Annually beginning July 1	d.1. Completed/Not Completed d.2. # and type changes	
		e. Determine Location of Failed Septic Systems	Annually beginning July 1	e.1. Completed/Not Completed e.2. # failing systems	
		f. Confirm Follow Up Activities Are Conducted	Annually beginning July 1	f.1. Completed/Not Completed f.2. # repairs completed	
		g. Inspect Major Outfalls	Annually beginning July 1	g.1. Completed/Not Completed g.2. # inspections	
		h. Conduct Follow Up Activities	Annually beginning July 1	f.1. Completed/Not Completed f.2. # problems corrected	
		i. Analyze Monitoring Data	Annually beginning July 1	Completed/Not Completed	
		j. Identify Additional Measures to Achieve TMDL WLA	Annually beginning July 1	j.1. Completed/Not Completed j.2. # and type additional measures	
		k. Implement Water Quality Recovery Plans	Annually beginning July 1	Completed/Not Completed	
		l. Inspect Privately Owned Lift Stations	Annually beginning July 1	Completed/Not Completed # inspections	
		m. Assess for Negative Water Quality Impacts	Annually beginning July 1	m.1. Completed/Not Completed m.2. # problems detected/corrected	

Table 8: BMP Summary Table for the TMDL Program

Total Maximum Daily Load (TMDL) Program (Permit Ref. Section H; Part III Sections A,B,C,D; Part IV Sections B,F): Implement a program to reduce levels of the pollutant of concern in accordance with approved Waste Load Allocation (WLAs) assigned to stormwater in an approved TMDL.

BMP # & Work Plan Code	A	B	C	D	E
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
#38 IW-4	Assess Effectiveness of Water Quality Recovery Plans for TMDLs				
	Assessing the effectiveness of BMPs at addressing TMDL waters.	a. Annual Report	Annually beginning July 1	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87380. 97303 Attachment #: 6
		b. Annual Assessment	Annually beginning July 1	Completed/Not Completed	
		c. Discuss and Facilitate Work Plan Changes	c. Continuously Permit Years 1-5	Completed/Not Completed	
		d. Implement improvements in the next fiscal year.	Annually beginning July 1	d.1. Completed/Not Completed d.2. List of improvements	

Section 11: Assessment of Storm Water Plan and Overall Program Effectiveness

During FY2025, the permittee has satisfactorily implemented the 38 BMPs and fulfilled the 190 Measurable Goals specified in the Storm Water Plan that has been developed and implemented for compliance with Permit No. NCS000395 as described in Tables 1 through 8 above. The other provisions of the Permit have also been satisfactorily fulfilled; therefore, compliance with the Permit has been achieved. The permittee further finds that the implementation of the Storm Water Plan as well as the individual BMPs contained in the Plan has resulted in the satisfactory completion of Work Plan activities and the Measure of Success as shown in Table 9. The implementation of the Program modifications described in Attachment 3 and briefly summarized in Section 12.2 below are meant to improve the effectiveness of Program activities in FY2026.

Table 9: Measure of Success Summary for FY2025

#	Measures of Success	FY2025 Target	FY2025 Results	Target Met (Yes or No)
1	Complete Documentation – Document Storm Water Program activities that demonstrate successful fulfillment of BMPs fixed at 100%.	100% of Activities Documented	100% of Activities Documented	Yes

Section 12: Program Enhancements

Attachment 2 describes the status of the implementation of planned modifications to the program in FY2025 resulting from the annual assessment completed for FY2024. Attachment 3 describes the modifications planned for FY26 as a result of this year's annual assessment. The purpose of these modifications is to improve the effectiveness and efficiency of program activities for protecting and restoring surface water quality and complying with Permit requirements.

12.1 Status of Implementation of Program Modifications for FY2025

For FY2025, a total of 20 program modifications were proposed for the purpose of improving the effectiveness and efficiency of Permit compliance activities. These modifications are described in Attachment 2, including the justification for the change, the desired result, assigned program element as described in the annual Work Plan, responsible staff, and schedule. The status of the implementation of these modifications will be described in the FY2026 annual report and assessment.

All but two (2) or 90% of these modifications were satisfactorily completed as described in Attachment 2. The two (2) not completed are long-term goals, involve third-party participation, and are in progress.

12.2 Program Modifications Identified for Implementation in FY2026

For FY2026, a total of 7 program modifications are proposed for the purpose of improving the effectiveness and efficiency of Permit compliance activities. These modifications are described in Attachment 3, including the justification for the change, the desired result, assigned program element as described in the annual Work Plan, responsible staff, and schedule. The status of the implementation of these modifications will be described in the FY2026 annual report and assessment.

Attachment 1: Data by Jurisdiction

#1 (PD-1) Quarterly Reports/Statements	Quarterly Reports/Statements									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Q1 Date Sent	12/9/2024	12/9/2024	12/9/2024	12/9/2024	12/9/2024	12/9/2024	12/9/2024	12/9/2024	12/9/2024	**9**
Q2 Date Sent	2/17/2025	2/17/2025	2/17/2025	2/17/2025	2/17/2025	2/17/2025	2/17/2025	2/17/2025	2/17/2025	**9**
Q3 Date Sent	5/30/2025	5/30/2025	5/30/2025	5/30/2025	5/30/2025	5/30/2025	5/30/2025	5/30/2025	5/30/2025	**9**
Q4 Date Sent	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	**9**

#3 (PE-10) School Presentations	School Presentations									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Total Presentations	7	3	28	11	N/A	4	11	N/A	N/A	64
Total Attendees	130	70	695	292	N/A	132	279	N/A	N/A	1598

#3 (PE-10) Public Presentations	Public Presentations Conducted									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Total Presentations	1	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	**2**
Total Attendees	7	N/A	N/A	15	N/A	N/A	N/A	N/A	N/A	**22**

#3 (PE-10) Educational Handouts	Educational Handouts Distributed During Service Requests and Other Inspections									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Total Handouts Distributed	3	N/A	15	49	10	6	19	N/A	N/A	**102**

#3 (PE-10) Public Events	Events Attended									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Total Events	1	1	2	1	N/A	1	1	N/A	N/A	**7**
Total Attendees	600	98	251	163	N/A	500	500	N/A	N/A	**2112**
Educational Information Displayed (Yes/No)	Yes	Yes	Yes	Yes	N/A	Yes	Yes	N/A	N/A	

#6 (PI-1) Phase II Public Meetings	Phase II Public Meetings with SWAC									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Total Number of Meetings	N/A	N/A	N/A	N/A	10	N/A	N/A	N/A	N/A	**10**
Total Number Attendees	N/A	N/A	N/A	N/A	92	N/A	N/A	N/A	N/A	**92**

#7 (PI-2) Adopt-A-Stream	Adopt-A-Stream Activities									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Volunteers	0	0	156	21	133	40	0	0	0	**350**
Pounds of Trash Removed	0	0	526	86	653	248	0	0	0	**1513**
Problems Reported	0	0	0	0	0	0	0	0	0	**0**

#8 (PI-3) Storm Drain Marking	Storm Drain Marking Activities									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Volunteers	N/A	2	38	4	N/A	N/A	N/A	N/A	N/A	**44**
Markers Applied	N/A	7	357	58	N/A	N/A	N/A	N/A	N/A	**422**
Problems Reported	N/A	0	2	0	N/A	N/A	N/A	N/A	N/A	**2**

#9 (PE-I(4)) Big Spring Clean and #13 (PE-I(16)) Creek Week	Big Spring Clean and Creek Week Activities									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Number of Events	0	0	1	1	0	0	0	0	0	**2**
Number of Sites for Big Spring Clean	0	0	1	1	0	0	0	0	0	**2**
Total Volunteers/ participants	0	0	79	105	0	0	0	0	0	**184**
Pounds of Trash Removed	0	0	1,800	2,700	0	0	0	0	0	**4,500**
Problems Reported	0	0	0	0	0	0	0	0	0	**0**

#10 (VM-CO) Volunteer Monitoring	Volunteer Monitoring Activities									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Number of Streamside Assessment Volunteers	0	1	8	0	1	0	0	N/A	N/A	**10**
Number of Streamside Snapshot Volunteers	7	1	0	0	0	0	0	N/A	N/A	**8**
Number of Streamside Chemical Volunteers	0	0	148	9	16	0	2	N/A	N/A	**175**
Problems Reported	0	0	0	0	0	0	0	0	0	**0**

#11 (PE-I(13)) Educate Media Campaign	Education Campaign (Numbers Include Phase I)									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Number of Facebook Posts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**283**
Number of Instagram Posts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**523**
Number of X Posts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**226**
Total Number of Impressions for Full Media Campaign	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**5,309,515**

#12 (PE-I(14)) Volunteer Recognition	Volunteer Recognition Activities (Numbers Include Phase I)									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Number of Volunteer Recognition Activities	N/A	N/A	N/A	N/A	19	N/A	N/A	N/A	N/A	**19**

#15 (ID-1) Stormwater Inventory	Stormwater Inventory									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Outfalls (all)	900	448	2,056	886	2,249	1,184	634	853	72	**9,282**
Major Outfalls (> 36")	53	65	284	86	216	115	53	43	5	**920**
Industrial Outfalls	44	0	50	67	139	29	80	0	0	**413**

#16 (ID-2) Outfall Inspections	Screening for Non-Stormwater Flows									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Outfalls Inspected	1	22	121	165	126	77	37	0	0	**549**
Problems Detected	1	0	2	3	2	0	4	0	0	**12**
Dry Weather Flows Sampled	0	0	0	4	0	1	0	0	0	**5**

#17 (ID-3) and #20 (ID-6) Follow Up Inspections and Responding to Citizen Request and Emergencies	Service Requests, Emergency Response, and Notices of Violations									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
SR	14	4	16	34	30	8	10	0	0	**116**
ER	0	0	2	4	4	0	0	0	0	**10**
NOVs Issued	1	0	3	10	4	0	4	0	0	**22**
Repeat NOVs Issued	0	0	0	1	2	0	1	0	0	**4**
Number of Penalties Issued	0	0	0	1	1	0	1	0	0	**3**
Number of Illicit Discharge NOVs	0	0	2	10	3	0	3	0	0	**18**
Number of Illicit Connection NOVs	0	0	0	0	0	0	0	0	0	**0**
Number of Accidental Discharge NOVs	0	0	0	0	0	0	0	0	0	**0**
Number of Improper Storage,	1	0	1	0	1	0	0	0	0	**3**
Number of Failure to	0	0	0	0	0	0	0	0	0	**0**
Number of High PAH NOVs	0	0	0	0	0	0	1	0	0	**1**
Number of Obstruction NOVs	0	0	0	0	0	0	0	0	0	**0**
Number of CMSWS Staff Trained (enter in "total" column)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**23**

#17 (ID-3) and #20 (ID-6) Follow Up Inspections and Responding to Citizen Request and Emergencies

Pollution Sources	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Accidental	1	1	1	3	5	0	3	0	0	**14**
Algae	6	0	0	0	1	0	0	0	0	**7**
Aquatic Life/Fish Kill	0	0	0	0	0	0	0	0	0	**0**
Buffer	0	0	0	0	1	0	0	0	0	**1**
Discharge/dump	3	1	6	16	10	4	5	0	0	**45**
Erosion/sediment	0	0	2	1	2	0	0	0	0	**5**
Monitoring Follow-up	0	0	0	0	0	0	0	0	0	**0**
Natural Condition	0	0	0	4	1	2	0	0	0	**7**
No Incident	4	1	7	7	10	2	0	0	0	**31**
Other	0	0	0	1	0	0	2	0	0	**3**
Unknown	0	1		2	0	0	0	0	0	**3**
Total	**14**	**4**	**16**	**34**	**30**	**8**	**10**	**0**	**0**	**116**

#17 (ID-3) and #20 (ID-6) Follow Up Inspections and Responding to Citizen Request and Emergencies

Materials Discharged	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Allowable Discharge	0	0	0	0	0	2	0	0	0	**2**
Chemical	0	0	0	0	1	0	0	0	0	**1**
Concrete	0	0	0	1	1	0	1	0	0	**3**
Cooking Oil/Grease	1	0	0	4	0	0	1	0	0	**6**
Motor Oil	2	0	0	0	0	0	0	0	0	**2**
None	10	1	4	10	13	2	1	0	0	**41**
Other	0	0	2	3	4	0	2	0	0	**11**
Paint	0	0	1	0	0	0	0	0	0	**1**
Pet Waste	0	0	0	1	0	0	0	0	0	**1**
Petroleum Fuels	0	1	3	3	3	0	1	0	0	**11**
Sediment	0	0	2	1	2	0	0	0	0	**5**
Sewage - CMU	1	1	0	1	3	1	0	0	0	**7**
Sewage - Private (commercial)	0	0	0	1	3	0	2	0	0	**6**
Sewage - Private (residential)	0	0	1	1	0	1	0	0	0	**3**
Sewage - Septic	0	0	0	0	0	1	0	0	0	**1**
Trash	0	0	1	0	0	0	0	0	0	**1**
Unknown	0	1	0	3	0	0	1	0	0	**5**
Wash Water	0	0	0	4	0	1	1	0	0	**6**
Waste Water	0	0	1	1	0	0	0	0	0	**2**
Yard Waste	0	0	1	0	0	0	0	0	0	**1**
Total	**14**	**4**	**16**	**34**	**30**	**8**	**10**	**0**	**0**	**116**

	Exceedances of NC State Standards and Local Action Levels									
#18 (ID-4.1) Fixed Interval Monitoring (FIM)	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Site State Exeeedances Metals, Fecal Coliform, Turbidity	0	MY1B 0, 2, 1	MC2 0, 1, 0	0	0	0	0	0	0	**4**
Local Action Exceedences for Lab and Field Data, Nox, TP, Temperature, SPC, pH	0	0	0	MC36 0, 1, 0, 0, 0	MY14 0, 5, 0, 0, 0	0	0	0	0	**6**
Problems Detected and	0	0	0	0	0	0	0	0	0	0

	Biological Macroinvertebrate and Habitat Assessment Monitoring									
#18 (ID-4.3) Biological Macroinvertebrate and Habitat Assessment Monitoring	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Stream Site Date EPT Taxa Richness Total Taxa Richness NCBI Bioclassification	N/A	W. Br. Rocky River MY1B 7/18/24 12 50 6.69 FAIR	McDowell Creek MC2 8/30/24 9 40 6.77 FAIR	Fourmile Creek MC40C 7/19/24 9 28 6.31 FAIR	Clarke Creek MY10 7/01/24 8 44 6.63 FAIR	Goose Creek MY9 6/13/24 12 55 6.33 GOOD-FAIR	Little Sugar Creek MC49A 9/06/24 9 25 7.17 FAIR	N/A	N/A	N/A
Stream Site Date EPT Taxa Richness Total Taxa Richness NCBI Bioclassification	N/A	N/A	Torrence Creek MC3E 8/30/24 13 48 6.68 FAIR	N/A	Duck Creek MY14 8/06/24 7 31 6.62 FAIR	N/A	Sugar Creek MC27 9/11/24 10 32 6.44 FAIR	N/A	N/A	N/A
Stream Site Date EPT Taxa Richness Total Taxa Richness NCBI Bioclassification	N/A	N/A	Gar Creek MC50 6/21/24 14 45 5.50 GOOD-FAIR	N/A	Clear Creek MY8 7/05/24 16 61 5.72 GOOD-FAIR	N/A	N/A	N/A	N/A	N/A
Stream Site Date EPT Taxa Richness Total Taxa Richness NCBI Bioclassification	N/A	N/A	N/A	N/A	McKee Creek MY7B 8/29/24 8 31 6.27 FAIR	N/A	N/A	N/A	N/A	N/A
Total Sites	N/A	1	3	1	4	1	2	N/A	N/A	**12**
Number of CMSWS Staff Trained (enter in "total" column)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**20**

	Biological Fish and Habitat Assessment Monitoring										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
#18 (ID-4.4) Fish Monitoring	**Stream** **Site** **Date** **Number of Species** **Number of Fish** **NCIBI** **Bioclassification**	N/A	N/A	McDowell Creek MC2A1 5-23-25 12 421 30 Poor	Four Mile Creek MC40C 4-9-25 12 355 46 Good-Fair	Duck Creek MY14 4-30-25 11 373 40 Fair	N/A	N/A	N/A	N/A	**N/A**
	Stream **Site** **Date** **Number of Species** **Number of Fish** **NCIBI** **Bioclassification**	N/A	N/A	Clarke Creek MY10 5-6-25 12 178 30 Poor	N/A	N/A	N/A	N/A	N/A	N/A	**N/A**
	Total Sites	N/A	N/A	**2**	**1**	**1**	N/A	N/A	N/A	N/A	**4**
	Number of CMSWS Staff Trained (enter in "total" column)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**16**

	Observations and Exceedances of NC State Standards per Parameter per Site and Number of Problems Detected										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
#18 (ID-4.10) Automated Monitoring	**Watershed** **Stream** **Site** **Turbidity: # Obs; # Exceedances** **Dissolved O_2: # Obs; # Exceedances** **pH: # Obs; # Exceedances** **Specific Conductance: # Obs** **Temperature: # Obs; # Exceedances** **# of Problems Detected**	N/A	Rocky River West Branch Rocky River MY1B 7,157; 1,043 6,125; 0 8,098; 0 8,258 8,605; 0 0	McDowell McDowell Creek MC4 5,997; 843 6,194; 0 7,230; 0 7,205 7,353; 0 0	Four Mile Four Mile Creek MC40D 7,319; 460 7,792; 3 8,285; 0 8,325 8,548; 0 0	N/A	Clear Clear Creek MY8 7,137; 1,038 6,567; 0 8,133; 0 8,085 8,572; 0 0	N/A	N/A	N/A	**N/A**
	Watershed **Stream** **Site** **Turbidity: # Obs; # Exceedances** **Dissolved O_2: # Obs; # Exceedances** **pH: # Obs; # Exceedances** **Specific Conductance: # Obs** **Temperature: # Obs; #**	N/A	N/A	Gar Gar Creek MC50 6,803; 303 7,121; 0 8,260; 0 8,215 8,314; 0 0	N/A	N/A	Goose Goose Creek MY9 32,571; 2,136 34,638; 0 34,865; 0 35,008 35,009; 0 0	N/A	N/A	N/A	**N/A**
	Watershed **Stream** **Site** **Turbidity: # Obs; # Exceedances** **Dissolved O_2: # Obs; # Exceedances** **pH: # Obs; # Exceedances** **Specific Conductance: # Obs** **Temperature: # Obs; # Exceedances** **# of Problems Detected**	N/A	N/A	Clarke Clarke Creek MY10 6,612; 1,324 6,571; 100 8,194; 0 8,243 8,458; 0 0	N/A	N/A	N/A	N/A	N/A	N/A	**N/A**
	Total Sites **Total Observations** **Total Exceedances** **Total Problems Detected**	N/A	**1** **38,243** **1,043** **0**	**3** **110,770** **2,570** **0**	**1** **40,269** **463** **0**	N/A	**2** **210,585** **3,174** **0**	N/A	N/A	N/A	**7**

#19 (ID-5) Pollution Prevention Education	Staff Trained									
		Comelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Total Staff Trained	N/A	N/A	N/A	N/A	1027	N/A	N/A	N/A	N/A	**1027**

#21 (ID-8) Stream Walks	Stream Walk Activities and Problems Logged in ARCGIS										
		Comelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Stream Name(s)	N/A	South Prong West Branch Rocky River, West Branch Rocky River, unnamed tributaries	Cane Creek, Clarke Creek, Ferrel Town Creek, Ramah Creek, SP Clarke Creek, unnamed tributaries	Four Mile Creek, unnamed tributaries	Back Creek, Cane Creek, Clarke Creek, Ferrel Town Creek, Little Paw Creek, Mallard Creek, NP Clarke Creek, SP Clarke Creek, Paw Creek, Ramah Creek, Rocky River, Stoney Creek, Tricer Branch, West Branch Rocky River, unnamed tributaries	N/A	N/A	N/A	N/A	**N/A**
	Stream Miles Walked	N/A	5.33	19.87	25.21	65.49	N/A	N/A	N/A	N/A	**115.90**
	New Outfalls	N/A	8	71	52	42	N/A	N/A	N/A	N/A	**173**
	Existing Outfalls Inspected	N/A	13	35	82	27	N/A	N/A	N/A	N/A	**157**
	Dry Weather Flow Samples Collected	N/A	0	1	2	0	N/A	N/A	N/A	N/A	**3**
	Number and Type of Exceedances	N/A	0	1 (fecal > 200)	1 (fecal > 200)	0	N/A	N/A	N/A	N/A	**2**
	Problems Detected and Corrected	N/A	0	3	2	4	N/A	N/A	N/A	N/A	**9**
	Buffer Violations	N/A	0	2	1	1	N/A	N/A	N/A	N/A	**4**
	Channel Problems	N/A	2	5	1	11	N/A	N/A	N/A	N/A	**19**
	Total Features Inventoried in ArcGIS	N/A	23	118	141	85	N/A	N/A	N/A	N/A	**367**
	Number of CMSWS Staff Trained (enter in "total" column)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**29**

#22 (ID-9) Facility and Lift Station Inspections	Facility Inspections										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Number of Inspections	0	0	1	1	3	0	1	0	0	**6**
	Number of Violations Observed	0	0	0	0	0	0	0	0	0	**0**

#22 (ID-9) Facility and Lift Station Inspections	Lift Station Inspections										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Number of Inspections	9	1	1	0	1	0	0	0	0	**12**
	Number of Violations Observed	0	0	0	0	0	0	0	0	0	**0**

#22 (ID-9) Illicit Discharge Elimination Program (IDEP)	Penalty Reinspections										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Number of Penalty Reinspections	0	0	0	0	1	0	0	0	0	**1**
	Number of Violations Observed	0	0	0	0	0	0	0	0	0	**0**

#22 (ID-9) Illicit Discharge Elimination Program (IDEP)	Field Validated Outfall Data										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Number of Inspections	1	22	121	169	129	79	40	0	0	**561**
	Number of Violations Observed	1	0	2	3	2	0	4	0	0	**12**

#22 (ID-9) Illicit Discharge Elimination Program (IDEP)	IDEP Activities - Watershed Basin Inspections										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Number of Watershed Basin Inspections	1	1	1	6	1	1	5	N/A	N/A	**16**
	Number of Violations Observed	1	0	0	4	0	0	1	N/A	N/A	**6**

#23 (ID-U) Used Oil Facility Inspections	Used Oil Inspections										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Number of Inspections	0	0	0	2	0	0	0	0	0	**2**
	Number of Violaions Observed	0	0	0	0	0	0	0	0	0	**0**

#25 (CS-1) Erosion Control Inspections	Summary of Erosion Control Inspections										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Number of Inspections	342	195	854	216	N/A	270	256	N/A	N/A	**2,133**
	NOVs Issued	2	0	7	3	N/A	2	0	N/A	N/A	**14**
	Repeat NOVs Issued	0	0	0	1	N/A	0	0	N/A	N/A	**1**
	Penalties Assessed	0	0	0	1	N/A	0	0	N/A	N/A	**1**
	Number of Acres Disturbed	515.2	285	1959	296.56	N/A	612.89	373.613	N/A	N/A	**4,042**
	Number of New Projects Permitted	21	32	54	31	N/A	29	10	N/A	N/A	**177**

#26 (CS-2) Erosion Control Education	Erosion Control Education										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Number of Attendees of	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**67**
	Number of Educational Materials Distributed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**67**

#28 (PC-1) Post-Construction Ordinances	Number of Interpretations of Ordinance Requirements										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Total Number of Intepretations	1	6	4	2	0	4	0	0	0	**17**

#29 (PC-2) BMPs Inspected

Types of BMPs Inspected	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Bioretention	28	26	160	0	5	12	5	59	7	**302**
Buffer	22	0	0	0	0	0	0	2	0	**24**
Dry Pond	0	4	228	24	12	8	23	37	3	**339**
Enhanced Grass Swale	0	0	18	0	0	1	0	6	0	**25**
Filter Strip	6	2	4	0	1	0	0	0	0	**13**
Grassed Channel	0	0	12	0	0	0	0	5	1	**18**
Infiltration Trench	0	2	8	0	0	0	0	0	0	**10**
Level Spreader	0	0	26	0	0	0	0	0	0	**26**
Open Space	0	2	0	0	6	1	0	9	3	**21**
Permeable Pavement	0	1	2	0	0	0	0	0	0	**3**
Sand Filter	20	6	231	25	4	6	24	20	3	**339**
Underground Detention	2	2	16	1	1	2	3	2	2	**31**
Underground Sand Filter	0	0	0	0	0	0	0	0	0	**0**
Stream Restoration	1	0	8	0	10	0	0	0	0	**19**
Wet Pond	22	6	47	5	15	2	3	27	5	**132**
Wetland	2	8	10	0	10	0	0	0	0	**30**
Total 3rd Party	22	30	426	45	62	46	61	N/A	N/A	**692**
Total	**103**	**59**	**770**	**55**	**64**	**32**	**58**	**167**	**24**	**1332**

#29 (PC-2) and #30 (PC-3) BMP Inspections and Education

Summary of BMP Inspections and Education	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Number of Inspections	**103**	**59**	**612**	**55**	**64**	**32**	**58**	**167**	**24**	**1174**
NOVs Issued	1	0	0	0	0	0	0	29	0	**30**
Repeat NOVs Issued	0	0	0	0	0	0	0	19	0	**19**
Number of Penalties Assessed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Number of Acres Disturbed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Number of New Projects Permitted	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Number of Educational Notices Distributed	7	1	21	1	0	1	3	0	0	**34**
Number of CMSWS Staff Trained (enter in "total" column)	N/A	N/A	N/A	N/A	N/A Trained prior to FY25	N/A	N/A	N/A	N/A	**0**

#32 (PP-1) Municipal Operations Employee Training	Municipal Operations/Co-permittees Employee Training for Pollution Prevention and Good Housekeeping Program										
		Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
	Number of Municipal Employees Trained	10	12	16	36	222	13	77	225	68	**679**

#33 (PP-2) Implementing Inspection Program for Municipal Facilities

Phase II Municipal Facility Inspection Recommendations (Recs.) and Deficiencies (Defs.)										
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Number of Inspections Conducted	1	1	1	1	12	1	1	30	4	**52**
Stormwater System Recs.; Defs.	0;0	0;0	0;0	0;0	0;0	0;0	0;0	2;0	1;0	**3;0**
Erosion Issues Recs.; Defs.	0;0	0;0	0;0	0;0	1;0	0;0	0;0	12;0	2;0	**15;0**
Stormwater Control Measures Recs.; Defs.	0;0	0;0	0;0	0;0	1;0	0;0	0;0	9;0	2;0	**12;0**
Illicit Discharges/Connections Recs.; Defs.	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	**0;0**
Aboveground Storage Tanks Recs.; Defs.	0;0	1;0	1;0	0;0	0;0	0;0	0;0	4;0	1;0	**7;0**
Underground Storage Tanks Recs.; Defs.	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	**0;0**
Outdoor Material Storage Areas Recs.; Defs.	0;0	0;0	0;0	0;0	4;0	0;0	0;0	7;0	1;0	**12;0**
Outdoor Processing Areas Recs.; Defs.	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	**0;0**
Loading/Unloading Areas Recs.; Defs.	0;0	0;0	0;0	0;0	0;0	0;0	0;0	1;0	0;0	**1;0**
Vehicle/Equipment Areas Recs.; Defs.	0;0	0;0	0;0	0;0	2;0	0;0	0;0	2;0	0;0	**4;0**
Oil/Water Separator and/or Pretreatment Recs.; Defs.	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	**0;0**
Waste Storage/Disposal Areas Recs.; Defs.	1;0	1;0	1;0	0;0	1;0	0;0	0;0	23;0	4;0	**31;0**
Food Service Areas Recs.; Defs.	0;0	0;0	0;0	0;0	1;0	0;0	0;0	0;0	0;0	**1;0**
Indoor Material Storage Areas Recs.; Defs.	0;0	0;0	0;0	0;0	0;0	0;0	0;0	1;0	0;0	**1;0**
Indoor Processing Areas Recs.; Defs.	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	**0;0**
Floor Drains Recs.; Defs.	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	0;0	**0;0**
Spill Response Equipment Recs.; Defs.	0;0	0;0	0;0	0;0	0;0	0;0	0;0	1;0	0;0	**1;0**
Total Recs. Facility Inspection; Total Defs. Facility Inspection	**1;0**	**2;0**	**2;0**	**0;0**	**10;0**	**0;0**	**0;0**	**62;0**	**11;0**	**88;0**
SWPPP Recs.; Defs.	**0;0**	**1;0**	**0;0**	**0;0**	**6;0**	**0;0**	**0;0**	**23;2**	**4;0**	**34;2**
Number of CMSWS Staff Trained (enter in "total" column)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**6**

#34 (PP-5) Maintaining a Current Inventory of Co-Permittee Facilities and	New/Unique Phase II Municipal Parcels Identified and Recommended for PP-2 Inspection Schedule									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
New/Unique Parcels Identified	3	8	65	3	76	1	0	1	1	**158**
Parcels Recommended for PP-2 Inspection Schedule	0	0	0	0	0	0	0	0	0	**0**

#35 (PP-9) Evaluate Effectiveness of O&M Plans	Cost and Estimated Quantity of Reducing Polluted Stormwater Runoff from Municipally Owned Streets, Roads, and Public									
	Cornelius	Davidson	Huntersville	Matthews	Mecklenburg	Mint Hill	Pineville	CMS	CPCC	Total
Total Amount of Pollutants Removed (pounds)	150,000	5,000	558,600	866,500	N/A	300,000	328,000	N/A	N/A	**2,208,100**
Estimated Cost of Pollutants Removed (per pound)	$2	$0.90	$0.07	$0.22	N/A	$7	$1.17	N/A	N/A	**Total Cost: $2,635,655 Average Removal Cost: $1.19**
Under or Within Acceptable Pollutant Removal Range of $3-$5 per pound? (Yes/No)	Yes	Yes	Yes	Yes	N/A	No	Yes	N/A	N/A	**Yes**

Attachment 2: Status of Program Modifications Implemented FY2025

The table below provides the status of modifications to program activities implemented during FY2025 through the annual evaluation process.

#	Identified Improvement	Justification for Change & Desired Result	Program Element	Responsible Staff	Status
Public Education and Outreach Program					
1.	Explore opportunities for public presentations in all six towns.	Improve educational outreach	PE-10	Audrey Sykes-Meyer	Completed. Sykes-Meyer reached out to all six townships. A lunch and learn is planned for the City of Pineville at the end of 2025.
2.	Reach students through presentations at schools in all six towns.	Improve educational outreach	PE-10	Audrey Sykes-Meyer	Completed. Staff presented to students in all six towns, totaling 1,159 students reached and 48 presentations given
3.	Investigate options for bilingual content on social media channels.	Improve educational outreach	PE-10	Audrey Sykes-Meyer/Taylor Mebane	Completed. Staff will continue to investigate this in FY2026 in hopes of finding a way to implement.
4.	Discontinue the use of increasing awareness and increasing extent of exposure as measures of success and continuing the use of documentation of completion of Stormwater Program activities (see Section 5.8 of SWMP).	Improve measure of success	PE-9	Audrey Sykes-Meyer/Taylor Mebane	Completed.
Public Involvement and Participation Program					
5.	Expand the Adopt-A-Drain program in all six towns.	Increase public involvement	PI-2	Ashley Smith	Completed. The Adopt-A-Drain program is in all six towns. Staff will continue to look for ways to promote to increase public involvement in this program.
6.	Increase storm drain marking efforts in all six towns.	Increase public involvement	PI-3	Audrey Sykes-Meyer	Completed. Efforts increased in Huntersville, Davidson, and Matthews.
7.	Investigate ways to increase participation in the Storm Drain Marking Competition.	Increase public involvement	PI-3	Audrey Sykes-Meyer	Completed. The program was expanded to include separate youth and adult divisions. The competition saw a 61% increase in markers placed as compared to FY24.

#	Identified Improvement	Justification for Change & Desired Result	Program Element	Responsible Staff	Status
8.	Discontinue the use of increasing number of volunteers as a measure of success and continuing the use of documentation of completion of Stormwater Program activities (see Section 6.6 of SWMP).	Improve measure of success	PE-I(14)	Audrey Sykes-Meyer	Completed.
Illicit Discharge Detection and Elimination (IDDE) Program					
9.	Discontinue the use of increasing pollution problems identified and decreasing repeat violators as measures of success and continuing the use of documentation of completion of Stormwater Program activities (see Section 7.10 of SWMP).	Improve measure of success	ID-10	Ryan Spidel	Completed.
Construction Site Storm Water Runoff Control Program					
10.	Increase the total number of erosion control inspections from the previous fiscal year at 627 inspections.	Improve compliance	CS-1	Chanell Hatch	Completed. 1,279 total erosion control inspections conducted in FY25.
11.	Update the current, 2008 Soil Erosion and Sedimentation Control Ordinance.	Stay up to date with the state's ordinance	CS-1	Chanell Hatch	In progress. A draft has been submitted for review with the additional information from the State's model ordinance.
12.	Make the state a vendor to be able to collect erosion control penalties that we are collecting.	Update the process with the state	CS-1	Chanell Hatch	In progress. Ongoing process with the State's financial department and ours.
13.	Discontinue the use of improving erosion control compliance as a measure of success and continuing the use of documentation of completion of Stormwater Program activities (see Section 8.11 of SWMP).	Improve measure of success	CS-3	Corey Priddy	Completed.
Post-Construction Site Storm Water Runoff Control Program					
14.	Increase number of 3rd party inspections completed by owners from previous year (FY2024 = 480).	Improve compliance	PC-2	Jeff Zambanini	Completed. 692 inspections were completed.
15.	Increase follow-up inspections following a Notice of Maintenance Required and/or a Notice of Violation (FY2024 = 24) (not including Huntersville).	Improve compliance	PC-2	Jeff Zambanini	Completed. 127 follow-up inspections were completed.
16.	Increase the number of SCM educational material distributed (FY2024 = 23) (not including Huntersville).	Improve awareness and compliance	PC-2	Jeff Zambanini	Completed. 34 SCM educational materials were distributed.
17.	Discontinue the use of improving BMP compliance as a measure of success and continuing the use of documentation of	Improve measure of success	PC-5	Corey Priddy	Completed.

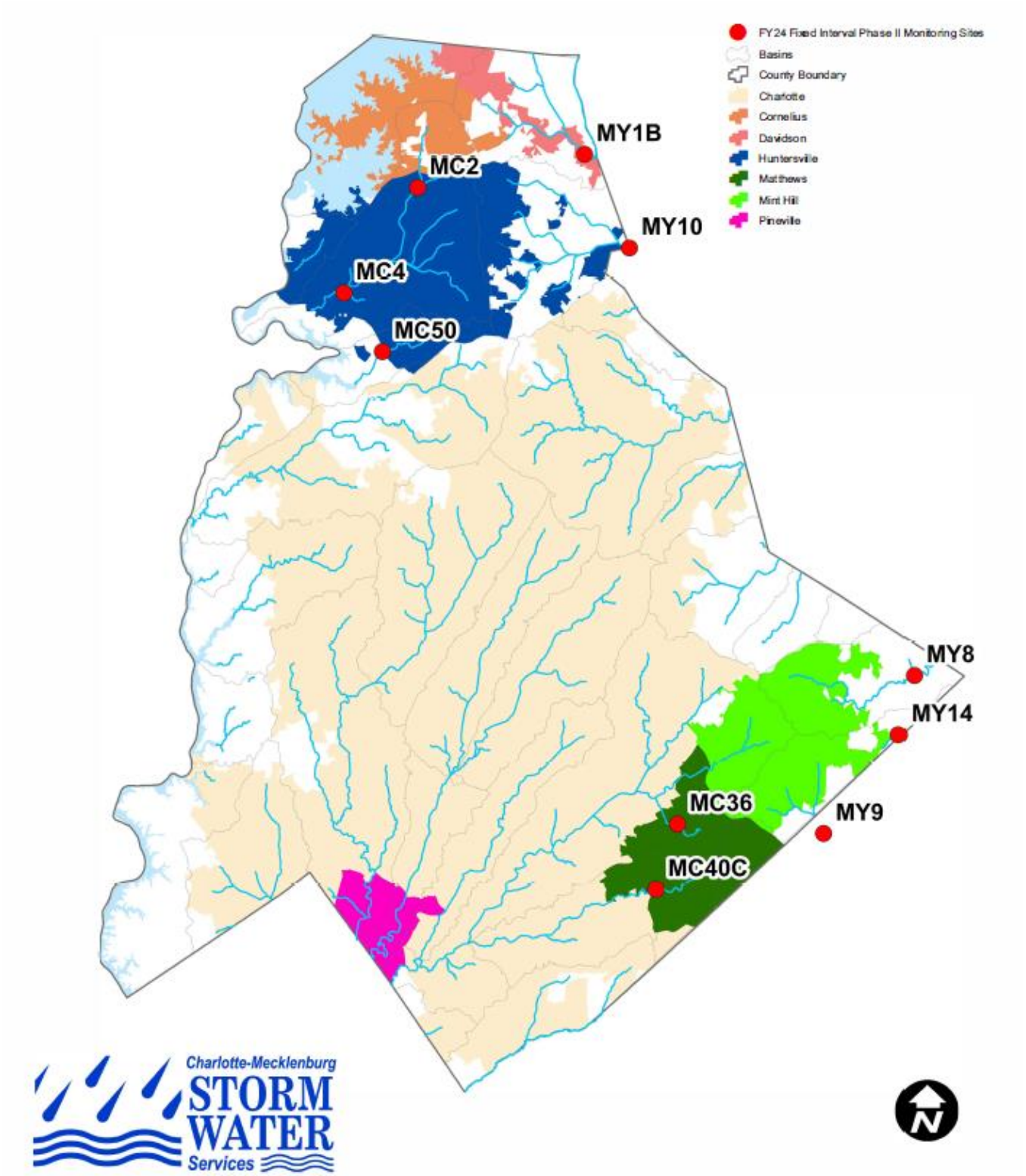
#	Identified Improvement	Justification for Change & Desired Result	Program Element	Responsible Staff	Status
	completion of Stormwater Program activities (see Section 9.14 of SWMP).				
Pollution Prevention & Good House Keeping Program					
18.	Work with the Pollution Prevention team to incorporate deficiencies, repeat recommendations, and other notable recommendations from facility inspections into site-specific training.	Improve awareness and compliance	PP-1 and PP-2	Julianna Hawley and Matthew Peine	Completed. Facility-specific training has been created. The Pollution Prevention and Compliance Teams co-lead trainings for CMS.
19.	Review, update, and redistribute O&M Plans.	Improve compliance	PP-2	Julianna Hawley	Completed. It was determined that The Storm Water Quality Management Plan (SWQMP) and Storm Water Pollution Prevention Plans (SWPPPs) serve as O&M plans and are provided and/or reviewed on an annual basis during facility inspections.
20.	Discontinue the use of improving pollution prevention and good housekeeping as a measure of success and continuing the use of documentation of completion of Stormwater Program activities (see Section 10.16 of SWMP).	Improve measure of success	PP-9	Julianna Hawley	Completed.

Attachment 3: Modifications to the Program for Implementation FY2026

The table below identifies the modifications to program activities to be implemented in FY2026 through the annual evaluation process.

#	Identified Improvement	Justification for Change & Desired Result	Program Element	Responsible Staff	Schedule
Public Education and Outreach Program					
1.	Explore opportunities for the Scoop the Poop campaign	Improve educational outreach	PE-10	Audrey Sykes-Meyer	End of fiscal year
Illicit Discharge Detection and Elimination (IDDE) Program					
2.	Develop a multi-family inspection program and encourage communities to develop Operation and Maintenance Programs for private collection systems.	Prevent illicit discharges and increase compliance with the State's ordinance	ID-9	Julianna Hawley/ Ryan Runkle	End of fiscal year
Construction Site Storm Water Runoff Control Program					
3.	Track the status of updating the current 2008 Soil Erosion and Sedimentation Control Ordinance, including getting the State's and Towns' approvals.	Stay up to date with the State's ordinance	CS-1	Chanell Hatch	End of fiscal year
4.	Track the progress of making the State a vendor to be able to collect erosion control penalties that we are collecting.	Update the process with the State	CS-1	Chanell Hatch	End of fiscal year
Post-Construction Site Storm Water Runoff Control Program					
5.	Update SCM education and maintenance brochures.	Improve awareness and compliance	PC-2	Jeff Zambanini	End of fiscal year
6.	Develop a better system of communication with our review engineers and bonds administrator for the SCM as-built and maintenance bonds processes.	Improve compliance	PC-2	Jeff Zambanini	End of fiscal year or until complete
Pollution Prevention & Good House Keeping Program					
7.	Work with the Pollution Prevention team to incorporate deficiencies, repeat recommendations, and other notable recommendations from facility inspections into relevant and specific training for CMS.	Improve awareness and compliance	PP-1 and PP-2	Julianna Hawley and Matthew Peine	End of fiscal year

Attachment 4: Fixed Interval Monitoring (FIM) Sites



Attachment 5: FIM Results

Attachment 5: Fixed Interval Monitoring (FIM) Results for Phase II FY25

(see site location map in Attachment 4)

Site /Date	Ammonia-Nitrogen (mg/L)	Calcium (ug/L)	Chromium (ug/L)	Copper (ug/L)	E. Coli (MPN/100 ml)	Fecal Coliform (CFU/100 ml)	Hardness (mg/L)	Lead (ug/L)	Magnesium (ug/L)	Nickel (ug/L)	Nitrate/Nitrite (mg/L)	Suspended Sediment Concentration (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Phosphorus (mg/L)	Total Suspended Solids (mg/L)	Turbidity (NTU)	Zinc (ug/L)
MC2																	
7/16/2024	< 0.05	16000	< 5	< 2	262	840	54	< 0.5	3300	< 2	0.28	< 3.9	< 0.25	0.03	< 5	2.6	< 10
8/20/2024	< 0.05	16000		< 2	520	438	54		3400		0.3	< 3.9	< 0.25	0.028	< 5	4.8	
9/17/2024	< 0.05	5200		3.4	7940	29000	19		1300		0.42	97	0.61	0.145	86.9	100	
10/15/2024	< 0.05	17000	< 5	3.2	308	270	59	< 0.5	3900	< 2	0.33	< 3.9	< 0.25	0.028	< 5	3.8	< 10
11/19/2024	< 0.05	14000		< 2	1047	920	47		3000		0.29	< 3.7	< 0.25	0.031	< 5	5.1	
11/19/2024	< 0.05	14000		< 2	1204	1080	49		3200		0.29	< 4.1	< 0.25	0.03	< 5	5.3	
12/19/2024	< 0.05	15000		< 2	82	57	50		3200		0.42	< 4.1	< 0.25	0.028	< 5	7	
1/21/2025	< 0.05	15000	< 5	< 2	262	310	52	< 0.5	3300	< 2	0.6	< 4.3	< 0.25	0.013	< 5	5.1	< 10
2/18/2025	< 0.05	10000		< 2	262	154	34		2200		0.6	5.2	0.32	0.049	6.5	33	
3/18/2025	< 0.05	17000		< 2	276	194	59		3900		0.36	4.6	< 0.25	0.023	5.2	9.1	
4/15/2025	< 0.05	16000	< 5	< 2	276	125	54	< 0.5	3300	< 2	0.55	< 4.2	0.32	0.024	< 5	5.4	< 10
5/20/2025	< 0.05	14000		< 2	727	560	47		3000		0.44	39	0.27	0.047	23	33	
6/17/2025	< 0.05	6400		2.5	2950	4340	22		1500		0.28	81	0.74	0.118	77.7	110	
MC36																	

7/16/2024	0.06	11000	< 5	3.6	1183	11800	40	< 0.5	3200	< 2	0.28	12	0.53	0.062	14.5	20	< 10
8/20/2024	0.09	20000		< 2	410	2800	74		6200		0.06	< 4.4	0.38	0.064	< 5	6.6	
9/17/2024	< 0.05	6300		4.7	6570	16000	22		1600		0.34	30	0.61	0.112	30.4	45	
9/17/2024	< 0.05	6500			7600	8800	23		1700		0.35	32	0.72	0.113	28	40	
9/17/2024				4.8													
10/15/2024	0.1	22000	< 5	< 2	157	280	88	< 0.5	7800	< 2	0.1	< 4.8	< 0.25	0.057	< 5	7.1	< 10
11/19/2024	< 0.05	18000		< 2	71	82	70		6000		0.07	< 4.6	0.28	0.071	< 10	5.3	
12/19/2024	< 0.05	19000		< 2	149	310	73		6400		0.13	95	0.56	0.354	49	15	
1/21/2025	< 0.05	27000	< 5	< 2	190	125	110	< 0.5	9400	< 2	0.13	4.6	0.26	0.044	< 6	9.2	14
2/18/2025	< 0.05	14000		< 2	372	339	54		4700		0.26	< 4.4	0.38	0.046	4	18	
3/18/2025	< 0.05	13000		2.1	271	374	50		4300		0.14	11	0.51	0.065	10.2	23	
4/15/2025	0.2	19000	< 5	< 2	169	200	74	< 0.5	6400	< 2	0.17	6.3	0.55	0.071	5.6	10	< 10
5/20/2025	0.32	20000		< 2	33	125	77		6500		< 0.05	< 4.3	0.76	0.103	6	9	
6/17/2025	0.12	8700		2.3	850	2400	32		2400		0.2	8.3	0.68	0.071	8.6	14	
MC4																	
7/16/2024	< 0.05	13000	< 5	< 2	231	216	46	< 0.5	3500	< 2	0.2	< 3.8	< 0.25	0.021	< 5	2.2	< 10
8/20/2024	< 0.05	14000		< 2	520	750	50		3800		0.22	< 4.2	< 0.25	0.031	< 5	9.4	
10/15/2024	< 0.05	17000	< 5	< 2	108	100	61	< 0.5	4900	< 2	0.25	< 3.9	< 0.25	0.032	< 5	5.9	< 10
10/15/2024	< 0.05	15000	< 5	< 2	136	75	56	< 0.5	4500	< 2	0.25	13	< 0.25	0.036	9.8	8.7	< 10
11/19/2024	< 0.05	15000		< 2	119	132	56		4200		0.3	< 4	< 0.25	0.032	< 5	8.4	
12/19/2024	< 0.05	14000		< 2	345	420	53		4200		0.36	< 4.2	< 0.25	0.035	< 5	11	

1/21/2025	< 0.05	17000	< 5	< 2	146	113	62	< 0.5	4800	< 2	0.41	< 4.2	< 0.25	0.014	< 5	7	< 10
2/18/2025	< 0.05	10000		< 2	226	247	37		2800		0.51	5.4	0.32	0.056	10.5	40	
3/18/2025	< 0.05	14000		< 2	229	163	52		4200		0.28	< 4.3	< 0.25	0.025	< 5	10	
4/15/2025	< 0.05	15000	< 5	< 2	109	100	55	< 0.5	4300	< 2	0.4	< 4.3	0.27	0.035	5	8.3	< 10
5/20/2025	< 0.05	15000		< 2	326	455	55		4300		0.39	< 4.1	< 0.25	0.035	< 5	6.4	
MC40C																	
7/16/2024	< 0.05	94000	< 5	2.6	1354	46500	33	< 0.5	2300	< 2	0.21	8.9	0.43	0.06	14	34	< 10
8/20/2024	< 0.05	17000		< 2	630	2070	65		5200		0.28	< 4.4	0.29	0.043	< 5	1.6	
9/17/2024	< 0.05	70000		5.9	6370	140000	24		1600		0.22	16	0.72	0.11	15.6	50	
10/15/2024	< 0.05	18000	< 5	< 2	979	720	70	< 0.5	6100	< 2	0.14	< 4.4	< 0.25	0.032	< 5	2.1	< 10
11/19/2024	< 0.05	17000		< 2	775	550	65		5400		0.12	< 4.2	< 0.25	0.036	< 5	2.4	
11/19/2024	< 0.05	17000			727	610	65		5300		0.11	< 4.2	< 0.25	0.036	< 5	2.3	
11/19/2024				< 2													
12/19/2024	< 0.05	16000		< 2	436	474	60		5000		0.16	< 3.8	< 0.25	0.042	< 5	5.2	
1/21/2025	< 0.05	22000	< 5	< 2	337	270	84	< 0.5	7100	< 2	0.2	< 4.4	< 0.25	< 0.01	< 5	4	< 10
2/18/2025	< 0.05	17000		< 2	449	440	63		5000		0.25	< 4.2	0.38	0.04	3.2	22	
3/18/2025	< 0.05	14000		2.3	1608	660	53		4400		0.1	< 4.1	0.48	0.042	5.6	19	
4/15/2025	0.06	18000	< 5	< 2	345	270	68	< 0.5	5600	< 2	0.26	< 4.5	0.4	0.039	< 5	4.6	< 10
5/20/2025	< 0.05	18000		< 2	867	570	67		5300		0.45	< 4.7	0.34	0.058	< 5	4.3	
6/17/2025	< 0.05	13000		< 2	630	1290	46		3200		0.26	< 4.3	0.55	0.053	< 5	13	
MC50																	

7/16/2024	< 0.05	25000	< 5	< 2	379	324	98	< 0.5	8600	< 2	0.4	< 3.9	< 0.25	0.079	60	32	< 10
8/20/2024	< 0.05	23000		< 2	410	250	91		8100		0.38	< 4	< 0.25	0.06	< 5	2	
9/17/2024	< 0.05	8100		3.9	11060	30000	33		3000		0.36	33	0.88	0.217	29	55	
9/17/2024	< 0.05	8200		4	17890	28000	33		3100		0.34	31	0.86	0.217	33.4	60	
10/15/2024					113	125											
10/15/2024	< 0.05	27000	< 5	< 2			100	< 0.5	9300	< 2	0.22	< 3.8	< 0.25	0.043	< 5	1.6	< 10
11/19/2024	< 0.05	24000		< 2	207	163	94		8300		0.17	< 3.8	< 0.25	0.038	< 5	1.6	
12/19/2024	< 0.05	21000		< 2	179	150	83		7400		0.31	< 4.3	< 0.25	0.042	< 5	4.1	
1/21/2025	< 0.05	24000	< 5	< 2	130	100	94	< 0.5	8300	< 2	0.25	< 4.1	< 0.25	0.019	< 5	3.9	< 10
2/18/2025	< 0.05	14000		< 2	288	247	56		5000		0.36	< 4.3	0.3	0.054	< 2.8	21	
3/18/2025	< 0.05	20000		< 2	202	182	80		7400		0.1	< 4.4	< 0.25	0.027	< 5	4.4	
4/15/2025	< 0.05	23000	< 5	< 2	64	63	90	< 0.5	8000	< 2	0.47	< 4.3	0.28	0.037	< 5	4	< 10
5/20/2025	< 0.05	24000		< 2	79	94	94		8200		0.46	< 4.1	< 0.25	0.061	< 5	4	
6/17/2025	< 0.05	13000		2.8	11370	11000	52		4700		0.26	16	1	0.194	28	75	
MY10																	
7/16/2024	< 0.05	19000	< 5	< 2	161	293	71	< 0.5	5600	< 2	0.38	< 3.8	< 0.25	0.05	< 5	1.2	< 10
8/20/2024	< 0.05	20000		< 2	520	375	77		6400		0.38	< 4.2	0.28	0.071	< 5	11	
10/15/2024	< 0.05	23000	< 5	< 2	84	125	90	< 0.5	7600	< 2	0.5	16	< 0.25	0.05	< 5	12	< 10
11/19/2024	< 0.05	20000		< 2	291	250	77		6500		0.46	< 3.8	0.28	0.047	< 5	11	
12/19/2024	< 0.05	17000		< 2	119	119	65		5500		0.6	< 4.2	< 0.25	0.054	6.4	17	
1/21/2025	< 0.05	21000	< 5	< 2	87	82	82	< 0.5	7100	< 2	0.71	7	0.28	0.044	7.2	15	< 10

1/21/2025	< 0.05	22000	< 5	< 2	82	75	84	< 0.5	7300	< 2	0.71	4.4	< 0.25	0.04	8	18	< 10
2/18/2025	< 0.05	12000		< 2	249	170	47		4100		0.5	17	0.38	0.087	27	60	
3/18/2025	< 0.05	21000		< 2	173	100	81		6900		0.78	7.6	0.34	0.059	7.6	16	
4/15/2025	0.08	20000	< 5	< 2	219	210	77	< 0.5	6600	< 2	0.61	6.7	0.38	0.035	6.8	12	< 10
5/20/2025	0.06	21000		< 2	179	144	79		6500		0.6	4.1	0.26	0.069	< 5	8.9	
6/17/2025	< 0.05	9500		4.4	4140	6600	37		3300		1	98	1.2	0.329	95.3	180	
MY14																	
7/16/2024	< 0.05	36000	< 5	2.1	6488	4700	110	< 0.5	5500	< 2	19	< 3.9	0.55	2.08	< 5	1.4	< 10
8/20/2024	< 0.05	27000		< 2	1450	1690	92		5700		11	< 4.4	0.47	1.2	< 5	2.5	
8/20/2024	< 0.05	28000		< 2	960	1000	94		5900		11	< 4.1	< 0.25	1.2	< 5	2.3	
9/17/2024	< 0.05	8000		2.7	10950	10600	30		2400		3.6	26	0.81	0.169	30.5	60	
10/15/2024	< 0.05	24000	< 5	< 2	326	340	84	< 0.5	5800	< 2	6.2	< 4.1	0.3	0.729	< 5	1.2	< 10
11/19/2024	< 0.05	26000		< 2	737	580	90		5700		6.9	< 3.9	0.41	0.74	< 5	1.4	
12/19/2024	< 0.05	19000		< 2	119	132	69		5300		2.3	< 3.9	0.27	0.316	< 5	4.4	
1/21/2025	< 0.05	22000	< 5	< 2	43	25	81	< 0.5	6200	< 2	2.8	< 4.7	0.3	0.3	< 5	2.1	< 10
2/18/2025	< 0.05	11000		< 2	457	231	42		3600		1.2	< 3.9	0.5	0.15	3	40	
3/18/2025	< 0.05	12000		< 2	649	530	45		3700		1.2	5.2	0.56	0.14	7.8	29	
4/15/2025	0.08	16000	< 5	< 2	249	163	60	< 0.5	4900	< 2	14	< 3.8	0.51	0.162	< 5	8.1	< 10
5/20/2025	< 0.05	16000		< 2	1300	880	58		4500		1.8	< 4.4	0.41	0.24	< 5	5.6	
6/17/2025	< 0.05	14000		< 2	300	500	52		4100		1.7	< 3.9	0.57	0.204	< 5	21	
MY1B																	

7/16/2024	< 0.05	14000	< 5	< 2	221	1270	54	< 0.5	4500	< 2	0.23	< 3.8	< 0.25	0.028	< 5	4	< 10
8/20/2024	< 0.05	16000		< 2	200	688	62		5300		0.21	< 4.1	< 0.25	0.027	< 5	5.2	
9/17/2024	< 0.05	6200		3.2	13960	35000	26		2600		0.37	210	0.79	0.303	190	210	
10/15/2024	< 0.05	17000	< 5	< 2	210	163	65	< 0.5	5500	< 2	0.12	< 3.9	< 0.25	0.023	< 5	4.2	< 10
11/19/2024	< 0.05	17000		< 2	262	370	64		5200		0.33	3.7	< 0.25	0.033	< 5	10	
12/19/2024	< 0.05	14000		< 2	249	250	54		4600		0.36	27	< 0.25	0.049	27	22	
12/19/2024	< 0.05	14000		< 2	436	182	52		4400		0.36	27	< 0.25	0.051	24	20	
1/21/2025	< 0.05	17000	< 5	< 2	146	82	66	< 0.5	5500	< 2	0.52	9.2	< 0.25	0.013	< 5	7.6	< 10
2/18/2025	< 0.05	11000		< 2	295	247	43		3800		0.47	25	0.9	0.067	33	50	
3/18/2025	< 0.05	17000		< 2	219	82	65		5500		0.3	18	< 0.25	0.022	6.6	11	
4/15/2025	< 0.05	17000	< 5	< 2	329	1780	65	< 0.5	5500	< 2	0.57	40	0.55	0.078	40.5	65	< 10
5/20/2025	< 0.05	16000		< 2	518	625	60		4800		0.52	7.8	< 0.25	0.043	9	18	
6/17/2025	< 0.05	9800		2.4	2590	4550	37		3100		0.26	120	0.9	0.145	93.3	130	
MY8																	
7/16/2024	< 0.05	14000	< 5	< 2	156	200	52	< 0.5	4400	< 2	0.53	< 3.8	0.26	0.03	< 5	8.9	< 10
8/20/2024	< 0.05	14000		< 2	100	750	54		4700		0.76	4.1	< 0.25	0.024	5.4	14	
9/17/2024	< 0.05	5500		2.6	9600	21000	23		2200		0.07	190	0.78	0.199	195	180	
9/17/2024	< 0.05	6200		2.6	9735	15300	25		2400		0.36	190	0.9	0.197	188	190	
10/15/2024	< 0.05	16000	< 5	< 2	326	320	61	< 0.5	5400	< 2	0.79	< 4.3	< 0.25	0.016	< 5	3.7	< 10
11/19/2024	< 0.05	16000		< 2	462	330	61		5100		0.54	< 3.9	< 0.25	0.016	< 5	4.5	
12/19/2024	< 0.05	16000		< 2	727	400	63		5500		0.7	< 4	< 0.25	0.018	< 5	12	

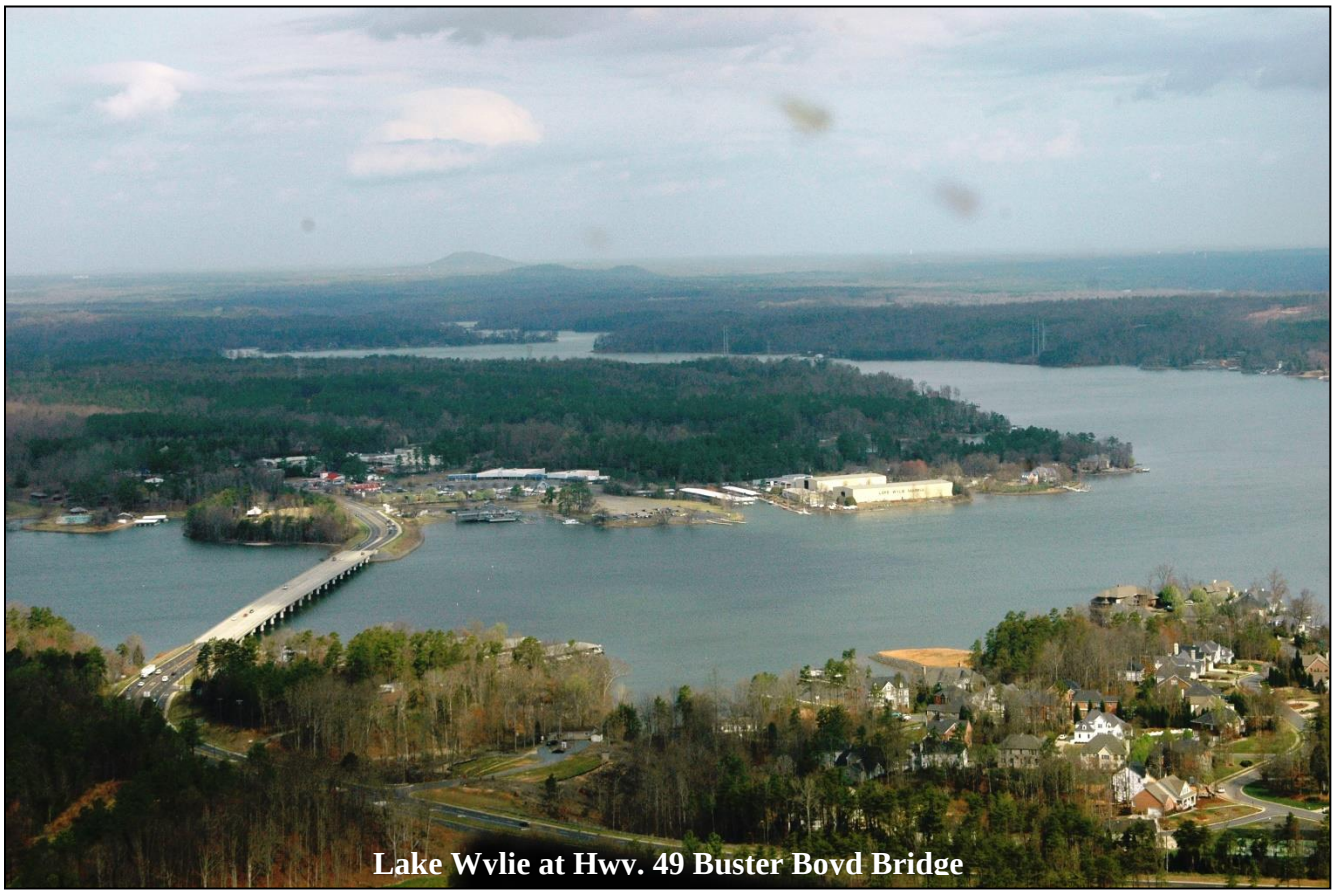
1/21/2025	< 0.05	16000	< 5	< 2	142	132	62	< 0.5	5500	< 2	0.76	< 3.9	< 0.25	< 0.01	< 5	4.9	< 10
2/18/2025	< 0.05	9800		< 2	538	440	38		3300		0.67	< 3.8	0.3	0.039	6.2	40	
3/18/2025	< 0.05	12000		< 2	1204	1270	48		4400		0.45	9.5	0.27	0.043	10.3	70	
4/15/2025	< 0.05	14000	< 5	< 2	1120	480	55	< 0.5	4800	< 2	0.59	< 4	0.31	0.014	< 5	8.7	< 10
5/20/2025	< 0.05	14000		< 2	687	460	54		4700		0.71	< 3.9	< 0.25	0.024	< 5	8.6	
6/17/2025	< 0.05	9100		< 2	5650	13000	35		3000		0.36	49	0.73	0.112	47.7	130	
MY9																	
7/16/2024	< 0.05	15000	< 5	< 2	800	580	57	< 0.5	5000	< 2	0.56	< 4	< 0.25	0.017	< 5	2.4	< 10
7/16/2024	< 0.05	14000	< 5	< 2	631	530	56	< 0.5	4900	< 2	0.57	< 4.3	< 0.25	0.02	< 5	2.4	< 10
8/20/2024	< 0.05	14000		< 2	415	563	56		4900		0.59	< 4	< 0.25	0.019	< 5	3	
9/17/2024	< 0.05	5400		3.6	8600	13000	21		1700		0.51	54	0.92	0.137	60	85	
10/15/2024	< 0.05	15000	< 5	< 2	753	580	58	< 0.5	5100	< 2	0.72	< 4.5	< 0.25	0.017	< 5	2.2	< 10
11/19/2024	< 0.05	16000		< 2	825	645	62		5400		0.6	< 3.9	< 0.25	0.017	< 5	2.2	
12/19/2024	< 0.05	15000		< 2	687	467	59		5200		0.63	< 4	< 0.25	0.023	< 5	11	
1/21/2025	< 0.05	16000	< 5	< 2	363	260	62	< 0.5	5400	< 2	0.74	< 3.9	< 0.25	< 0.01	< 5	3.5	< 10
2/18/2025	< 0.05	10000		< 2	533	934	39		3400		0.6	< 4	0.37	0.046	5.6	30	
3/18/2025	< 0.05	12000		< 2	771	654	47		4200		0.49	< 3.8	0.3	0.029	< 5	24	
4/15/2025	< 0.05	15000	< 5	< 2	195	670	58	< 0.5	5000	< 2	0.68	< 3.9	0.36	0.021	< 5	5.6	< 10
5/20/2025	< 0.05	14000		< 2	1817	1040	54		4600		0.68	< 4.3	< 0.25	0.033	< 5	5.6	
6/17/2025	< 0.05	8700		< 2	4535	9400	32		2600		0.43	50	0.82	0.114	34	100	

Absolute values: Laboratory results of grab surface water samples
< values: Shows samples that were below method detection limit (MDL)

Attachment 6: FY2025 TMDL Annual Report

For Compliance With:
NPDES Phase II Storm Water Permit Number NCS000395

Reporting Period:
July 1, 2024 through June 30, 2025



Lake Wylie at Hwy. 49 Buster Boyd Bridge

Submitted By:

Charlotte-Mecklenburg Storm Water Services

Submittal Date: August 2025

Table of Contents

Tables:

Figures

Appendices

Section 1: TMDLs in Mecklenburg County

The purpose of this document is to satisfy the Total Maximum Daily Load (TMDL) reporting and assessment requirements for the period July 1, 2024 through June 30, 2025 (FY2025) as specified in Section H of NPDES Phase II Storm Water Permit Number NCS000395.

Several of the TMDL watersheds in Mecklenburg County span both Phase I and Phase II jurisdictions. All Phase I and Phase II TMDL compliance efforts are administered by Charlotte-Mecklenburg Storm Water Services (CMSWS), which includes both City of Charlotte (City) and Mecklenburg County (County) programs. The City's program is responsible for compliance with its Phase I storm water permit and Mecklenburg County's program is responsible for Phase II permit compliance for the County, Charlotte-Mecklenburg Schools, Central Piedmont Community College and the Towns of Cornelius, Davidson, Huntersville, Matthews, Mint Hill, and Pineville. To ensure effective coordination, the City and County have agreed that the City will serve as the lead jurisdiction for compliance with TMDL requirements when the majority of the TMDL watershed lies within the Phase I jurisdiction. When most of the watershed lies within Phase II, the County will serve as the lead. The lead jurisdiction is responsible for coordinating and implementing all required TMDL compliance efforts and submitting all the required plans and reports to the State. They are also responsible for coordinating with the other jurisdictions as necessary in the implementation of compliance efforts. Table 1 indicates the lead jurisdiction for all the approved TMDLs in Charlotte-Mecklenburg.

Charlotte-Mecklenburg Storm Water Services (CMSWS) has reviewed the Draft 2022 303(d) list and integrated 305(b) reports and determined that no new TMDLs were approved in Mecklenburg County; therefore, no changes were made to the TMDL Water Quality Recovery Program described in Section 11 of the November 2024 version of the Storm Water Management Plan (SWMP) developed for compliance with NPDES NCS000395. CMSWS also reviewed the DRAFT 2024 303(d) list and integrated 305(b) reports and provided the following comments to NCDEQ in a letter dated April 26, 2024:

The following reaches should be listed as Category 5 (impaired) for benthos and are not currently listed as such:

- Paw Creek (11-124)
- Beaverdam Creek (11-126)
- Briar Creek (11-137-8-2) – this reach is also spelled incorrectly as "Brier"
- Coffey Creek (11-137-4)
- Fourmile Creek (11-137-9-4)
- Steele Creek (11-137-10)
- Mallard Creek (13-17-5a)
- West Branch Rocky River (13-17-3)
- Clarke Creek (13-17-4)

Additionally, Clarke Creek (13-17-4) is listed as Category 5 for Fish on the draft 2024 303(d) list while our assessment in 2022 shows a good-fair classification (Category 1) for fish.

Section H of NPDES Permit Number NCS000395 identifies the objective of a Water Quality Recovery Program for TMDLs at reducing levels of the pollutant of concern in accordance with

approved Waste Load Allocation (WLAs) assigned to stormwater in an approved TMDL. The Permit includes the following requirements for TMDL watersheds in the Phase II jurisdictions of Mecklenburg County:

1. Within 12 months of the final approval of a TMDL, the permittee's annual reports shall include a description of existing programs, controls, partnerships, projects, and strategies to address impaired waters and a brief explanation as to how the programs, controls, partnerships, projects, and strategies address impaired waters.
2. Within 24 months of the final approval of a TMDL, the permittee's annual reports shall include an assessment of whether additional structural and/or non-structural BMPs are necessary to address impaired waters and a brief explanation as to how the programs, controls, partnerships, projects, and strategies address impaired waters.
3. Within 36 months of the final approval of a TMDL, the permittee's annual reports shall include a description of activities expected to occur and when the activities are expected to occur.

Section H of NPDES Permit Number NCS000395 further specifies that if subject to an approved TMDL, the Permittee is in compliance with the TMDL if the permittee complies with the conditions of this permit, including developing and implementing appropriate BMPs to reduce non-point source pollutant loading to the maximum extent practicable (MEP). While improved water quality is the expected outcome, the NPDES MS4 permit obligation is to reduce non-point source pollutant loading to the maximum extent practicable (MEP). The MS4 Permittee is not responsible for attaining water quality standards (WQS) at the ambient monitoring stations. The Division expects attaining WQS will only be achieved through reduction from the MS4, along with reductions from other nonpoint source contributors.

The purpose of the annual report and assessment contained herein is to describe how the above permit requirements have been satisfied for the approved TMDLs applicable to Mecklenburg County as described in Table 1. Figure 1 shows the locations of these receiving waters in relation to the Phase I and Phase II jurisdictions in Mecklenburg County.

Table 1: Approved TMDLs for Mecklenburg County's Phase I and Phase II Jurisdictions

AU Name	AU Number	Class	TMDL Pollutant	IR Category (2022)	EPA Approved	MS4 WLA?	Lead Jurisdiction
Irwin Creek	11-137-1	C	DO	1	2/5/1996	No	Charlotte
			Fecal Coliform	4t	3/28/2002	No	Charlotte
			Turbidity	4i	2/8/2005	Yes	Charlotte
Long Creek	11-120-(0.5)	C	Turbidity	3i	2/8/2005	Yes	Charlotte
Long Creek	11-120-(2.5)	WS-IV	Turbidity	3i	2/8/2005	Yes	Charlotte
Little Sugar	11-137-8a	C	DO	1	2/5/1996	No	Charlotte
			Fecal Coliform	4t	3/28/2002	No	Charlotte
Little Sugar	11-137-8b	C	DO	1	2/5/1996	No	Charlotte
			Fecal Coliform	4t	3/28/2002	No	Charlotte
Little Sugar	11-137-8c	C	DO	1	2/5/1996	No	Charlotte
			Fecal Coliform	4t	3/28/2002	No	Charlotte
			Turbidity	4i	2/8/2005	Yes	Charlotte

AU Name	AU Number	Class	TMDL Pollutant	IR Category (2022)	EPA Approved	MS4 WLA?	Lead Jurisdiction
McAlpine Creek	11-137-9a	C	DO	1	2/5/1996	No	Charlotte
			Fecal Coliform	4t	3/28/2002	No	Charlotte
			Turbidity	1i	2/8/2005	Yes	Charlotte
McAlpine Creek	11-137-9b	C	DO	1	2/5/1996	No	Charlotte
			Fecal Coliform	4t	3/28/2002	No	Charlotte
			Turbidity	1i	2/8/2005	Yes	Charlotte
McAlpine Creek	11-137-9c	C	DO	1	2/5/96	No	Charlotte
			Fecal Coliform	4t	3/28/2002	No	Charlotte
			Turbidity	1i	2/8/2005	Yes	Charlotte
McAlpine Creek	11-137-9d	C	DO	1	2/5/1996	No	Charlotte
			Fecal Coliform	4t	3/28/2002	No	Charlotte
			Turbidity	1i	2/8/2005	Yes	Charlotte
Sugar Creek	11-137b	C	Fecal Coliform	4t	3/28/2002	No	Charlotte
			Turbidity	4i	2/8/2005	Yes	Charlotte
Sugar Creek	11-137c	C	Fecal Coliform	4t	3/28/2002	No	Charlotte
			Turbidity	4i	2/8/2005	Yes	Charlotte
McKee Creek	13-17-8-4	C	Fecal Coliform	4t	8/1/2003	Yes	Charlotte
Rocky River	13-17a	C	Fecal Coliform	4t	9/19/2002	Yes	Mecklenburg
Steele Creek	11-137-10	C	Fecal Coliform	SC TMDL	5/2007	Yes	Charlotte
Lake Wylie	11-122	C	Chlorophyll-a	1	2/5/1996	No	Mecklenburg
Lake Wylie	11-(123.5)a	C	Chlorophyll-a	1	2/5/1996	No	Mecklenburg
Goose Creek	13-17-18a	C	Fecal Coliform	4t	7/8/2005	Yes	Mecklenburg

Definitions applicable to Table 1 above are provided below. Other definitions for the table are provided on page vi of the Table of Contents.

- AU Number: NCDEQ identifies waters by index numbers and assessment unit numbers (AU#) that are used to track defined stream segments or waterbodies.
- Class (Water Quality Classification): Designations applied to surface water bodies by NCDEQ that define the best uses to be protected within these waters as required by the Clean Water Act, including water supply use (WS), recreation activities (B), and aquatic life (C).
- TMDL: Acronym for Total Maximum Daily Load. A TMDL is the calculation of the maximum amount of a pollutant allowed to enter a waterbody so that the waterbody will meet and continue to meet water quality standards for that particular pollutant. A TMDL identifies pollutant reduction targets and allocates load reductions necessary to the source(s) of the pollutant to restore waterbodies where water quality criteria are exceeded.
- IR (Integrated Report) Category: Levels of water quality criteria attainment as defined in the NCDEQ Integrated Report as follows:
  - 1 - Meeting Criteria.
  - 1b Meeting Criteria - A management strategy in place for parameter 1t: Parameter is meeting criteria and there is an approved TMDL in place for that parameter. The TMDL remains in place to ensure that criteria are maintained.
  - 1f Meeting Criteria - Fish tissue collected in Assessment Unit with no advisories other than statewide Mercury advice.
  - 1i Meeting Criteria - Parameter assessed is addressed by a TMDL for a different parameter.
  - 1nc Meeting Criteria - Parameter assessed was exceeding criteria but due to natural conditions (documentation required).

- 1r Meeting Criteria - Parameter assessed as part of restoration project.
- 1t Meeting Criteria - Parameter assessed has an approved TMDL.
- 3a Data Inconclusive.
- 3b Data Inconclusive - Management strategy in place for parameter.
- 3c Data Inconclusive - Parameter is a non-pollutant - TMDL not required.
- 3i Data Inconclusive - Parameter assessed is addressed by a TMDL for a different parameter.
- 3r Data Inconclusive - Parameter assessed as part of restoration project.
- 3t Data Inconclusive - Parameter assessed has an approved TMDL.
- 3v Data Inconclusive - Parameter is part of permit variance.
- 3z1 Data Inconclusive - Data not assessed against a NC water quality standard.
- 4i Exceeding Criteria - Parameter assessed is addressed by a TMDL for a different parameter.
- 4t Exceeding Criteria - Parameter assessed has an approved TMDL.
- 4b Exceeding Criteria - a management strategy in place for parameter.
- 4c Exceeding Criteria - Parameter is a non-pollutant - TMDL not required.
- 4cr Exceeding Criteria - recreational advisory postings greater than 61 days in the assessment period.
- 4cs Exceeding Criteria - Shellfish growing area - not approved. Approved fecal coliform bacteria TMDL assessed in category 4t.
- 4r Exceeding Criteria - Ongoing restoration activities in place to address parameter. Also, for restoration parameters without water quality standards.
- 4v Exceeding Criteria - Parameter is part of permit variance.
- 5 Exceeding Criteria - TMDL or other management strategy required.
- 5r Exceeding Criteria - Ongoing restoration activities in place to address parameter.
- S.C. TMDL: Waterbody is subject a TMDL in S.C.

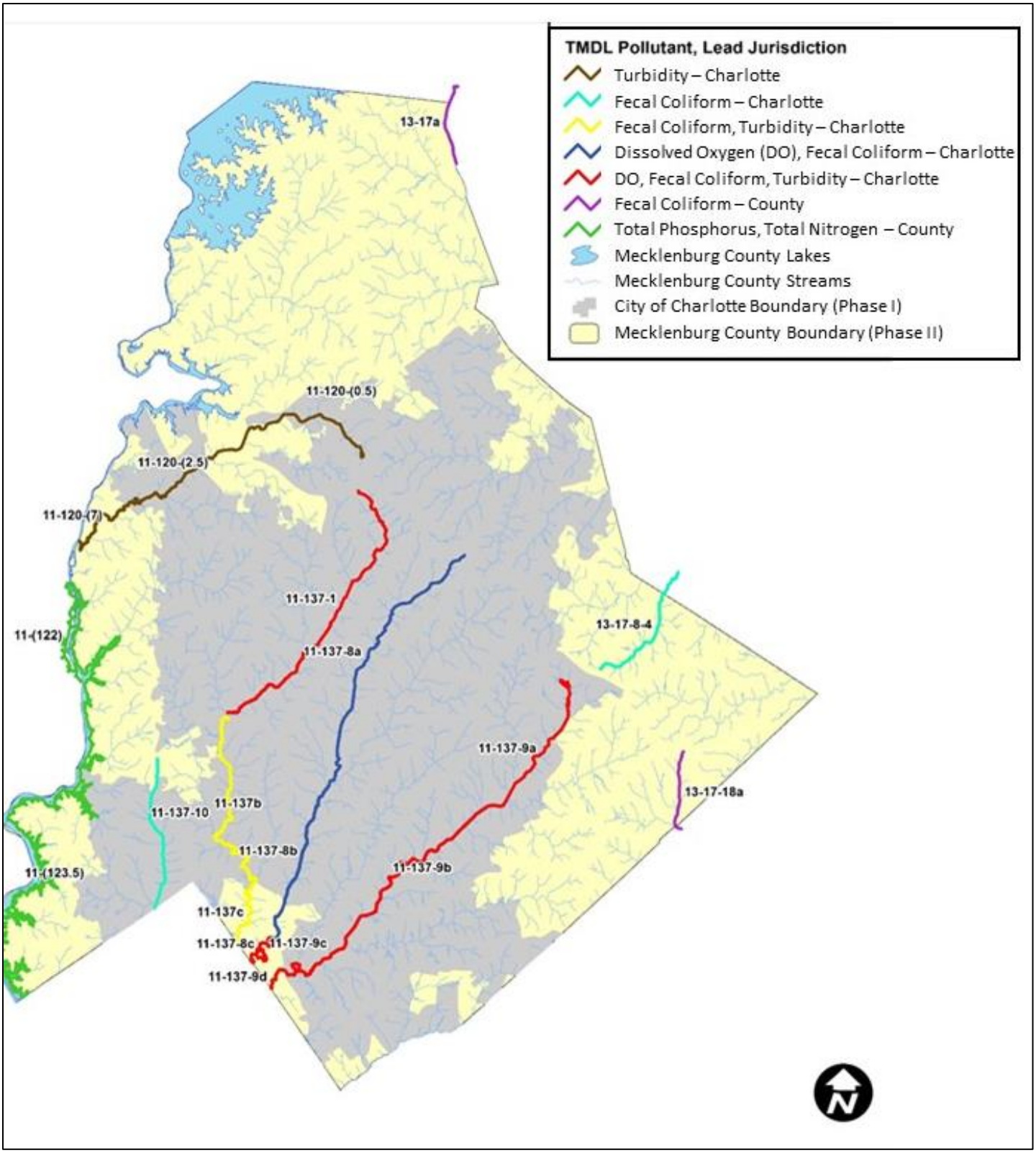


Figure 1: Surface Waters in Mecklenburg County with Approved TMDLs

Section 2: Efforts to Address Impaired Waters in Mecklenburg County

The efforts undertaken to address impaired waters in Mecklenburg County, including programs, controls, partnerships, projects, and strategies, are performed by CMSWS. As described in Section 1, Mecklenburg County staff with CMSWS lead these efforts in the Phase II jurisdictions and the City of Charlotte in Phase I partnering with the County. This Section discusses these efforts in the Phase II jurisdictions only, including all data that is reported (see Appendix A). It is important to note that Mecklenburg County is only responsible for compliance efforts in Phase II, which includes the TMDLs for Goose Creek, Rocky River, and Lake Wylie. Mecklenburg County's efforts are described in detail in its TMDL Water Quality Recovery Program contained in Section 11 of the SWMP developed for compliance with NPDES NCS000395.

2.1 BMPs and Associated Measurable Goals

During FY2025, all the BMPs and measurable goals identified in the Phase II Permit NCS000395 and the associated SWMP were effectively fulfilled as described in Table 2. The table also provides the Activity Report number from the County's Cityworks database that includes documentation of the work completed for each BMP. The subsections following Table 2 describe the existing programs, controls, partnerships, projects, and strategies to address impaired waters (herein referred to as BMPs) and a brief explanation as to how these BMPs function. These subsections also describe the specific activities completed in FY2025 through the implementation of these BMPs. Section 3 provides an assessment of current BMP effectiveness, including an analysis of applicable monitoring data. Section 4 provides a description of additional BMPs implemented in FY2025, as well as those planned for implementation in FY2026 along with an implementation timeline, and a brief explanation as to how these additional BMPs will address impaired waters.

Table 2: BMP Summary Table for Impaired Waters with TMDLs

Total Maximum Daily Load (TMDL) Program (Permit Ref. Section H; Part III Sections A,B,C,D; Part IV Sections B,F): Implement a program to reduce levels of the pollutant of concern in accordance with approved Waste Load Allocation (WLAs) assigned to stormwater in an approved TMDL.					
BMP # & Work Plan Code	**A**	**B**	**C**	**D**	**E**
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
#35 IW-1	Evaluate Impaired Waters				
	Identifying those impaired waters with an approved TMDL in Mecklenburg County that have a waste load allocation assigned to stormwater.	a. Annual Report – Document completion of Work Plan program element	Annually beginning July 1	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87378, 97297 See Section 1 of this document
		b. Annual Assessment	Annually beginning July 1	Completed/Not Completed	
		c. Review TMDLs Approved by EPA	Annually beginning July 1	c.1. Completed/Not Completed c.2. # and description of new TMDLs approved	
		d. Review Approved and Draft Versions of N.C. Integrated Report	Annually beginning July 1	d.1. Completed/Not Completed d.2. # and description of changes	

Total Maximum Daily Load (TMDL) Program (Permit Ref. Section H; Part III Sections A,B,C,D; Part IV Sections B,F): Implement a program to reduce levels of the pollutant of concern in accordance with approved Waste Load Allocation (WLAs) assigned to stormwater in an approved TMDL.

BMP # & Work Plan Code	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric	E Annual Reporting Status
#36 IW-2	Water Quality Recovery Plans for TMDLs				
	Developing and implementing Water Quality Recovery Plans (WQRPs) for TMDL waters with a waste load allocation assigned to stormwater.	a. Annual Report – Document completion of Work Plan program element	Annually beginning July 1	Completed/Not Completed	Completed & Permit Compliance Achieved AR#: 87379, 97302 See Sections 2, 3, and 4 of this document
		b. Annual Assessment – Document status of implementation of the Storm Water Plan	Annually beginning July 1	Completed/Not Completed	
		c. Evaluate Land Use and Development	Annually beginning July 1	c.1. Completed/Not Completed c.2. # and type changes	
		d. Review BMPs or SCMs to Reduce Nonpoint Source Pollution	Annually beginning July 1	d.1. Completed/Not Completed d.2. # and type changes	
		e. Determine Location of Failed Septic Systems	Annually beginning July 1	e.1. Completed/Not Completed e.2. # failing systems	
		f. Confirm Follow Up Activities Are Conducted	Annually beginning July 1	f.1. Completed/Not Completed f.2. # repairs completed	
		g. Inspect Major Outfalls	Annually beginning July 1	g.1. Completed/Not Completed g.2. # inspections	
		h. Conduct Follow Up Activities	Annually beginning July 1	f.1. Completed/Not Completed f.2. # problems corrected	
		i. Analyze Monitoring Data	Annually beginning July 1	Completed/Not Completed	
		j. Identify Additional Measures to Achieve TMDL WLA	Annually beginning July 1	j.1. Completed/Not Completed j.2. # and type additional measures	
		k. Implement Water Quality Recovery Plans	Annually beginning July 1	Completed/Not Completed	
		l. Inspect Privately Owned Lift Stations	Annually beginning July 1	Completed/Not Completed # inspections	
		m. Assess for Negative Water Quality Impacts	Annually beginning July 1	m.1. Completed/Not Completed m.2. # problems detected/corrected	
#37 IW-4	Assess Effectiveness of Water Quality Recovery Plans for TMDLs				
	Assessing the effectiveness of BMPs at addressing TMDL waters.	a. Annual Report	Annually beginning July 1	Completed/Not Completed	Completed & Permit Compliance Achieved
		b. Annual Assessment	Annually beginning July 1	Completed/Not Completed	
		c. Discuss and Facilitate Work Plan Changes	c. Continuously Permit Years 1-5	Completed/Not Completed	

Total Maximum Daily Load (TMDL) Program (Permit Ref. Section H; Part III Sections A,B,C,D; Part IV Sections B,F): Implement a program to reduce levels of the pollutant of concern in accordance with approved Waste Load Allocation (WLAs) assigned to stormwater in an approved TMDL.					
BMP # & Work Plan Code	**A**	**B**	**C**	**D**	**E**
	Description of BMP	**Measurable Goal(s)**	**Schedule for Implementation**	**Annual Reporting Metric**	**Annual Reporting Status**
		d. Implement improvements in the next fiscal year.	Annually beginning July 1	d.1. Completed/Not Completed d.2. List of improvements	AR#: 87380, 97303 See Section 4, 5, and 6 of this document

2.2 Description of Existing BMPs and Their Effectiveness

The pollutants of concern for the TMDL watersheds in Mecklenburg County are dissolved oxygen, fecal coliform bacteria, turbidity, and chlorophyll-a, which is associated with elevated nutrients (see Table 1). CMSWS has identified the existing BMPs described in the following subsections as effective for addressing these pollutants of concern. These subsections include a description of the specific activities completed during FY2025 through the implementation of these BMPs in the Phase II jurisdictions. Appendix A provides all data collected through the implementation of these activities. The data contained in Appendix A is broken out in the following applicable subsections. For data applicable to Phase I, contact Charlotte Storm Water Services. Details regarding BMP implementation are provided in the SWMP.

2.2.1 Public Education & Outreach (Section 3 of SWMP)

Public education and outreach activities work to improve impaired water quality by informing the community of the impacts of the pollutants of concern on the quality and usability of water bodies and the steps that the public can take to reduce these pollutants. During FY2025, the following existing public education and outreach activities were implemented in Mecklenburg County, including all the TMDL watersheds:

1. Utility Bill Inserts
2. Brochures, Environmental Notices and Newsletters
3. Print Ads
4. Media Campaign
5. Social Media
6. Workshops and Video Taped Messages
7. Web Pages
8. School and other Educational Presentations as well as Public Events
9. Storm Water Helpline

Table 3 below provides data related to public education and outreach activities completed in the TMDL watersheds in Mecklenburg County's Phase II jurisdictions during FY2025.

Table 3: FY2025 Public Education and Outreach Activities in TMDL Watersheds

# Description	Goose	Irwin	Lake Wylie	Little Sugar	Long	McAlpine	McKee	Rocky River	Steele	Sugar	Totals
# school educational presentations conducted	0	1	0	17	0	26	0	1	0	0	**45**
# of school students educated at presentations	0	12	0	406	0	781	0	10	0	0	**1209**
# of public educational presentations conducted	0	1	1	20	0	27	0	1	0	0	**50**
# of persons educated at public presentations	0	644	14	204	0	0	0	0	0	30	**892**
# of public events attended	0	17	1	5	1	1	0	1	1	1	**28**
# of persons interacted with at public events	0	375	300	1642	363	14	0	400	150	250	**3494**
# of environmental notices/educational brochures issued	0	100	7	142	38	133	0	0	6	42	**468**
# of pet waste deposits marked	0	0	0	0	0	0	0	0	0	0	**0**
# of sites where the Pet Waste Campaign occurred	0	0	0	1	0	0	0	1	0	0	**2**
# persons sent stormwater program related utility bill inserts	12,656	217,168	96,456	430,864	131,360	452,656	35,408	91,064	77,664	94,280	**1,639,576**

During FY2025, the BMPs implemented for the Public Education and Outreach Program were evaluated and found to be effective at reducing non-point source pollutant loading to the receiving streams of TMDL watersheds to the maximum extent practicable. Therefore, these BMPs will continue to be used in FY2026 to comply with TMDL requirements.

2.2.2 Public Involvement and Participation (Section 4 of SWMP)

Public Involvement and Participation Program activities work to improve impaired water quality by involving the public in efforts to reduce the pollutants of concern. During FY2025, the following existing Public Involvement and Participation Program activities were implemented in Mecklenburg County, including all the TMDL watersheds:

1. Adopt-A-Stream
2. Annual Surface Water Clean Up Event (The Big Spring Clean)
3. Volunteer Monitoring
4. Storm Drain Marking

Table 4 below provides data relating to Public Involvement and Participation Program activities completed in the TMDL watersheds in Mecklenburg County's Phase II jurisdictions during FY2025.

Table 4: FY2025 Public Involvement & Participation Activities in TMDL Watersheds

# Description	Goose	Irwin	Lake Wylie	Little Sugar	Long	McAlpine	McKee	Rocky River	Steele	Sugar	Totals
# Storm Drains Marked	140	55	6	261	20	79	0	149	34	0	**744**
# adopt-a-stream miles cleaned	0	9	2.28	24.67	4	33.55	1	58	3	10.53	**145**
Lbs. adopt-a-stream clean-up trash/debris collected	0	5,227	260	11,036	321	2,963	830	6.7	128	11,047	**30,989**

During FY2025, the BMPs implemented for the Public Involvement and Participation Program were evaluated and found to be effective at reducing non-point source pollutant loading to the receiving streams of TMDL watersheds to the maximum extent practicable. Therefore, these BMPs will continue to be used in FY2026 to comply with TMDL requirements.

2.2.3 Illicit Discharge Detection and Elimination (IDDE) (Section 5 of SWMP)

Illicit Discharge Detection and Elimination (IDDE) Program activities work to improve impaired water quality by identifying and eliminating sources of the pollutants of concern. During FY2025, the following existing IDDE Program activities were implemented in Mecklenburg County, including the TMDL watersheds:

1. Responding to Citizen Requests for Service
2. Enforcement of Pollution Control Ordinances
3. Conducting Facility Inspections
4. Performing Water Quality Monitoring Activities
5. Implementing the Illicit Discharge Elimination Program (IDEP)
6. Conducting Stream Walks & Dry Weather Flow Investigations

Table 5 below provides data relating to IDDE Program activities completed in the TMDL watersheds in Mecklenburg County's Phase II jurisdictions during FY2025.

Table 5: FY2025 IDDE Activities in TMDL Watersheds

# Description	Goose	Irwin	Lake Wylie	Little Sugar	Long	McAlpine	McKee	Rocky River	Steele	Sugar	Totals
# Service Requests responded to	1	101	16	148	33	116	1	4	17	40	**477**
# outfalls inspected while responding to service requests	1	25	7	39	7	27	0	1	7	11	**125**
# major outfalls inspected while responding to service requests	0	45	0	28	1	13	0	1	2	5	**95**
# dry weather flows sampled while responding to service requests	0	1	0	2	0	1	0	0	0	0	**4**
# educational Brochures/Pamphlets/Env. Notices distributed while responding to service requests	0	4	1	5	2	7	0	1	0	3	**23**
# of stream miles assessed	0	0	0	12.26	0	0	0	14.44	0	0	**26.7**
# outfalls inspected under stream walk program	0	0	0	74	0	0	0	26	0	0	**100**
# major outfalls inspected under stream walk program	0	0	0	6	0	0	0	7	0	0	**13**
# dry weather flows sampled under stream walk program	0	0	0	0	0	0	0	2	0	0	**2**
# outfalls inspected under IDEP program	0	0	0	33	0	2	0	1	0	0	**36**
# major outfalls inspected under IDEP program	0	0	0	16	0	0	0	0	0	0	**16**
# dry weather flows sampled under IDEP program	0	0	0	0	0	0	0	0	0	0	**0**
# pollution problems/issues discovered through under IDEP program	0	10	0	18	0	8	0	1	1	1	**39**
# of failing septic systems discovered	0	1	1	0	3	10	1	0	0	0	**16**
# of failing septic systems repaired	0	1	1	0	1	2	1	0	0	0	**6**
# of failing septic systems connected to municipal sewer	0	0	0	0	2	8	0	0	0	0	**10**

During FY2025, the BMPs implemented for the Illicit Discharge Detection and Elimination Program were evaluated and found to be effective at reducing non-point source pollutant loading to the receiving streams of TMDL watersheds to the maximum extent practicable. Therefore, these BMPs will continue to be used in FY2026 to comply with TMDL requirements.

2.2.4 Charlotte Water Program

The City's water and sewer utility department (Charlotte Water) maintains a public education program focused on keeping food related fats, oils, and grease from being discharged to the sanitary sewer system in the Phase I and Phase II jurisdictions. In recent years, the focus of this program has been expanded to include wipes and paper towels that can be flushed down the toilet. The program is referred to as "Flow Free." This effort helps to reduce clogging and blockages in the system and prevent SSOs, which can introduce fecal coliform and other pollutants to water bodies. The program has proven to be effective and will continue to be implemented in FY2026.

2.2.5 Sewer Use Ordinance

Implementation and enforcement of the Sewer Use Ordinance by Charlotte Water in the Phase I and Phase II jurisdictions provides the legal mechanism to ensure proper use and connection to the sanitary sewer system and correction of problems and illegal practices. Ensuring that the system is used properly will help prevent leaks and overflows as well as upsets at wastewater treatment plants thus helping control the TMDL pollutants of concern. This ordinance has proven to be effective and will continue to be implemented in FY2026.

2.2.6 Sanitary Sewer System Inspections and Maintenance

Charlotte Water conducts inspections and maintenance of various components of the sanitary sewer system in the Phase I and Phase II jurisdictions to ensure proper operating function and prevent leaks and overflows. These include food service grease trap inspections, commercial oil/water separator inspections, sanitary sewer line root control and cleaning, sewer line right-of-way clearing and maintenance, and lift station inspection and maintenance. Ensuring that the system is used properly, inspected, and maintained helps prevent leaks and overflows as well as upsets at wastewater treatment plants thus helping control the TMDL pollutants of concern. These inspection and maintenance efforts have proven to be effective and will continue to be implemented in FY2026.

2.2.7 SSO Rapid Response

Charlotte Water maintains a rapid response program designed to quickly and efficiently respond to sanitary sewer overflows, thus reducing the discharge of pollutants to the MEP and helping control the TMDL pollutants of concern in the Phase I and Phase II jurisdictions. These programs have proven to be effective and will continue to be implemented in FY2026.

2.2.8 Construction Site Runoff Control (Section 6 of SWMP)

The following existing construction site storm water runoff control activities have been identified as suitable for addressing the pollutants of concern in the TMDL watersheds. These BMPs address impaired waters by reducing discharges of pollutants of concern from construction sites. During FY2025, these BMPs were effectively implemented in the TMDL watersheds in Charlotte-Mecklenburg.

1. Erosion Control Plan Reviews
2. Erosion Control Inspections

3. Enforcement of Erosion Control Ordinance – Enhanced erosion control measures are required in all TMDL watersheds.
4. Erosion Control Hotline
5. Erosion Control Education
6. Erosion Control at Government Projects

Table 6 below provides data relating to Construction Site Runoff Control Program activities completed in the TMDL watersheds in Mecklenburg County's Phase II jurisdictions during FY2025.

Table 6: FY2025 Construction Site Runoff Control Activities in TMDL Watersheds

# Description	Goose	Irwin	Lake Wylie	Little Sugar	Long	McAlpine	McKee	Rocky River	Steele	Sugar	Totals
# Erosion Control Inspections	82	0	0	44	0	240	0	240	0	215	**821**
# NOVs Issued	0	0	0	0	0	0	0	1	0	0	**1**

During FY2025, the BMPs implemented for the Construction Site Runoff Control Program were evaluated and found to be effective at reducing non-point source pollutant loading to the receiving streams of TMDL watersheds to the maximum extent practicable. Therefore, these BMPs will continue to be used in FY2026 to comply with TMDL requirements.

2.2.9 Post-Construction Site Runoff Control (Section 7 of SWMP)

The following existing post-construction site runoff control activities have been identified as suitable for addressing the pollutants of concern in the TMDL watersheds. These BMPs address impaired waters by reducing discharges of pollutants of concern from new development and redevelopment projects. During FY2025, these BMPs were effectively implemented in the Phase I and Phase II jurisdictions in Mecklenburg County.

1. Enforcement of the Post-Construction Storm Water Ordinances
2. Compliance by Co-Permittees with Post-Construction Ordinance Requirements
3. Ensuring Compliance with Requirements for Non-Structural BMPs
4. Ensuring Compliance with Requirements for Structural BMPs
5. Ensuring Compliance with Natural Resource Protection
6. Ensuring Compliance with Open Space Protection
7. Ensuring Compliance with Buffer Requirements
8. Ensuring Compliance with Redevelopment
9. Ensuring Compliance with Green Infrastructure Practices
10. Ensuring Compliance with Operation and Maintenance Requirements

Table 7 below provides data relating to Post-Construction Site Runoff Control Program activities completed in the TMDL watersheds in Mecklenburg County's Phase II jurisdictions during FY2025.

Table 7: FY2025 Post-Construction Site Runoff Control Activities in TMDL Watersheds

# Description	Goose	Irwin	Lake Wylie	Little Sugar	Long	McAlpine	McKee	Rocky River	Steele	Sugar	Totals
# BMP Inspections	38	185	237	523	230	514	22	57	91	218	**2115**
# NOVs Issued	0	6	4	9	5	6	0	1	1	2	**34**
# Corrective Notice Issued	6	25	13	45	52	33	0	17	4	21	**216**

During FY2025, the BMPs implemented for the Post-Construction Site Runoff Control Program were evaluated and found to be effective at reducing non-point source pollutant loading to the receiving streams of TMDL watersheds to the maximum extent practicable. Therefore, these BMPs will continue to be used in FY2026 to comply with TMDL requirements.

2.2.10 Pollution Prevention and Good Housekeeping (Section 8 of SWMP)

The following existing pollution prevention and good housekeeping activities for municipally owned/operated facilities have been identified as suitable for addressing the pollutants of concern in the TMDL watersheds. These BMPs address impaired waters by reducing discharges of pollutants of concern from municipal facilities and operations. During FY2025, these BMPs were effectively implemented in the Phase I and Phase II jurisdictions in Mecklenburg County.

1. Maintaining an Inventory of Municipal Operations
2. Providing Employee Training
3. Implementing Operation and Maintenance Programs, Spill Prevention and Spill Response
4. Minimizing Pollution from Municipally Owned Streets, Roads and Parking Lots
5. Implementing Operation and Maintenance of Municipally Owned Storm Sewer System
6. Management of Pesticide, Herbicide and Fertilizer Application
7. Preventing or Minimizing Pollution from Vehicle and Equipment Cleaning Areas
8. Implementing Proper Waste Disposal Practices
9. Completing Flood Management Projects

Table 8 below provides data relating to Pollution Prevention and Good Housekeeping Program activities completed in the TMDL watersheds in Mecklenburg County's Phase II jurisdictions during FY2025.

Table 8: FY2025 Pollution Prevention & Good Housekeeping Activities in TMDL Watersheds

# Description	Goose	Irwin	Lake Wylie	Little Sugar	Long	McAlpine	McKee	Rocky River	Steele	Sugar	Totals
# municipal facilities inspected	0	17	0	16	2	7	0	0	0	7	**49**

During FY2025, the BMPs implemented for the Pollution Prevention and Good Housekeeping Program were evaluated and found to be effective at reducing non-point source pollutant loading to the receiving streams of TMDL watersheds to the maximum extent practicable. Therefore, these BMPs will continue to be used in FY2026 to comply with TMDL requirements.

Section 3: Current TMDL Monitoring Strategies

CMSWS conducts fixed interval stream monitoring every month at 33 locations across the county in the Phase I and Phase II jurisdictions (see Figure 2). Many of these locations are within, or immediately downstream of, the TMDL watersheds that are shown in Figure 1. At each site, samples are collected and analyzed for 16 water quality parameters as follows: ammonia-nitrogen, fecal coliform bacteria, total Kjeldahl nitrogen, nitrate/nitrite, total suspended solids, total phosphorus, E. coli, turbidity, suspended sediment, magnesium, calcium, and copper (dissolved). Lead (dissolved), chromium (total), nickel (total) and zinc (dissolved) are collected in the first month of each quarter. CMSWS also performs annual or bi-annual monitoring for benthic macroinvertebrates in the Phase I and Phase II jurisdictions at the 33 stream monitoring locations shown in Figure 2.

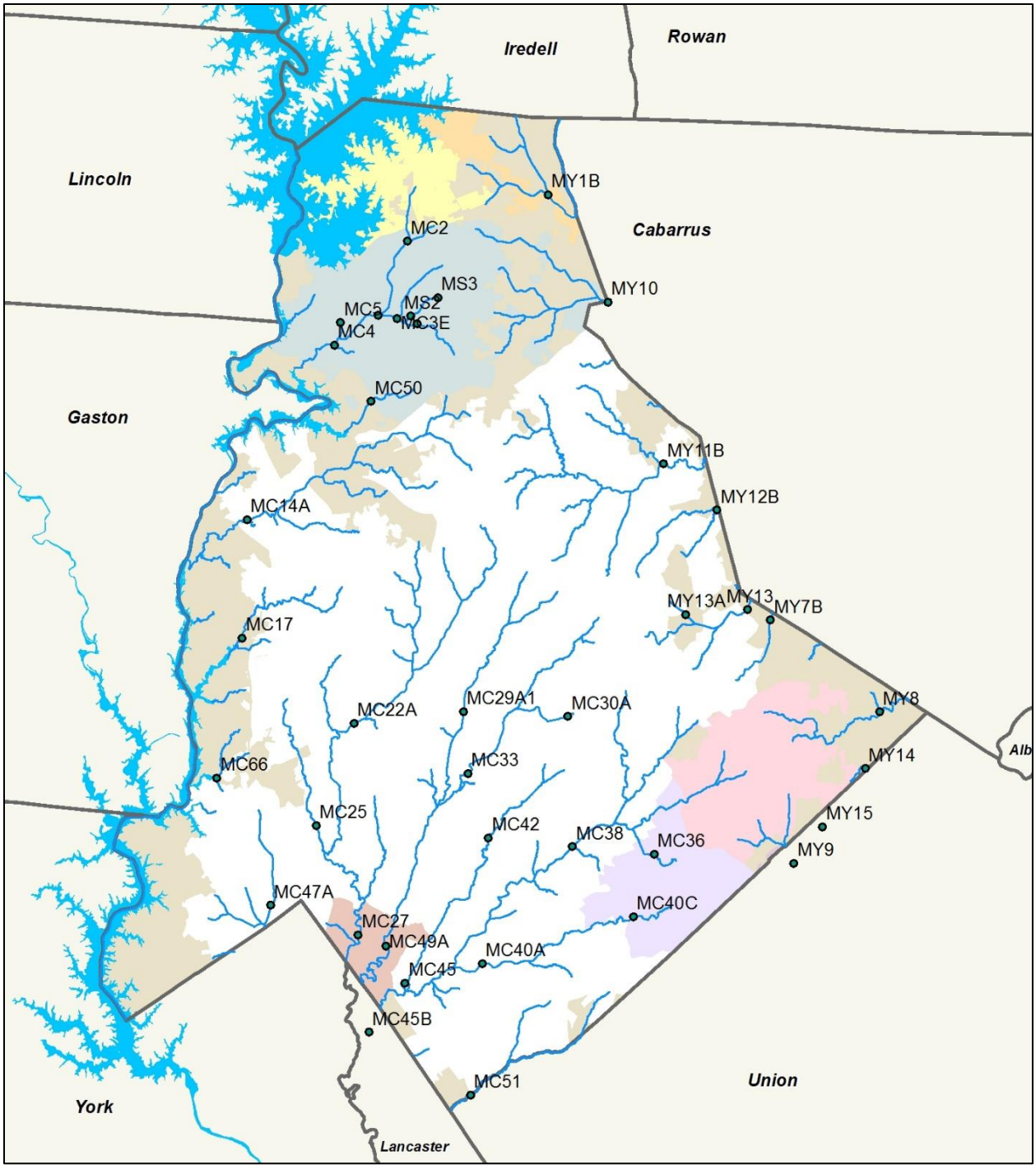


Figure 2: Water Quality Monitoring Locations in Mecklenburg County

CMSWS maintains a Continuous Monitoring and Alert Notification Network or CMANN at 34 locations, including 27 of the fixed interval monitoring locations shown in Figure 2. The CMANN network collects data hourly for turbidity, dissolved oxygen, temperature, conductivity, and pH. CMSWS conducts routine lake monitoring at 27 locations on Lake Norman, Mountain Island Lake and Lake Wylie, including seven locations in the TMDL area identified in Figure 1 for Lake Wylie. This monitoring is performed every other month for the following 12

parameters: secchi depth, temperature, dissolved oxygen, conductivity, pH, fecal coliform bacteria, ammonia nitrogen, nitrate + nitrite, total Kjeldahl nitrogen, total phosphorus, turbidity, and Chlorophyll-a. Monitoring for the following 11 parameters is performed twice a year: copper, chromium, lead, zinc, mercury, manganese, arsenic, cadmium, nickel, selenium, and iron. Additionally, semi-annual monitoring is performed at 10 locations in eight coves on Lake Wylie to monitor potential impacts associated with a long-term residential development project. These semi-annual samples are analyzed for the same 12 parameters measured during bi-monthly routine monitoring. All monitoring results that exceed threshold values are referred for follow-up under the Illicit Discharge Detection and Elimination (IDDE) Program. Long-term assessment for trends is performed on a non-fixed frequency (as needed). Provided below is an assessment of the data collected for the identified parameters in the three (3) TMDL watersheds where Mecklenburg County is assigned as the lead, including the Rocky River and Goose Creek impaired for fecal coliform bacteria and Lake Wylie impaired for nutrients (see Table 1). For data applicable to the other TMDL watersheds in the Phase I jurisdiction, contact Charlotte Storm Water Services. The discussions in the following subsections are limited to data collected up to the end of 2024 as the Federal TMDL Program operates on a calendar year basis as opposed to the fiscal year basis utilized by CMSWS.

3.1 Rocky River Fecal Coliform Monitoring and Land Use Evaluation

A 9.2 mile segment of the Rocky River in Mecklenburg County (AU Number 13-17a) is subject to a fecal coliform TMDL with a WLA assigned to storm water that was approved on September 19, 2002. According to the final NC 2023 305(b) report, the Rocky River is currently not meeting the fecal coliform criteria. Mecklenburg County has been assigned responsibility for this TMDL on behalf of the Phase I and Phase II jurisdictions in Charlotte-Mecklenburg. Phase II Permit conditions required that a monitoring plan be developed for the Fecal Coliform TMDL in the Rocky River Watershed unless a waiver is obtained from NCDEQ. Such a waiver was obtained on June 26, 2014, based on the condition that Mecklenburg County continue to evaluate the land use and development within the watershed on an annual basis and if additional storm water infrastructure is installed or higher intensity land uses are constructed a Monitoring Plan would be reconsidered. In response to this condition, CMSWS has obtained impervious area and land use data from James Scanlon in the County GIS Department back to 2011 and continues to update this data annually (see the table below). Between 2023 and 2024, the residential impervious cover increased 0.16 acres to a total of 16.5 acres. However, the commercial impervious cover remained unchanged at 0.33 acres during the same time. The total amount of impervious cover in the watershed (residential + commercial) is approximately 16.99 acres as of 2023. Compared to the total area of the watershed at 747 acres, the amount of impervious cover is at 2.27%, which is an increase of 0.35% since 2011 when the impervious cover was at 14.55 acres or 1.95% of the watershed. An additional stormwater outfall was added in 2023 for a total of six (6), which is an increase of 500% since 2011 when there was only one (1) outfall in the watershed. Although changes have definitely occurred in the watershed since 2011, they have not been significant enough to warrant the establishment of a Monitoring Plan. The Rocky River watershed continues to be dominated by scattered single family residential and minimal commercial development with no significant nonpoint sources of pollution. It is highly unlikely that water quality monitoring would yield any significant data. Most of the pollution sources are originating in Iredell County.

Table 9: Annual Analysis of the Rocky River Watershed for the Monitoring Plan

Calendar Year	Residential Impervious Cover (acres)	Commercial Impervious Cover (acres)	Total Impervious Cover (acres)	Storm Water Outfalls (number)
2011	14.22	0.33	14.55	1
2012	14.22	0.33	14.55	1
2013	14.55	0.33	14.88	3
2014	14.88	0.33	15.21	3
2015	15	0.33	15.33	4
2016	15.1	0.33	15.43	4
2017	15.2	0.33	15.53	4
2018	15.69	0.33	16.02	4
2019	15.72	0.33	16.05	4
2020	15.72	0.33	16.05	4
2021	16.03	0.33	16.36	4
2022	16.09	0.33	16.42	4
2023	16.5	0.33	16.83	5
2024	16.66	0.33	16.99	6
# Increase from 2011	**2.44**	**0.00**	**2.44**	**5**
% Increase from 2011	**17.2%**	**0.00%**	**16.7%**	**500%**

Compliance monitoring for the Rocky River TMDL is performed by NCDEQ at its routine monitoring site # Q7330000, which is located at the bridge crossing over the Rocky River for Davidson Concord Road at the boundary between Mecklenburg and Cabarrus Counties. CMSWS does not perform routine monitoring at this location; therefore, it relies on the data collected by NCDEQ to assess TMDL compliance efforts. In August 2025, CMSWS received 2023 fecal coliform data collected at Q7330000 from David Huffman, the AMS Coordinator, NC Division of Water Resources. An analysis of this data revealed a geometric mean fecal coliform concentration of 367.21 CFU/100 ml., which is below the State standard and represents a 23% decrease from the geometric mean concentration of 478.02 CFU/100 ml observed in calendar year 2023. Out of the 10 samples collected in 2024, 7 (70%) exhibited concentrations below 400 CFU/100 ml. The remaining 3 samples (30%) exceeded the 400 CFU/100 ml threshold. The North Carolina Administrative Code (NCAC) 02B Fresh Surface Water Quality Standards dictate that fecal coliform "shall not exceed a geometric mean of 200 (CFU)/100 ml…nor exceed 400 [CFU]/100 ml in more than 20 percent of the samples examined…". Table 10 along with Figures 3 and 4 present data collected at Q7330000 indicating very little fluctuation in the mean fecal coliform concentration over the past several years, but significant improvement since the 1970s.

Table 10: NCDWQ Fecal Coliform Data for Site Q7330000 on the Rocky River

Year	Geometric Mean	# Compliant	# Non-Compliant	Total Samples	% Compliant	% Non-Compliant
2017	488.70	5	7	12	42%	58%

Year	Geometric Mean	# Compliant	# Non-Compliant	Total Samples	% Compliant	% Non-Compliant
2018	663.46	5	7	12	42%	58%
2019	357.17	8	4	12	67%	33%
2020	432.40	3	3	6	50%	50%
2021	491.22	7	5	12	58%	42%
2022	602.704	3	8	11	27%	73%
2023	478.023	2	3	5	40%	60%
2024	367.21	7	3	10	70%	30%

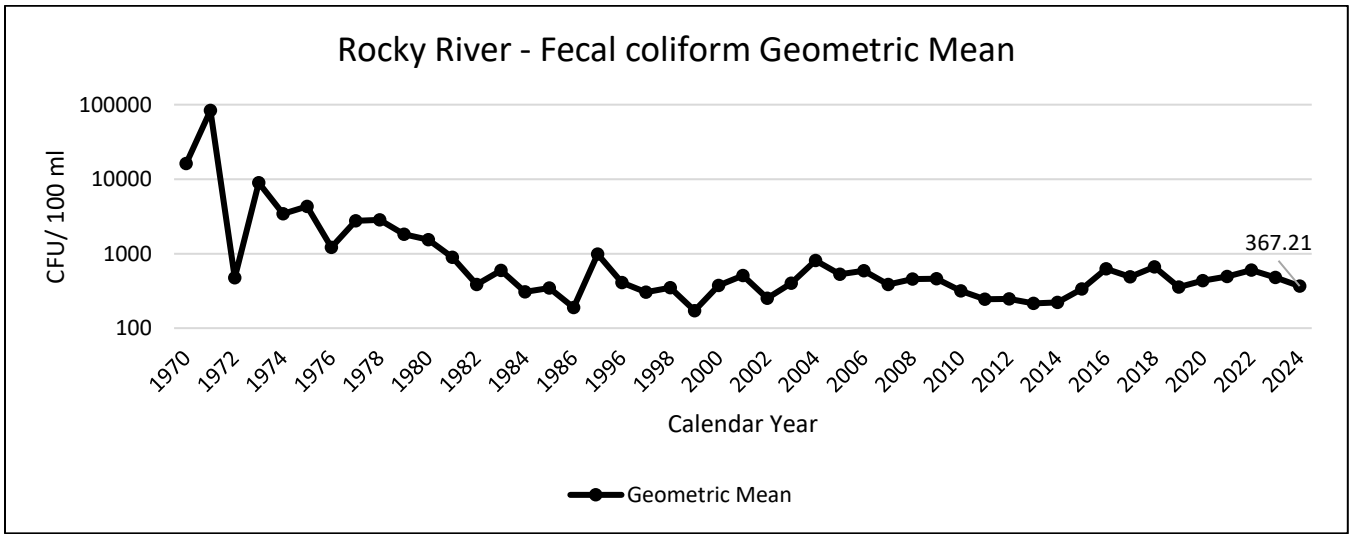


Figure 3: Geometric Mean for Fecal coliform on Rocky River Site Q7330000

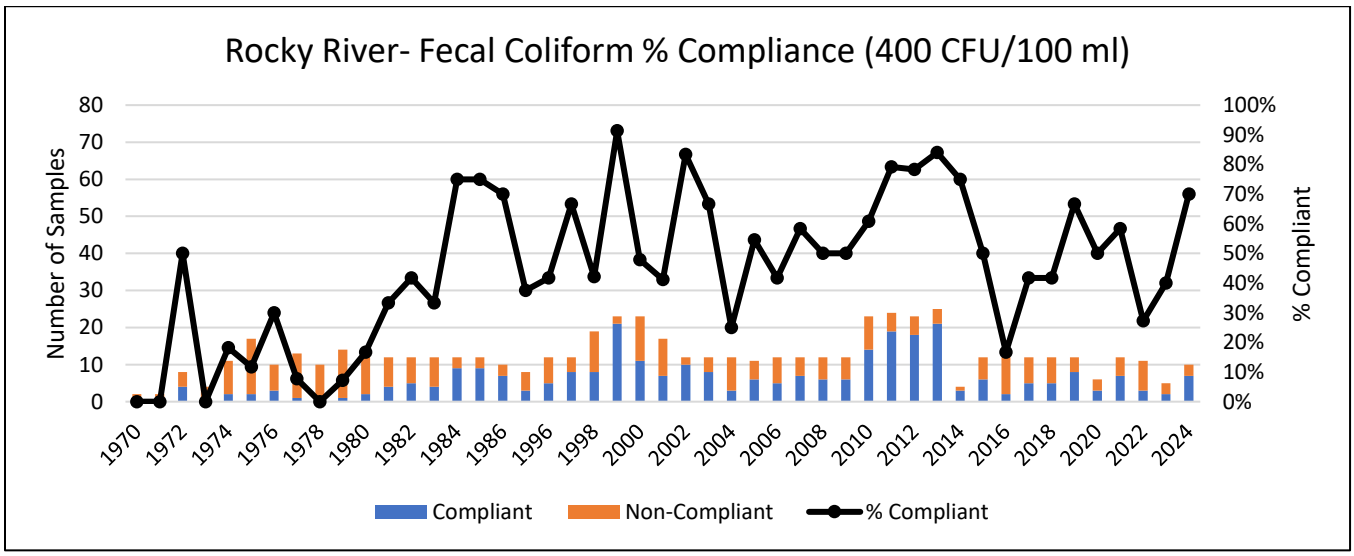


Figure 4: Compliance with Fecal coliform Standard on Rocky River Site Q7330000

3.2 Goose Creek Fecal Coliform Monitoring

As identified in Table 1, a section of Goose Creek in Mecklenburg County (AU Number 13-17-18a) is subject to a fecal coliform TMDL with a WLA assigned to storm water that was approved

on July 8, 2005. According to the NC final 2022 305(b) report, fecal coliform concentrations in Goose Creek are currently not meeting state water quality standards. Mecklenburg County has been assigned responsibility for compliance with this TMDL on behalf of the Phase I and Phase II jurisdictions in Charlotte-Mecklenburg. CMSWS maintains a fixed interval monitoring site (MY9) located at the Stevens Mill Road bridge crossing of Goose Creek in Union County. In calendar year 2024, fecal coliform counts at this station ranged from 188 to 13000 CFU/100 ml with a geometric mean of 616.61 CFU/100 ml., which represents a 30% increase from the geometric mean concentration of 474.62 CFU/100 ml. observed in calendar year 2023. Three (3) of the 13 samples collected in 2024 (23%) exhibited concentrations at or below 400 CFU/100 ml. The remaining 10 samples (77%) exhibited concentrations above this threshold. No pollution sources were identified as a result of the water quality monitoring in the Goose Creek TMDL watershed in 2024. Table 11 along with Figures 5 and 6 present data collected at MY9 indicating minimal change.

Table 11: CMSWS Fecal coliform Data for MY9 on the Goose Creek

Year	Geometric Mean	# Compliant	# Non-Compliant	Total Samples	% Compliant	% Non-Compliant
2017	607.12	10	9	19	53%	47%
2018	678.67	11	8	19	58%	42%
2019	427.19	11	8	19	58%	42%
2020	404.11	8	7	15	53%	47%
2021	513.89	8	10	18	44%	56%
2022	372.08	11	6	17	65%	35%
2023	474.62	7	6	13	54%	46%
2024	616.61	3	10	13	23%	77%

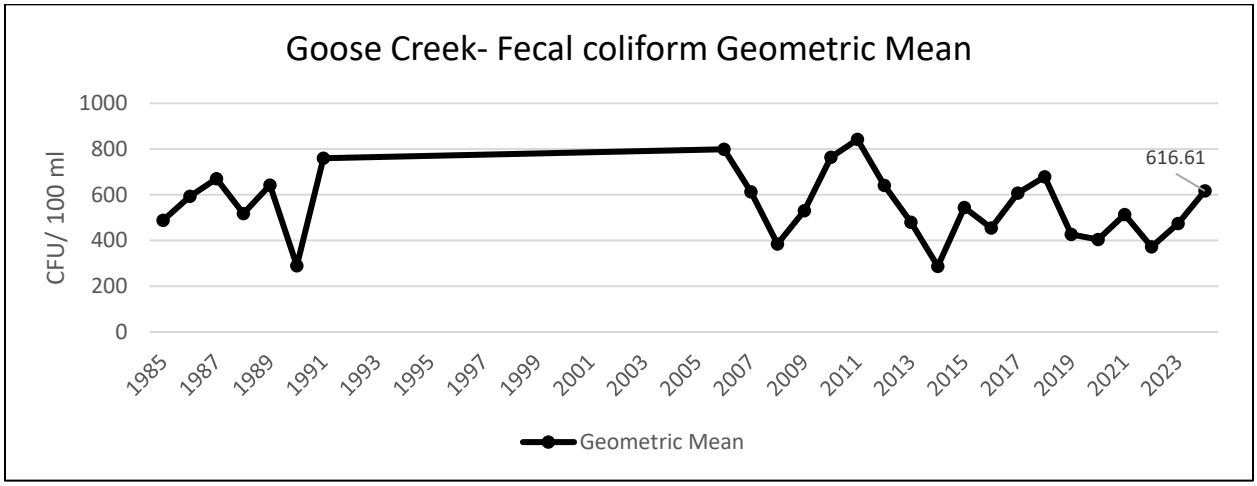


Figure 5: Geometric mean for Fecal coliform on Goose Creek at MY9

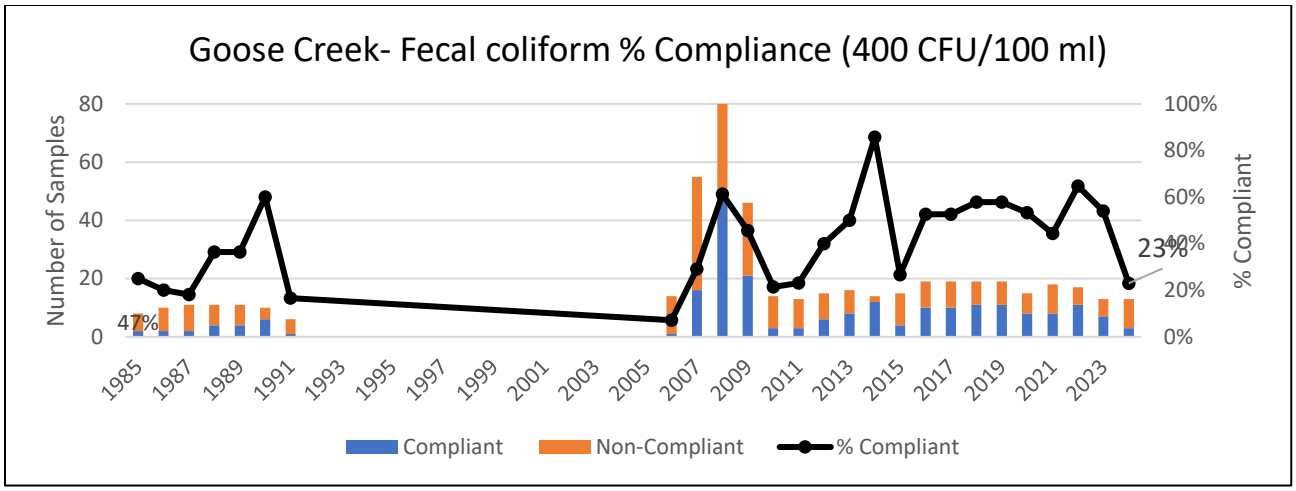


Figure 6: Compliance with Fecal Coliform standard on Goose Creek at MY9

3.3 Lake Wylie Chlorophyll-A Monitoring

Two (2) sections of Lake Wylie in Mecklenburg County (AU Numbers 11-(122) and 11-(123.5)a were previously subject to a nutrient (nitrogen and phosphorus) TMDL that was approved on February 5, 1996. However, according to the 2022 Integrated Report and the Draft 2024 Integrated Report, these sections are included in Category 1 indicating they are meeting the criteria without any acknowledgement of a TMDL, which would be Category 1t. Chlorophyl-a concentrations can be used as a surrogate for nutrients in water because they can indicate phytoplankton abundance and biomass, which can be related to nutrient loads. During 2024, CMSWS collected 111 Chlorophyll-a samples at 20 different monitoring locations in Lake Wylie. An analysis of that data shows 100% compliance for all samples to the Chlorophyll-a standard of 40 µg/l as illustrated in Figures 7 and 8 below. Figure 8 shows the lowest concentrations of Chlorophyll-a in the main stem and tributaries of the lake with higher concentrations in the coves, which is expected.

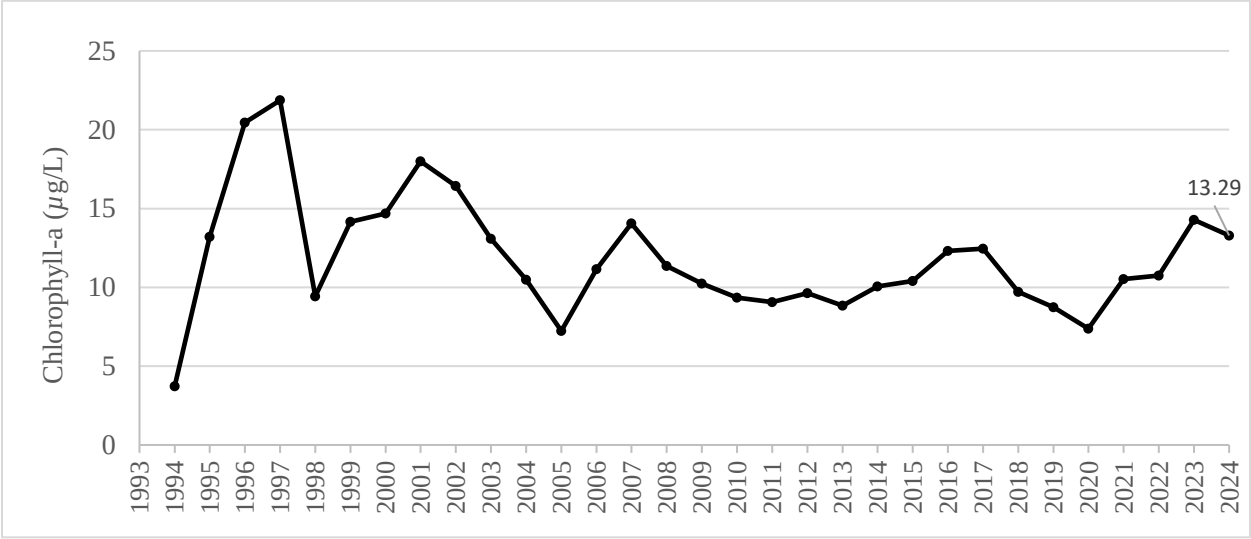


Figure 7: Annual average chlorophyll-a concentration on Lake Wylie

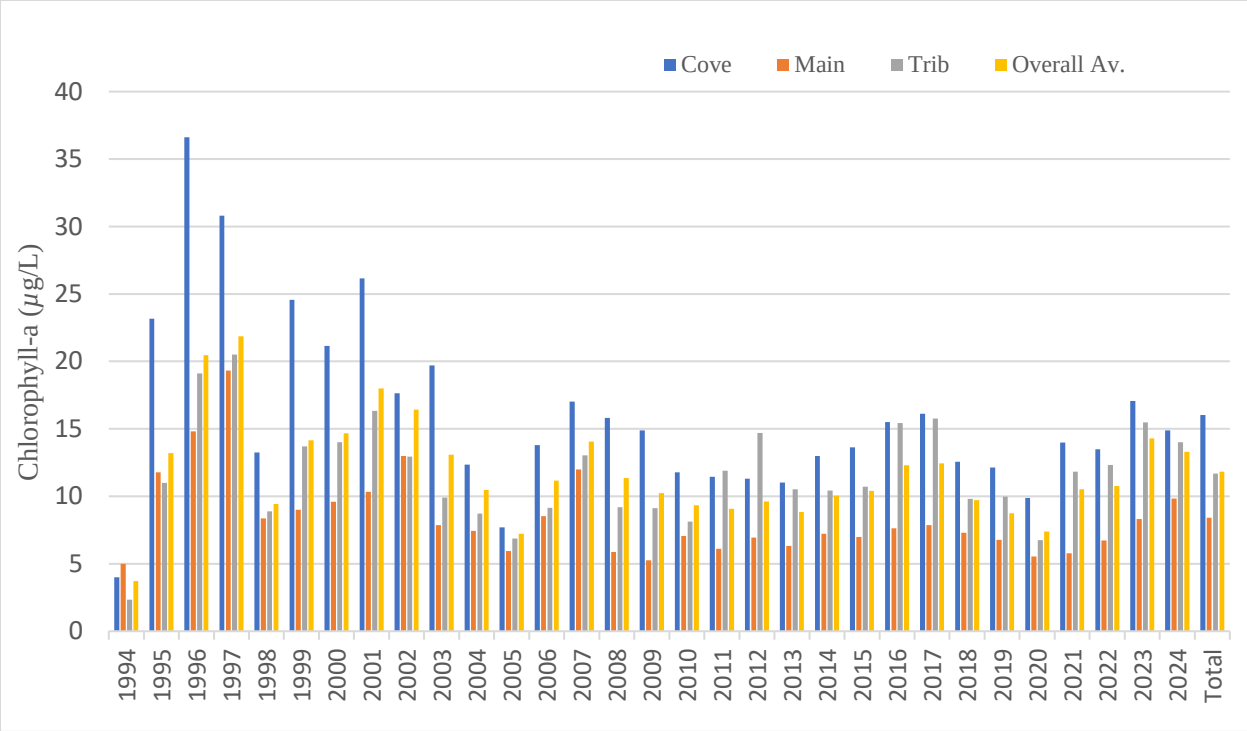


Figure 8: Annual average chlorophyll-a on Lake Wylie Coves, Main Stem and Tributaries

3.4 Mercury Monitoring Statewide

As stated in sub-section 9.5.3 of the Storm Water Plan, the State did not include an MS4 NPDES WLA for mercury in their statewide TMDL. Therefore, this document does not discuss compliance measures or data analysis for this TMDL.

3.5 Effectiveness of BMPs Based on Data Analysis

We continue to see a decline in the geometric mean fecal coliform counts at the Rocky River monitoring station in 2024. The average counts decreased by 23% from 2023 to 2024 and the percent compliance with the standard increased by 30%. In Goose Creek, the geometric mean fecal coliform count increased by 30% between 2023 and 2024. The percentage of samples complying with applicable fecal coliform standards decreased by 23% over the same time. Although compliance with the 400 CFU/100 ml standard was low in 2024, the fecal coliform counts were only slightly higher than the standard in ambient conditions. BMP implementation includes additional quarterly samples from upstream tributaries to identify hotspots for pollution reduction. Overall, fecal coliform concentrations and compliance percentages have moderately improved over the past five (5) years since Mecklenburg County increased its TMDL compliance efforts. The existing BMPs for both the Rocky River and Goose Creek watersheds appear to be effective at identifying and eliminating pollution sources in compliance with TMDL requirements. Therefore, these BMPs, along with the additional BMPs identified below, will continue to be implemented in FY2026.

Based on the above-described assessments of data collected in the TMDL watersheds, a general improvement in Chlorophyll-a has been observed in Lake Wylie over the past several decades.

In 2024, none of the Chlorophyll-a samples collected from Lake Wylie by CMSWS exceeded the state standard of 40 µg/L. Therefore, it is determined that no additional BMP measures will be implemented in the Lake Wylie TMDL watershed other than those currently implemented countywide as part of the SWMP.

Section 4: Additional BMP Measures

As required by Permit No. NCS000395, CMSWS is continuing to evaluate the effectiveness of the existing structural and/or non-structural BMPs described in the previous sections and identify and implement additional BMPs as necessary to effectively address impaired waters. The following subsections describe the additional BMPs implemented in FY2025, as well as those planned for implementation in FY2026 along with an implementation timeline, and a brief explanation as to how these additional BMPs will address impaired waters.

4.1 Additional BMPs Implemented in FY2025

During FY2025, the following additional activities were completed to reduce fecal coliform bacteria levels and enhance water quality in the Rocky River watershed:

1. NCDEQ, Division of Water Quality continued to conduct water quality monitoring, including sampling for fecal coliform bacteria, at site Q7330000 on the Rocky River. Monitoring results will be analyzed and described in the FY2025 annual report.
2. On September 27, 2024, the five (5) major outfalls in the Rocky River TMDL watershed in Mecklenburg County were inspected. No dry weather flows or pollution sources were detected.
3. During FY2025, there were three (3) sewer pump stations in operation in the Goose Creek and none in the Rocky River TMDL watersheds. The Goose Creek pump stations were inspected as follows: Philadelphia Presbyterian Church Lift Station on May 29, 2025 (Activity Report #96039), Mint Lake Village Lift Station on May 29, 2025 (Activity Report #96040), and Bain Elementary School Lift Station on June 4, 2025 (Activity Report #96041). All pumps at the lift stations were present and operable, the wet wells were free of excessive debris, and all floats/controls for pumps were operable along with their corresponding audio and visual alarms. In addition, during the inspection it was observed that the facilities were properly secured with a 24-hour notification signage posted and that the telemetry systems that provide automated notification when a pump failure occurs were operable.
4. Routine fixed interval monitoring was conducted monthly at site MY9 (Goose Creek – Stevens Mill Road) for 16 parameters including fecal coliform and E. coli. Monitoring results are described in Section 3.2.
5. Quarterly fecal coliform samples were collected at 3 sites upstream of MY9 to identify and track pollution sources in the watershed.

4.2 Additional BMPs to be Implemented in FY2026

During FY2026, the following additional BMPs will be implemented in the Rocky River and Goose Creek watersheds to reduce fecal coliform bacteria levels and enhance water quality:

1. By June 30, 2026, CMSWS will complete a review of Health Department records to determine where failed septic systems have been identified in both the Rocky River and Goose Creek TMDL watersheds. Follow up inspections and monitoring will be performed as necessary to ensure the elimination of sources of fecal coliform bacteria associated with failed septic systems thereby addressing impaired waters.
2. By June 30, 2026, major outfalls will be inspected in the Rocky River TMDL watershed. Dry weather flows will be identified, and pollution sources eliminated thereby addressing impaired waters.
3. In April 2026, the three (3) sewer pump stations located in the Goose Creek watershed will be inspected and the necessary corrective actions implemented to ensure proper operation and maintenance. Currently, there are no sewer pump stations in operation in the Rocky River TMDL watershed. If any are added in FY2026, they will be inspected as well.
4. Routine monitoring will continue to be performed monthly by CMSWS at MY9 on Goose Creek at Stevens Mill Road and by NCDEQ, Division of Water Quality at site Q7330000 on Rocky River at SR 2420. Exceedances of established water quality watch and action levels will be identified and follow up actions conducted as necessary for the identification and elimination of pollution sources.
5. Targeted surface water sampling in headwater areas of the Goose Creek watershed will continue in FY2026. Based on the results of FY2025 activities, additional surface water quality and watershed data is needed to further delineate sources of fecal coliform to the system. Watershed modeling and septic system assessments will be utilized to inform decision making and identify potential problem areas.

Section 5: Tracking and Reporting Success

CMSWS will document all activities completed for the identification and elimination of pollution sources in the TMDL watersheds, including all inspections conducted and corrective actions implemented. All confirmed pollution sources will be mapped in GIS and, where possible, pollutant loads will be estimated. This data will be tracked over time as a measure of the success of program activities.

Section 6: TMDL Reporting

This report fulfills the SWMP TMDL reporting requirement by providing a summary of the following:

1. Description of water quality restoration activities completed during the past fiscal year.
2. Description of water quality restoration activities expected to occur next fiscal year.

Appendix A: FY2025 TMDL Data for Mecklenburg County's Phase II Jurisdictions

# Description	Goose	Irwin	Lake Wylie	Little Sugar	Long	McAlpine	McKee	Rocky River	Steele	Sugar	Totals
Public Education and Outreach Activities											
# school educational presentations conducted	0	1	0	17	0	26	0	1	0	0	**45**
# of school students educated at presentations	0	12	0	406	0	781	0	10	0	0	**1209**
# of public educational presentations conducted	0	1	1	20	0	27	0	1	0	0	**50**
# of persons educated at public presentations	0	644	14	204	0	0	0	0	0	30	**892**
# of public events attended	0	17	1	5	1	1	0	1	1	1	**28**
# of persons interacted with at public events	0	375	300	1642	363	14	0	400	150	250	**3494**
# of environmental notices/educational brochures issued	0	100	7	142	38	133	0	0	6	42	**468**
# of pet waste deposits marked	0	0	0	0	0	0	0	0	0	0	**0**
# of sites where the Pet Waste Campaign occurred	0	0	0	1	0	0	0	1	0	0	**2**
# persons sent stormwater program related utility bill inserts	12,656	217,168	96,456	430,864	131,360	452,656	35,408	91,064	77,664	94,280	**1639576**
Public Involvement & Participation Activities											
# Storm Drains Marked	140	55	6	261	20	79	0	149	34	0	**744**
# adopt-a-stream miles cleaned	0	5,227	260	11,036	321	2,963	0	6.7	128	11,047	**30988.7**
Lbs. adopt-a-stream clean-up trash/debris collected	0	9	2.28	24.67	4	33.55	0	58	3	10.53	**145.03**
IDDE Activities											
# Service Requests responded to	1	101	16	148	33	116	1	4	17	40	**477**
# outfalls inspected while responding to service requests	1	25	7	39	7	27	0	1	7	11	**125**
# major outfalls inspected while responding to service requests	0	45	0	28	1	13	0	1	2	5	**95**
# dry weather flows sampled while responding to service requests	0	1	0	2	0	1	0	0	0	0	**4**
# educational Brochures/Pamphlets/Env. Notices distributed while responding to service requests	0	4	1	5	2	7	0	1	0	3	**23**
# of stream miles assessed	0	0	0	12.26	0	0	0	14.44	0	0	**26.7**
# outfalls inspected under stream walk program	0	0	0	74	0	0	0	26	0	0	**100**

# major outfalls inspected under stream walk program	0	0	0	6	0	0	0	7	0	0	**13**
# dry weather flows sampled under stream walk program	0	0	0	0	0	0	0	2	0	0	**2**
# outfalls inspected under IDEP program	0	0	0	33	0	2	0	1	0	0	**36**
# major outfalls inspected under IDEP program	0	0	0	16	0	0	0	0	0	0	**16**
# dry weather flows sampled under IDEP program	0	0	0	0	0	0	0	0	0	0	**0**
# pollution problems/issues discovered through under IDEP program	0	10	0	18	0	8	0	1	1	1	**39**
# of failing septic systems discovered	0	1	1	0	3	10	1	0	0	0	**16**
# of failing septic systems repaired	0	1	1	0	1	2	1	0	0	0	**6**
# of failing septic systems connected to municipal sewer	0	0	0	0	2	8	0	0	0	0	**10**
Construction Site Runoff Control Activities											
# Erosion Control Inspections	82	0	0	44	0	240	0	240	0	215	**821**
# NOVs Issued	0	0	0	0	0	0	0	1	0	0	**1**
Post-Construction Site Runoff Control Activities											
# BMP Inspections	38	185	237	523	230	514	22	57	91	218	**2115**
# NOVs Issued	0	6	4	9	5	6	0	1	1	2	**34**
# Corrective Notice Issued	6	25	13	45	52	33	0	17	4	21	**216**
Pollution Prevention & Good Housekeeping Activities											
# municipal facilities inspected	0	17	0	16	2	7	0	0	0	7	**49**