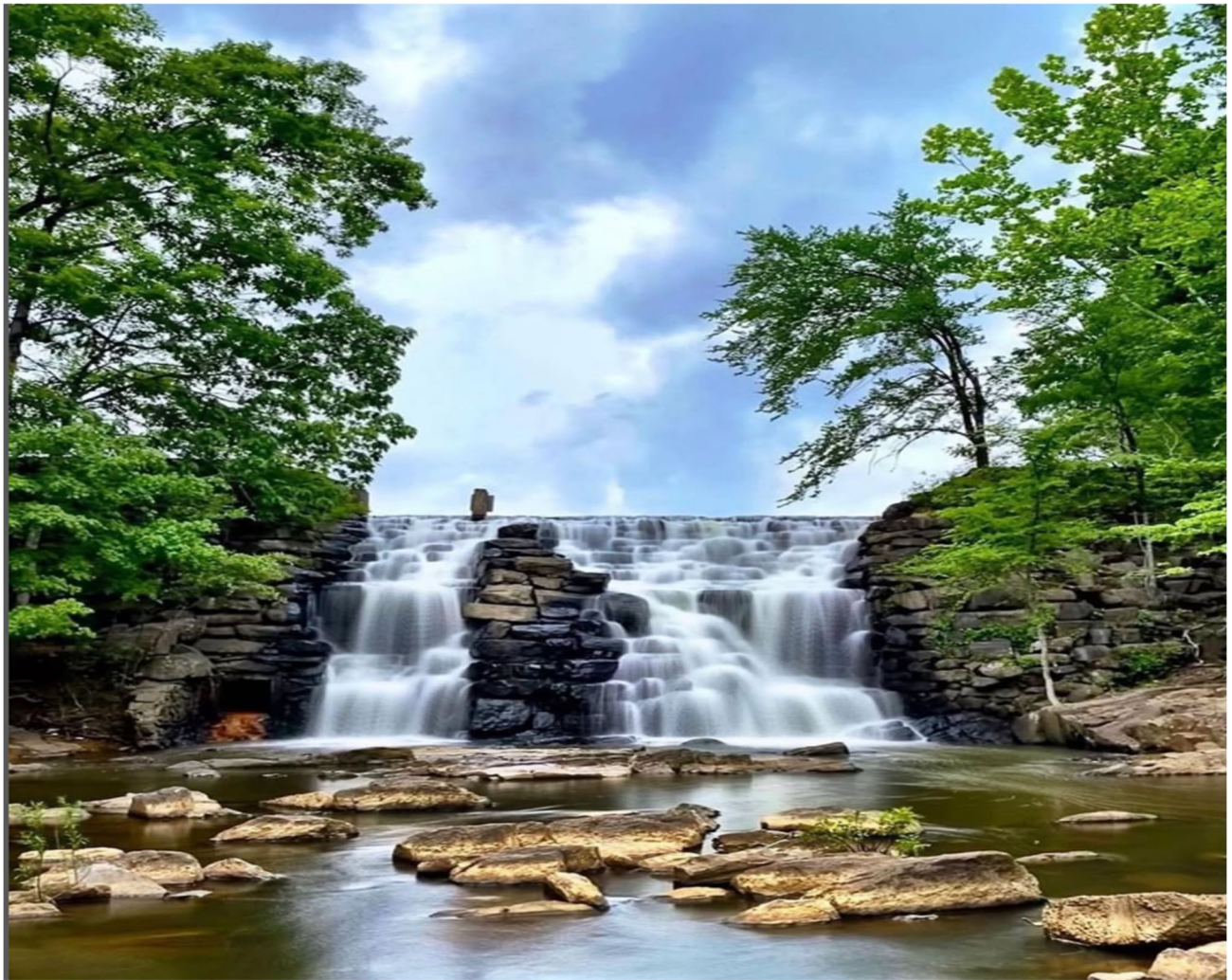

STORMWATER MANAGEMENT PROGRAM MS4 ANNUAL REPORT



PERMIT YEAR

April 2024 – March 2025

SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMIT NUMBER ALR040003

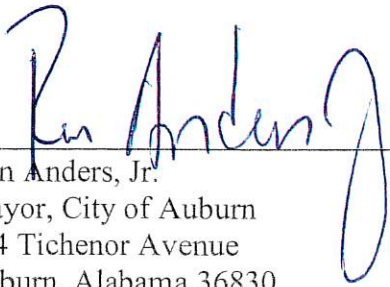
CITY OF AUBURN

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEMS (NPDES)

PERMIT NUMBER ALR040003

MUNICIPAL STORMWATER PROGRAM ANNUAL REPORT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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 submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.



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May 13, 2025

Date

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FOREWORD

FOREWORD:

The mission of the Watershed Division of the Water Resource Management Department of the City of Auburn is, first and foremost, to *protect, preserve, and restore the chemical, biological, and physical integrity of our local water resources*. And, although the City's comprehensive Stormwater Management Program is managed by the Watershed Division, the long-term success of the program will ultimately be determined by its ability to strengthen the resolve and desire of the entire community toward this same objective. This report is drafted with this understanding and therefore reflects the summary of the efforts of the community of Auburn as much as it does those of the staff of the City of Auburn. While there are many success stories and much progress made in 2024 within the City's MS4 program, many challenges still exist such as the continued status of impairment of three of the City's principal water resources: Saugahatchee Creek (Nutrients and Pathogens), Parkerson Mill Creek (Pathogens), and Moores Mill Creek (Siltation and Pathogens) with the pathogen's impairment added to Moores Mill Creek in 2022. We will continue to improve upon and develop our Stormwater Management Plan in the coming years, focusing on building and expanding upon the program's strengths and identifying and implementing strategies for addressing threats to our local water resources.

STORMWATER MANAGEMENT PROGRAM ANNUAL REPORT



City of Auburn

PERMIT YEAR

April 2024 - March 2025

PROGRAM EVALUATION & EXECUTIVE SUMMARY

The City of Auburn is now entering its twenty-second year as a regulated owner/operator of a small municipal separate storm sewer system, with the current reporting year representing the fourth under the current Statewide General Permit ALR040003. Over these past twenty-two years, the City's Stormwater Management Program (SWMP) has been managed and operated with a minimal number of staff and with the same operational budget. The City's physical infrastructure and population has continued to experience rapid growth during this same time period, with the population increasing by approximately 25% every ten years. This rapid urbanization, which began many years before the promulgation of Phase II of the NPDES program, has presented challenges to the City's SWMP, both in the form of legacy impacts to our water resources and in the form of the ever-evolving dynamics of the impacts of urban and suburban growth on local hydrologic conditions. The most outward physical evidence of these challenges is the continued status of impairment of three of the City's principal water resources; Saugahatchee Creek, Moores Mill Creek, and Parkerson Mill Creek. Furthermore, the diversity of impairment (nutrients and pathogens, siltation and pathogens, & pathogens respectively) between these waters highlights the complexity and uniqueness of the impacts of urbanization on our watersheds and underscores the need for prescriptive and strategic plans for protection, preservation, and restoration. The City's SWMP provides the framework for accomplishing this through both targeted regulations and policies (e.g. requirement of Water Quality Plans for developments discharging to impaired waters) and through the implementation of other targeted structural and non-structural control measures as required by the City's MS4 Permit and/or as outlined in the City's Stormwater Management Plan or any of the three approved Watershed Management Plans.

This report outlines, in detail, how the City is operating its SWMP and how it records and documents measurable success. Additionally, this report demonstrates how innovation, partnerships, collaboration, and dedication to a common mission have permitted the City to expand the capacity of its SWMP services to a growing population at little to no increased costs for over a decade. These partnerships, many of which started in the formative years of the program, are the foundation of the City's SWMP and have grown to include Auburn University, Save our Saugahatchee (SOS), Alabama Water Watch (AWW), Friends of Moores Mill Creek, the City of

April 2024 – March 2025

Opelika, the City of Smiths Station, Lee County Highway Department, and Auburn City Schools. Some of the successes and accomplishments of the program in 2024-2025, many of which would not be possible without these partners, include:

- Green Infrastructure Master Plan—In 2019, the Green Infrastructure Master Plan transitioned to the City’s Integration of Green Infrastructure Guidance Document and was accepted by the City. During this reporting period, the City looked at ways to incorporate Green Infrastructure/Low Impact Development (GI/LID) into City projects such as the City’s Lake Wilmore Community Center Phase II, Alexander Bailey Complex, the Boykin Campus Expansion and Pearson Park.
- Gave twelve (12) public presentations on stormwater and watershed management related topics to a variety of different groups and organizations.
- Visually screened 291 storm sewer outfalls within the City’s MS4, which represents 19% of all the outfalls within the City and is just above the mandated 15% inspection requirement identified in the City’s MS4 Permit.
- Responded and investigated 16 citizen water resource concerns received by citizens and resolved 16 either through investigation or referring the concern to the proper City Department.
- Published 12 articles directly or indirectly related to stormwater and watershed management in the City’s OpenLine Newsletter, which is distributed monthly to approximately 22,000 customers.
- Merged the Auburn University’s Comprehensive Stormwater Management Policy Initiative regarding opportunities for developing programmatic and regulatory consistency between the two programs into the ALOAS Citizen Advisory Committee.
- Continued to look at ways to make improvements to the Watershed Division webpage, including how to provide information about how citizens can get involved with various stormwater programs (ex. Water Festival, Storm Drain Marking, Stream Clean-ups, etc.).
- Continued discussions with Alabama Water Watch (AWW) to explore a partnership to sponsor the training of citizens interested in performing water quality monitoring in the City of Auburn.
 - There was an event scheduled during this reporting period; however, Watershed Personnel were unable to attend due to prior commitments.
- Continued meetings of the ALOAS organization with in-person meetings on August 28, 2024, November 6, 2024, and February 4, 2025, and will continue to have quarterly meetings scheduled for the remainder of 2025-2026.

PROTECT – PRESERVE – RESTORE

- City swept streets and parking lots within the City, thereby sweeping 21,669 miles. Additionally, the City removed 778 tons of debris from the roadway.
- Recycled almost 43 Tons of household hazardous waste, a combined total of ~553 tons of newspaper, cardboard, glass and over 1,493 gallons of used cooking oil/grease.
- Performed ~1,878 Erosion and Sediment Control site inspections on developments >1 acre, resulting in 939 inspection reports and twenty-six (26) 72-Hour Notices of Violation (NOV's) and seven (7) cease and desist orders.
- Maintained, implemented, and enforced lot-level erosion and sediment control standards for single-family residential lots less <1 acre.
- Performed 1077 Pre-Erosion and Sediment Control inspections on construction sites <1 acre. Of these inspections, 208 resulted in required corrective action prior to issuance of a building permit.
- Supported and participated in numerous community education and outreach opportunities, including the Breakfast with the Easter Bunny, Lee County Water Festival, Hometown Heroes, Downtown Trick or Treat, Bark in the Park, Earth Day, and clean-up events, etc.
- Performed Stream Cleanups that resulted in the removal of multiple garbage bags full of trash/debris from Parkerson Mill Creek. Provided supplies for a cleanup on Town Creek/Graham McTeer Park.
- Performed ~310 detention pond inspections.
- Performed 63 stormwater inspections of City-owned facilities.
- Continued to implement the illicit discharge detection and elimination training module for City staff during this reporting period.
- Continued to implement numerous recommendations outlined in the Natural Systems section of the City's Comp Plan 2030 and moderated Comp Plan 2040 committee meetings from August – October 2025.
- Continued routine monitoring of 52 stations throughout the City for turbidity, dissolved oxygen, temperature, pH, and specific conductance.
- Continued the City's in-sourcing Source Water Monitoring Plan.
- Continued to jointly fund and operate two USGS stream gaging operations on Saugahatchee and Chewacla Creeks.

- Completed the twenty-first year of conservation measures outlined in the Chewacla Creek Safe Harbor Agreement.
- Continue to have a substantial reduction in sanitary sewer overflows since implementing a strategic maintenance and prevention program.
- Continued using the IDEXX system for E. coli enumeration that replaced the Coliscan Easygel method previously utilized by the City. The Coliscan Easygel method may be subjective in determining the colony color, and the IDEXX system appears to have removed this subjectivity.
- Continued to use the Water Resource Management Stormwater Intern to assist the Watershed personnel on various jobs to include, but not limited to, water quality sampling, construction site inspections, municipal facility inspections and detention pond inspections.

Progress Update of Specific Goals Established for 2024-2025 and New Goals for 2025-2026

The Watershed Division regularly evaluates the effectiveness and efficiency of its operations, both from a permit compliance perspective as well as a mission/objectives and budgetary perspective. This allows staff to identify elements of the SWMP that are working, those that are not, and those that need or warrant modification. Staff work to continue those services that they determine are effective, eliminate those that are not, and establish goals for improving those that could be. Below is an update of progress made toward goals established for 2024-2025 and a list of new goals established for 2025-2026.

2024-2025 Goals - Progress Updates

Complete the design and implementation of a Low Impact Development (LID)/Green Infrastructure (GI) Map of the City's LID/GI projects based on the City's existing LID/GI inventory.

- Data collection occurred during this reporting period but will need to continue this project during the 2025-2026 reporting period.

Continue to evaluate options to improve tracking and reporting features of stormwater program components of CityWorks.

- City personnel added the additional software of Bluebeam to work concurrently with CityWorks to help improve the tracking/reporting of development review team (DRT) projects.

Continue to increase public education and awareness through storm water activities, involvement with our local schools and other education and outreach initiatives.

- While educational activities were not able to be scheduled during this reporting period, the planning and communication of the activities did take occur during this planning period. Look for the education activities that are scheduled with the local summer camps in June and July 2025 to be included in the 2025-2026 Annual Report

Continue to implement the City's Green Infrastructure Master Plan where feasible with the goal to install at least one Green Infrastructure practice within the City.

- The City of Auburn partnered with Auburn University and City of Opelika to submit a grant proposal for LID/GI/Stream restoration projects at Hickory Dickory Park. If granted this proposal, the project will include the stream bank restoration of an unnamed tributary to Saugahatchee Creek, bioretention cells, and pervious walking paths within the park.

Continue to promote the city-wide online education program for Illicit Discharge Detection and Elimination (IDDE)

- Watershed personnel have incorporated the IDDE training of citizens within the Citizen Academy which helps to educate citizens on illicit discharges.

Continue the City's new Stream Gaging Program through the installation of one (1) real-time stream gage per year until all major waterways are gaged and/or install additional rain gauges (Hobolink).

- Watershed installed three (3) new rain gauges during this reporting period. The three locations are the Water Resource Management (WRM) office, HC Morgan WPCF, and Lake Ogletree.

Continue to implement ESC workshops, at a minimum of once a year, with subjects that help to resolve issues experiencing on job sites within the community.

- The ALOAS hosted a lunch and learn to discuss changes to the City of Auburn's Design Manual and Changes to the Alabama Handbook. In addition, a presentation was provided by Mr. Cary Potter, RF with the Alabama Forestry Commission on the implementation of forestry BMPs/logging BMPs to reduce sediment in stormwater runoff. The event hosted 32 attendees.

Continued to look at ways to make improvements to the Watershed Division webpage, including how to provide information about how citizens can get involved with various stormwater programs (ex. Water Festival, Storm Drain Marking, Stream Clean-ups, etc.).

- The City provided a link for volunteers to register to participate in the most recent Lee County Water Festival

<https://www.auburnal.gov/water-resource-management/watershed/get-involved/lee-county-water-festival/>

Goals For 2025-2026

- Complete the design and implementation of a Low Impact Development (LID)/Green Infrastructure (GI) Map of the City’s LID/GI projects based on the City’s existing LID/GI inventory.
- Continue to increase public education and awareness through storm water activities, involvement with our local schools and other education and outreach initiatives.
- Continue to implement the City’s Green Infrastructure Master Plan where feasible with the goal to install at least one Green Infrastructure practice within the City.
- Continue to promote the city-wide online education program for Illicit Discharge Detection and Elimination (IDDE)
- Continue the City’s new Stream Gaging Program through the installation of one (1) real-time stream gage per year until all major waterways are gaged and/or install additional rain gauges (Hobolink).
- Continue to implement ESC workshops, at a minimum of once a year, with subjects that help to resolve issues experiencing on job sites within the community.
- Continued to look at ways to make improvements to the Watershed Division webpage, including how to provide information about how citizens can get involved with various stormwater programs (ex. Water Festival, Storm Drain Marking, Stream Clean-ups, etc.).

I. INTRODUCTION

In response to the National Pollutant Discharge Elimination System (NPDES) Phase II Stormwater Regulations, the City of Auburn (City) applied for and received an NPDES permit for stormwater discharges from the Alabama Department of Environmental Management (ADEM) on May 14, 2003. The current permit was issued September 16, 2021 and became effective October 1, 2021. A copy of this permit (ALR040003) is included in this report.

This report is being submitted to the ADEM pursuant to Part VI; paragraph 1 of NPDES Permit ALR040003. This annual report is the City's twenty-second (22nd) report, and 4th under the reissued permit, and covers the reporting period from April 2024 through March 2025. The stormwater program outlined in this report is patterned after the program submitted ADEM in July 2021 in the City of Auburn's Notice of Intent (NOI) and in accordance with the City's revised Stormwater Management Plan (SWMPP) submitted to the Department along with this annual report (May 2025).

II. SITE DESCRIPTION

The City of Auburn is located in East Central Alabama. A map of the City is provided in Appendix B. The Auburn, Alabama land area encompasses 58.07 square miles per the U.S. Census. Approximately 26.80 square miles of the Auburn City Limits are located within this urbanized area. The current population of Auburn is approximately 76,429 per the 2020 U.S. Census. There are approximately 466 miles of creeks and streams flowing through Auburn, approximately 667 lakes, ponds, and other open waters, and +/- 370 acres of wetland. From the most recent City storm drainage system inventory, the storm drainage system contains approximately 184 linear miles of storm pipe (158 miles of which are owned by the City). The City is updating its stormwater infrastructure inventory on a routine basis using the City’s survey crew, as well as private surveyors.

Geographic Context

The City of Auburn is situated within a unique transitional zone between the Piedmont and Coastal Plain physiographic regions of the Southeastern United States (see link below). More specifically, the City is located within the Level IV sub-ecoregion known as the Southern Outer Piedmont. This ecoregion is generally characterized as having lower elevations, less relief, and less precipitation than that exhibited in other regions of the Piedmont. Overstory cover type within this region consists mostly of mixed deciduous (oak, gum, hickory) and mixed coniferous (pines, firs, spruces, etc.) with the presence of numerous monotypic pine plantations scattered throughout. Specific to these transitional areas in the southeast is the presence of the “fall line”, the geographic divide between the Piedmont and Coastal Plain. More information can be found at the link provided below. The City’s presence within this transitional area between the piedmont and coastal plain regions provides for a unique hydrogeomorphic diversity of water features within a relatively small geographic area. This diversity is exemplified in the abundance and variety of stream channel features, varying substrate composition, and variety of aquatic habitats. For example, streams in central Auburn generally exhibit piedmont characteristics, such as strong riffle/pool complex formation and cobble/gravel substrate composition, yet they cascade to a coastal plain dynamic of long runs and sandy substrates as they flow to the western and southern extents of the City. Similarly, the topography of each of the contributing watersheds follows the same pattern of increasing coastal plain-like features to the west and south of the City.

Link to a map of Alabama’s physiographic regions:

http://alabamamaps.ua.edu/contemporarymaps/alabama/physical/al_physio.pdf

III. KNOWN OR SUSPECTED WATER QUALITY PROBLEMS

The City's MS4 discharges into streams located in three primary (10-digit HUC) watersheds; Saugahatchee Creek Watershed, Uphabee Creek Watershed, and Chewacla Creek Watershed. Smaller watersheds of the Saugahatchee Creek Watershed to which portions of the City's MS4 discharge include the Loblockee Creek Watershed and the Little Loblockee Creek Watershed. Smaller watersheds of the Chewacla Creek Watershed to which portions of the City's MS4 discharge include Parkerson Mill Creek, Moores Mill Creek, and Town Creek. The only sub-watershed of the Uphabee Creek Watershed to which portions of the City's MS4 discharge is the Choctafaula Creek Watershed.

Moores Mill Creek was placed on the draft 303(d) list in 1998 and has been listed on the final 303(d) lists from 2002 to present for siltation impairment. Known water quality concerns within the jurisdictional area were identified as stream siltation resulting from sedimentation deriving from local development within the Moores Mill Creek watershed and in-stream erosion. Also, in 2022, Moores Mill Creek was placed on ADEM's final 303(d) for pathogens (E.Coli). Known water quality concerns were identified from collection system failures and urban runoff/storm sewer. The ADEM final 2022 303(d) list identifies Moores Mill Creek as a Low Priority for Total Maximum Daily Load (TMDL) development for both the siltation and pathogen (E. Coli) impairments. The City included pathogen monitoring of the Moores Mill Creek Watershed in the summer of 2022 as detailed in the Water Quality Monitoring Report found in Appendix D.

The Saugahatchee Embayment, where Saugahatchee Creek flows into Yates Lake, was placed on the final 303(d) lists from 1996 to 2008. The Embayment was listed on the 303(d) list primarily for nutrient enrichment (Organic Enrichment/Dissolved Oxygen). ADEM and the USEPA issued the final Total Maximum Daily Load (TMDL) for nutrients and organic enrichment/dissolved oxygen for Pepperell Branch and the Saugahatchee Embayment in April 2008. Implementation of the stormwater TMDL is addressed in the City's Phase II Permit that was issued on September 6, 2016 (effective on October 1, 2016) and the City's updated Stormwater Management Plan that was submitted to ADEM in December 2019. Saugahatchee was again listed on the final 2020 303(d) list for pathogens (E. Coli). The City included pathogen monitoring of the Saugahatchee Watershed in the summer of 2019 as detailed in the Water Quality Monitoring Report found in Appendix D.

Parkerson Mill Creek, from its source to Chewacla Creek, was placed on the final 303(d) list in 2008 and 2010. Known water quality concerns within the jurisdictional area were identified as pathogens resulting from urban runoff, storm sewers, and illicit discharges. A TMDL for Parkerson Mill Creek was issued by ADEM in September 2011. Implementation of this stormwater TMDL is addressed in the City's Phase II Permit issued on September 6, 2016 (effective on October 1, 2016) and the City's updated Stormwater Management Plan that was submitted to ADEM in December 2019. The Parkerson Mill Creek Watershed Management Plan was drafted and finalized in December of 2011. A detailed map of the hydrology and all watersheds with approved TMDLs is found in Appendix E of this report.

IV. RESPONSIBLE PARTY

The City's Stormwater Management Program (SWMP) is implemented through a diversity of programs operating under various departments within the City's organization. The City, in 2018, experienced a re-organization. As a result, the components of the SWMP and each department's respective responsibilities may have changed from previous years, but are currently as follows:

- Environmental Services Department – Operates the collection of garbage, bulky waste (trash) and recycling, along with animal control services and the maintenance of the City's vehicles and equipment fleet; Hosts the household hazardous waste event, shredding event, and the Amnesty Trash Month.
- Parks and Recreation Department – Hosts annual Earth Day activities along with several other community events; Manages the City's Greenway/Greenspace Program and the Pet Waste Stations.
- Planning Services Department – Assists with reviewing and approving low impact development projects; Manages CompPlan 2030 and future land use planning efforts (CompPlan 2040).
- Inspection Services Department – Monitors residential and commercial construction, including construction stormwater inspection and enforcement for those entities.
- Public Works Department – Provides construction and maintenance services of the City's streets, sidewalks, storm drains, right-of-ways and public facilities. Within Public Works, several divisions play a role implementing the SWMP:
 - Landscape and Sustainability – Incorporates green infrastructure concepts and water quality management into the design and renovations of City facilities. The City's urban forestry program is managed through this division, thus supporting the Integration of Green Infrastructure Guidance Document, Urban Forestry Master Plan, and Tree Giveaway Program (Arbor Day and Christmas Parade).
 - Maintenance – Maintains the street network and storm drainage system by repairing streets that have been damaged by construction and assessing existing streets, curb and gutter, drain inlets and stormwater conveyance systems to identify defects and develop maintenance recommendations for the renewal and replacement of assets.
 - Right of Way Maintenance – Provides maintenance of public right of way to include streets and sidewalks to keep grass mowed, weeds maintained, trees cut back and sidewalks and curbs edged. Also, provides litter control within the right of way and street sweeping.

PROTECT – PRESERVE - RESTORE

- Engineering Services Department – provides engineering and project management services for construction and improvements to roads, sidewalks, drainage structures and bridges within the City and coordinates the plan review process for engineering and utility construction proposed by the local development community. Also, inspect detention ponds.
- Water Resource Management Department – Monitors residential and commercial construction and conducts erosion and sediment control inspections; Manages water quality sampling program; Manages public education and outreach program; Assists Engineering Services with annual detention pond inspections; Manages the overall SWMP and compliance with the MS4 Phase II Stormwater Permit.

When the City began its Phase II program, coordination and implementation of the individual SWMP was the responsibility of the Public Works Department. In October 2005, management of the stormwater program was transferred from the Public Works Department to the Water Resource Management Department, under a newly created Watershed Division. The intent of the move was to manage water supply operations, wastewater operations, and stormwater operations from a watershed perspective for all components that impact water quality within the City.

The following group is responsible for the coordination and implementation of the individual SWMP:

Water Resource Management Department
City of Auburn
1501 West Samford Avenue
Auburn, AL 36832
(334) 501-3060

V. STORMWATER MANAGEMENT PROGRAM COMPONENTS

The Phase II stormwater regulations require operators of small Municipal Separate Storm Sewer Systems (MS4s) in urbanized areas to develop and implement stormwater management programs employing best management practices (BMPs) to adequately address five minimum control measures. The minimum control measures include:

- Public Education and Public Involvement on Stormwater Impacts
- Illicit Discharge Detection and Elimination
- Construction Site Stormwater Runoff Control
- Post-Construction Stormwater Management and
- Pollution Prevention/Good Housekeeping for Municipal Operations.

In March 2003, the City submitted to ADEM a Notice of Intent (NOI) to implement a SWMP under the Phase II stormwater regulations. The City's most recent SWMP was revised September 2023 to comply with the current Phase II. The goals and details of the City's program are outlined in the revised SWMP. At the end of permit year twenty-two (4th year under the reissued permit) all program components outlined in the SWMP have been implemented.

VI. PUBLIC EDUCATION AND PUBLIC INVOLVEMENT ON STORMWATER IMPACTS

A. Articles in the City Newsletter “Open Line”

Open Line is a monthly newsletter mailed to Auburn citizens through their utility bill. Articles and messages contained in the newsletter reach a large and diverse group of citizens. The goal for articles in Open Line is to produce five (5) articles per year. During the current reporting year, a total of twelve (12) articles were published in which stormwater related issues were highlighted or affected:



- *Prevent Water Pollution by Picking Up Pet Waste – April 2024*
- *Construction Regulation Reminders – June 2024*
- *Connect With City Staff Through Auburn FixIt – June 2024*
- *AWWB Annual Water Report—Come on In, the Water’s Fine – July 2024*
- *Summertime Watering Tips from the Water Works Board – August 2024*
- *Flood Protection and Preparation Information – August 2024*
- *A Better Way to Get Rid of Used Cooking Oil – September 2024*
- *Fall Household Hazardous Waste Collection Day – October 2024*
- *Some Water Fees to Change Following Water Rate Study – October 2024*
- *Household Hazardous Waste Collection Day – March 2025*
- *Recycling Drop Off Relocating – March 2025*
- *Trash Amnesty 2025 – March 2025*

Copies of these articles can be downloaded from the City’s website at:

<http://www.auburnalabama.org/openline/>

B. Brochure Publications

Pamphlets and brochures can be an effective way to present and explain stormwater issues. Unlike other communication methods, pamphlets and brochures can be distributed in many

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locations without requiring staffing and the location of distribution can specifically target the audience of interest. The City has produced various brochures over the past decade and the City's goal is to continue to promote these previously developed brochures to the public by distributing at least one (1) stormwater brochure per year, at a minimum. The City will use these brochures to target a specific educational component (i.e. grass clippings) and make the brochures available to the public by distributing the brochures at City facilities, City functions and the City's Phase II stormwater website. In March 2025, the City distributed 200 of the "Protect Our Waters: Pick Up Pet Waste" to Auburn's citizens during the Bark in Park public event to help educate the importance of properly disposing of pet waste. The City continues to promote the impacts of stormwater runoff by providing information and/or brochures for citizens to read and/or take with them within different City Departments. For example, information on the "City's Cooking Oil/Grease Recycling Program" along with the current CCR Brochures that citizens may take with them are provided in the lobby of the Bailey-Alexander Water and Sewer Complex. In addition, brochures provided by the City over the past several years can be downloaded from the City's website at:



<https://www.auburnalabama.org/water-resource-management/watershed/aloas/>

Additional Brochures Made Available:

- Washing Cars (Alabama Clean Water Partnership (ALCWP))
- Changing Oil (ALCWP)
- Pets (ALCWP)
- Fertilizing (ALCWP)
- Saugahatchee Creek Watershed: Past, Present and Future (Saugahatchee Watershed Management Plan Group (SWaMP))
- Fats, Oils and Grease Recycling Program (City of Auburn)
- ALOAS brochures from previous years
- Alabama Scenic River Trail maps and information
- Protect Our Waters: Pick Up Pet Waste

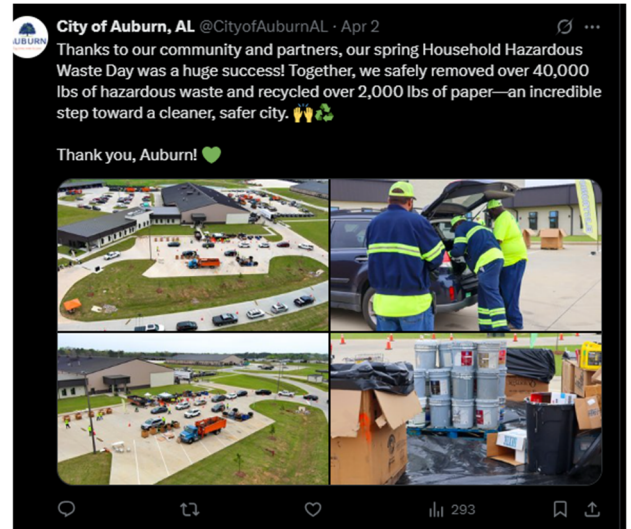


April 2024 – March 2025

C. Social Media

The City of Auburn takes advantage of social media as a communication tool with the citizens to let them know about upcoming stormwater events and festivals in the community, news articles involving stormwater issues, as well as updates to the City’s MS4 stormwater program. The following networks are currently utilized by the City of Auburn:

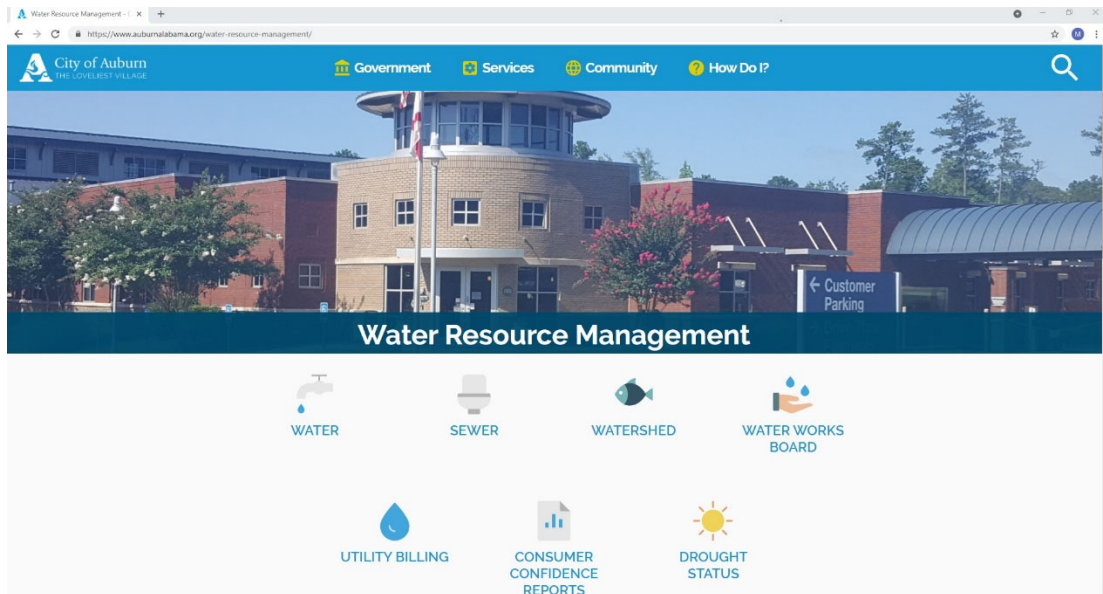
- Facebook – The City currently has 26,168 followers. That is an increase of 3,168 followers from last year.
- X – The City currently has 9,300 followers which is a decrease of 3 followers from last year.
- Instagram – The City currently has 14,582 followers which increased by 1,782 followers from the previous year. The City currently has 4,835 posts.
- Youtube – Currently, the City has 8,327 subscribers which increased by 1,177 subscribers from last year.
- Next Door Neighbor –The City has reached 18,298 members. The number of members has increased by 2,147 members from the previous year.



D. Website

The City of Auburn is in the process of redesigning its Watershed portion of the Water Resource Management website, which houses the City’s stormwater information. The intent is to launch a newly designed website by the end of 2025 that will continue to improve access and functionality for a more user-friendly experience. Currently, citizens can go to the City’s website to obtain information on items of local interests. The web page is accessible 24 hours per day and can serve citizens that do not have the time or the ability to physically meet with staff during normal working hours.

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During this reporting period, the Stormwater website was visited 766 times by 326 users.

For more information on the website please visit:

<https://www.auburnalabama.org/water-resource-management/watershed/>

E. Public Water Quality Viewer Application

This application, developed and launched in 2015 (updated in 2018), allows the public to view water quality data from forty (40) monitoring locations on streams throughout the City. These stations are monitored routinely by Watershed Division staff using modern water quality monitoring equipment, with the viewer application updated monthly to reflect current data. Water quality parameters analyzed and presented include Turbidity, Dissolved Oxygen, Temperature, Specific Conductance, and pH. More information about these parameters can be found through various webpage links provided in the application. This application helps to provide transparency in our monitoring operations, facilitate educational and research opportunities for students and teachers, and provide an additional tool for citizens to become aware and involved in helping to preserve and protect our local water resources. This application can be found at:

<http://webgis.auburnalabama.org/waterqualitypublic/#openModal#openModal#openModal>

F. Public Presentations

The City provides staff and/or resources to perform presentations for various groups and public meetings. Typically, presentations are offered in PowerPoint format, and the topics are chosen by the organization requesting the information.

Twelve (12) public presentations were made during the 2024-2025 reporting year. Presentations were given to various groups, including various City departments, City officials, and public service organizations.

- Lee County Water Festival – May 2024
 - A. Mini Filtration
 - 1. Presenter - Marla Smith, Dusty Kimbrow, Ron McCurry, Dustin Rogers
 - B. Edible Aquifer
 - 1. Presenter – Tim Johnson
- City Academy – City of Auburn – May 2024
 - A. Topic—Stormwater Impacts on Local Water Quality
 - 1. Presenter - Marla Smith
- Citizen Academy – City of Auburn – May 2024
 - A. Topic – Water Resource Management Department, Watershed Division: Preparing You to Help Protect, Preserve, and Restore Our Local Water Resources
 - 1. Presenter – Dusty Kimbrow
- City of Auburn Hometown Heroes – June 2024
 - A. Topic – Water Resource Management Department: Water, Sewer and Watershed Operations
 - 1. Presenter – Tim Johnson, Dustin Rogers, and Ron McCurry
- City Council Budget Work Session – August 2024
 - A. Topic – WRM Budget

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1. Presenter – Matt Dunn
- Alabama Water Resource Association (AWRA) Conference – Auburn University – September 2024
 - A. Topic – HC Morgan WPCF Bioretention Cells Case Study
 1. Presenter – Dustin Rogers
- Auburn 2040 Committee Group – September 2024
 - A. Topic – WRM Operations
 1. Presenter – Matt Dunn and Tim Johnson
- Erosion and Sediment Control Workshop – December 2024
 - A. Topic – City of Auburn Erosion and Sediment Control Program Updates
 1. Presenter – Marla Smith
- Civil Engineering Urban Hydraulics Class – Auburn University – January 2025
 - A. Topic – City of Auburn Erosion and Sediment Control Program Updates
 1. Presenter – Tim Johnson
- City of Auburn Development Services Division – February 2025
 - A. Topic – Water and Wastewater Hydraulic Model Utilization
 1. Presenters – Matt Dunn, Tim Johnson
- Safe Harbor Agreement – Auburn Water Works Board – March 2025
 - A. Topic – Overview of the Safe Harbor Agreement (Chewacla Creek)
 1. Presenter – Marla Smith

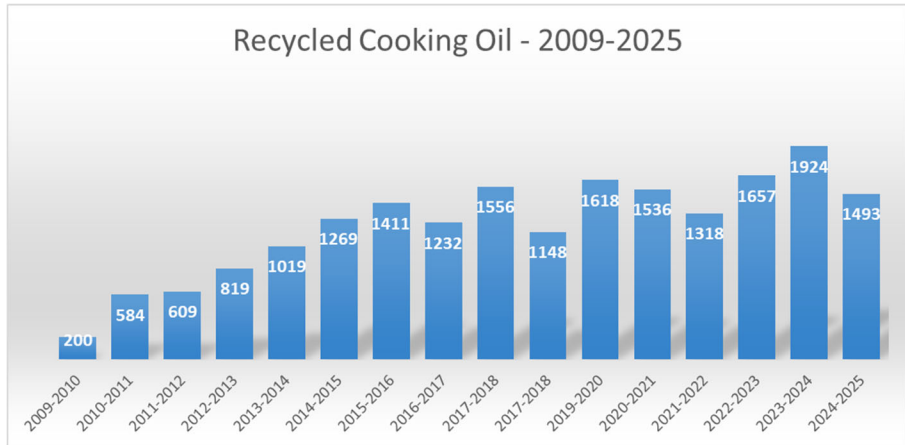
G. Workshops/Training Hosted

In an effort to educate contractors, developers, engineers, and staff, the City has initiated a series of workshops. The content of the workshops focuses on local stormwater issues of concern. Workshops/training hosted by the City over the past year include:

- **City Academy (May 1, 2024)** – The event started with a presentation to City Personnel about Stormwater Impacts to Local Water Quality provided by Watershed personnel. After the presentation, Watershed personnel took the City Academy on a construction site inspection and demonstrated the drone. The workshop ended at the HC Morgan WPCF discussing the bioretention ponds, stream restoration and water quality sampling. The number of City Personnel attending the City Academy was between ten and fifteen (10-15) people.
- **Citizen Academy (May 14, 2024)** – Watershed Personnel provided an Illicit Discharge Detection and Elimination (IDDE) training to approximately fifteen (15) Auburn citizens by providing a lunch and learn presentation.
- **Erosion and Sediment Control (ESC) Lunch and Learn (December 11, 2024)** – The ALOAS hosted a lunch and learn to discuss changes to the City of Auburn’s Design Manual and Changes to the Alabama Handbook. A presentation was provided by Mr. Cary Potter, RF with the Alabama Forestry Commission on the implementation of forestry BMPs/logging BMPs to reduce sediment in stormwater runoff. The event hosted 32 attendees.
- **Webcasts & Webinars** – The Water Resource Management Department regularly schedules and participates in online webinars and webcasts training opportunities. During this reporting year, stormwater and watershed-related webinars/webcasts attended by City staff included topics such as monitoring instrumentation, water treatment and distribution, and source water protection and are listed below:
 - WEF Artificial Intelligence/Machine Learning Through a Watershed Lens – 2/18/2025
 - IDEXX Laboratory Basics; Dilutions and Reading Results – 2/25/2025
 - IDEXX Laboratory Basics III: Mastering Your Skills – 03/26/2025

H. Household Grease Recycling Program and Composting

The Water Resource Management Department initiated a Household Grease Recycling Program in 2009 with containers and bins located at the recycling center. This program provides citizens with a mechanism to properly dispose of household grease and is targeted at reducing potential sanitary sewer



overflows. In 2011, the Water Resource Management Department launched a curbside household grease recycling program that provides residents with an opportunity to collect their household grease and have it picked up by City personnel at their residence. **Approximately 18,776 gallons of used cooking oil/grease have been collected since implementation of the program began in March 2009, with 1,493 of those gallons collected during this reporting period.** For more information on our household grease recycling program, please visit:

<https://www.auburnalabama.org/water-resource-management/fog-recycling/>.

I. Educational Field Activities

Earth Day Activities (April 2024)

On April 9-11, 2024, students had the opportunity to experience a hands-on Earth Day activity by working with a water Enviroscope. An Enviroscope is a molded plastic model of a watershed complete with various types of landuse including residential, transportation, agricultural, construction, recreation and forestry areas. The interaction with the Enviroscope allowed the children to visually see how soil erosion, pesticides, and stormwater runoff impact a watershed and



April 2024 – March 2025

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helped them learn ways to protect the environment. **In 2024, Earth Day Activities were held at the Frank Brown Recreation Center and JDCAC. Five elementary schools within the Auburn City School System participated with approximately 970 2nd grade students observing stormwater runoff impacts and learning ways to protect the environment.**

Earth Day Programs

Schedule – Tuesday, April 9th, 2024

Event will be at the Frank Brown Rec Center & JDCAC

Set up will be between 7:30 – 8:30 AM. Please be set up and ready by 8:30am

Session #1: Woodland Pines – Maximum 35 students per rotation

8:50-9:10am – Rotation #1
9:15-9:35am – Rotation #2
9:40-10:00am – Rotation #3
10:05-10:25am – Rotation #4
10:30 – 10:50am – Rotation #5

10:55 – 11:25am - Lunch

Session #2: Cary Woods – Maximum 38 students per rotation

11:30am – 11:50pm - Rotation #1
11:55am - 12:15pm – Rotation #2
12:20 - 12:40pm – Rotation #3
12:45 - 1:05pm – Rotation #4
1:10 – 1:30pm – Rotation #5

Schedule – Wednesday, April 10th, 2024

Event will be at the Frank Brown Rec Center & JDCAC

Set up will be between 7:30 – 8:30 AM. Please be set up and ready by 8:30am

Session#1: Auburn Early Ed – Maximum 40 students per rotation

8:50-9:10am – Rotation #1
9:15-9:35am – Rotation #2
9:40-10:00am – Rotation #3
10:05-10:25am – Rotation #4
10:30 – 10:50am – Rotation #5

10:55 – 11:25am - Lunch

Session #2: Richland Road Elementary School – Maximum 42 students per rotation

11:30am – 11:50pm - Rotation #1
11:55am - 12:15pm – Rotation #2
12:20 - 12:40pm – Rotation #3
12:45 - 1:05pm – Rotation #4
1:10 – 1:30pm – Rotation #5

Schedule – Thursday, April 11th, 2023

Event will be at the Frank Brown Rec Center & JDCAC

Set up will be between 7:30 – 8:30 AM. Please be set up and ready by 8:30am

Session#1: Dean Road Elementary – Maximum 39 students per rotation

8:50-9:10am – Rotation #1
9:15-9:35am – Rotation #2
9:40-10:00am – Rotation #3
10:05-10:25am – Rotation #4
10:30 – 10:50am – Rotation #5

10:55 – 11:25am - Lunch

Lee County Water Festival (May 2024)

For 2024, the annual Lee County Water Festival was held at the Opelika Sportsplex on May 7-8, 2024. **Fourth graders from schools in the Lee County area usually attend the two-day event along with 40+ volunteers.** The primary purpose of the event is to educate young people on the importance of our water resources and the role each of us plays in conserving our water. During the event, students learn about water filtration, aquifers, and the water cycle through hands-on activities such as building an edible aquifer, making a water cycle bracelet, and building a mini-filtration unit. **Approximately one thousand three hundred (1300) students were able to learn the importance of our water resources and the role that they can play in conserving our water.** Volunteers from the City of Auburn, the City of Opelika, DCNR and other local groups helped make this past year's event a huge success.



Easter Bunny Breakfast

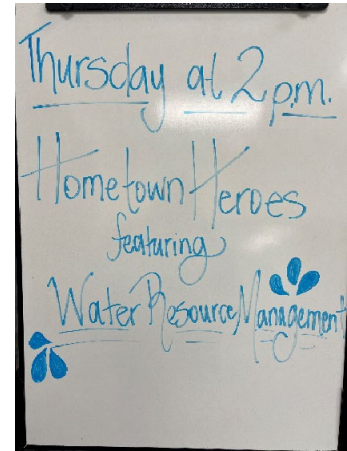
Easter Activities occurred outside of this reporting period (Easter March 2024/Easter April 2025), so it will be included in the next Annual Report for the reporting period of April 1, 2025 – March 31, 2026.



April 2024 – March 2025

City of Auburn Hometown Heroes (June 2024)

Water Resource Management and Watershed personnel provided a presentation of the overview of the City’s Water, Sewer, and Watershed Operations. Watershed personnel demonstrated building an edible aquifer to discuss how groundwater is stored, how it moves, and how the citizens can impact it. This hands-on activity models and aquifer using everyday food items and enabled citizens to visualize concepts like geologic layers, water tables and contamination. In addition, the Watershed Personnel discussed Erosion and Sediment Control inspections using a drone, plus gave out



goodie bags (~50) with the slogan “Think Blue Auburn Only Rain Down the Drain”. Approximately fifty (50) City of Auburn citizens, both kids and adults, were in attendance.

Downtown Trick or Treating Event (October 2024)

On October 31, 2024, Watershed personnel participated in the City’s downtown trick or treating event. Watershed personnel handed out 750 Halloween goodie bags promoting the City’s Illicit



Discharge (IDDE) program, to include reporting information along with the slogan “Think Blue Auburn Only Rain Down the Drain”.

Bark in the Park (March 2025)

On March 22, 2025, Watershed Division personnel participated in the City's Bark in the Park event. Watershed personnel handed out 250 pet waste brochures, pet waste bags, and goodie bags for dogs to pet owners. We also talked with citizens about the importance of properly disposing of your pet waste. Watershed Division personnel provided an important message for the dog owners regarding illicit discharges and where to report potential illicit discharges to the proper City Department.



Public Clean-Ups

Stream Clean Up on Parkerson Mill Creek (November 2024)

On November 8, 2024, in a collaborative effort, the ALOAS group volunteered along with Auburn University students to clean up a portion of Parkerson Mill Creek on Auburn University campus. The City of Auburn provided bottled waters, gloves, trash bags, trash-tongs and safety vests.



Stream Clean Up on Parkerson Mill Creek (February 2025)

On February 28, 2025, in a collaborative effort, the ALOAS group volunteered along with volunteers to clean up a portion of Parkerson Mill Creek located between Veterans Blvd and Interstate 85. The City of Auburn provided bottled waters, gloves, trash bags, trash-tongs and safety vests.



Approximately 6 trash bags full of litter, along with some pieces of tin, were pulled from the creek at this location.

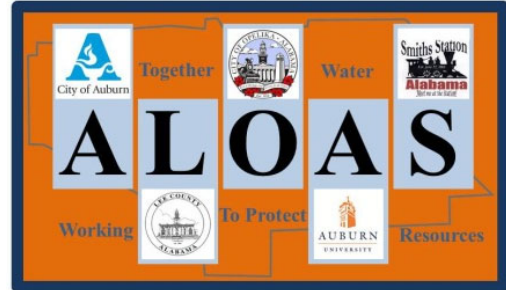
The Big Event (March 2025)

In conjunction with Auburn University's BIG Event, the City of Auburn Watershed Division sponsored a stream cleanup event in Town Creek at Graham McTeer Park on March 22, 2025. The City's Watershed Division provided gloves, trash-tongs, and plastic garbage bags. Trash was removed from the creek and disposed of properly.



J. Integration of Green Infrastructure Guidance Document

In 2016 the City began the process of planning for the future incorporation of Green Infrastructure as a “standard operating procedure”. The first step in this process is to develop a strategic plan that identifies impediments to the use of Green Infrastructure and specific opportunities for the incorporation of Green Infrastructure. The City selected a team of consultants in 2017, led by the Wood Group, Inc., to develop this guidance document. **During this reporting period, the City incorporated some of these practices within City projects such as Lake Wilmore with utilization of permeable pavers in the parking lot as well as bioretention swells.** For more information regarding this guidance document, please visit:



<https://www.auburnalabama.org/water-resource-management/watershed/green-infrastructure-master-plan>

K. Advisory Committee

Both the EPA and ADEM recommend that the public be included in developing, implementing, and reviewing stormwater management programs through the establishment of an advisory committee. Communities that encourage citizens representing diverse backgrounds and interests to participate in the development of stormwater management programs are far more likely to gain community support during the implementation process.

ALOAS Stormwater Advisory Committee (2001-present) - ALOAS is an Advisory Committee that serves Auburn, Lee County, Opelika, Auburn University and Smiths Station. This advisory group began as a citizen advisory group, but overtime, has transitioned to a stormwater advisory committee made up of the City and County employees of the Phase II MS4 area communities. It meets on a quarterly basis to review and provide public input on current policies, brochure content, educational material, and proposed ordinances. Prior to 2012, the Advisory Group was known as ALOA. In 2012, the City of Smiths Station joined the group and the group renamed itself ALOAS to include the addition of Smiths Station. ALOAS meets once per year at a minimum. ALOAS members participated in multiple meetings during this reporting period. The ALOAS group met on August 28, 2024, November 6, 2024, February 4, 2025, and will continue to have quarterly meetings scheduled for the remainder of 2025-2026.

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ALOAS members utilized educational materials that were either created by MS4 entities or obtained from other sources. These brochures and other materials are available to the citizens of Auburn and can be obtained at City Hall, the Bailey-Alexander Water and Sewer Complex or by contacting the Water Resource Management Department at (334) 501-3060. The brochures can also be downloaded from the City's website at

<https://www.auburnalabama.org/water-resource-management/watershed/aloas/>

L. Watershed Organizations

Regional watershed organizations bring together representatives from utilities, private industry, environmental awareness groups, farmers and branches of government to coordinate individual efforts, share information and plan for water resource and aquatic life protection. The regional approach allows participating entities to expand upon individual efforts to maximize limited resources. These organizations also allow for the sharing of ideas, lessons-learned, and development of professional networks.

Save our Saugahatchee and Alabama Water Watch Citizen Water Quality Monitoring Program (2014 - Present) – Beginning in 2014, the City of Auburn, the City of Opelika, and the Lee County Highway Department have contributed \$350 each to pay for material aid to the volunteer water quality monitoring programs operated by Save our Saugahatchee and the Alabama Water Watch organization. **In 2024, the City's contribution was \$400.** These funds are used for both physical-chemical monitoring of local waters as well as bacteriological monitoring used to guide illicit discharge detection and elimination efforts. **In 2024 the City's contribution to these organizations financed routine monitoring of ~30 sites in the Saugahatchee Watershed, resulting in water chemistry and bacteriological monitoring.** All data collected is made available to the public via the Alabama Water Watch Data Portal at:



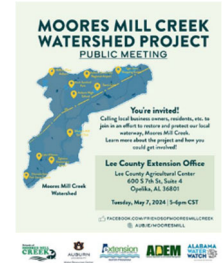
www.alabamawaterwatch.org/water-data

Parkerson Mill Creek (PMC) Watershed Management Plan Group (March 2010 – present) - Parkerson Mill Creek was placed on Alabama's 303(d) List of Impaired Waters for pathogens in 2007 and a pathogen TMDL for the Parkerson Mill Creek Watershed was subsequently approved by ADEM in July 2011. The PMC Group continues to assist by supporting the bacteriological monitoring in Parkerson Mill Creek by Auburn University undergraduates students, which in turn supports investigative illicit discharge detection and elimination activities for the City of Auburn and Auburn University. For more information

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on the Parkerson Mill Creek Watershed Management Plan, please visit <http://www.aces.edu/waterquality/pmc.htm>.

Moore's Mill Creek Watershed Management Plan Group (March 2023 – present) – Moore's Mill Creek was placed on Alabama's 303 (d) List of Impaired Waters for siltation in 2002 and pathogens (E.Coli) in 2022. Known water quality concerns within the jurisdictional area were identified as stream siltation resulting from sedimentation deriving from local development within the Moore's Mill Creek watershed and in-stream erosion and from collection system failures and urban runoff/storm sewer. The ADEM final 2022 303(d) list identifies Moore's Mill Creek as a Low Priority for Total Maximum Daily Load (TMDL) development for both the siltation and pathogen (E. Coli) impairments.



M. Household Hazardous Waste Collection Day/Document Shredding Event

The City hosted the Household Hazardous Waste Collection Day twice this reporting period. This event is a favorite among Auburn residents and was on October 12, 2024, and March 29, 2025. The City allowed its customers to drop off hazardous household chemicals at a collection site free of charge. The items are then disposed of in a safe manner, eliminating the possibility of these items



being improperly dumped in local creeks and streams. **The 2024-2025 Household Hazardous Waste Collection Days combined days yielded approximately 43 Tons (Combined MXI and River Mill).** In addition to the collection of household hazardous waste, the City also provided document shredding events during these two days as well as electronic recycling. **The October 2024 Hazardous Waste Collection day yielded 516-car participants, and the March 2025 Hazardous Waste Collection day yielded 493-car participants.**

N. Auburn FixIt App

The City is continuing to promote the Auburn FixIt app launched in 2021-2022. This online/mobile app allows citizens to request City services and report non-emergency concerns directly to City staff. Citizens can even track the progress of their concerns from the moment it is reported to resolution. In addition, the app includes useful resources such as links to pay your utility bill, FAQs, and quick access to the City’s downtown parking app.



For the 2024-2025 reporting period, the Watershed Division received sixteen (16) citizen concerns regarding either IDDE, ESC, or Other Watershed Concerns via the FixIt App. Below is a summary table of the complaints received:

Type of Complaint	# of Complaints	Corrective Action	Resolved
Illicit Discharge	2	2 investigations; 2 investigations performed; 2 resolved by Watershed Personnel	Yes
Erosion and Sediment Control (Construction Site Runoff)	6	6 investigations with correction of deficiencies performed on site	Yes
Stream Erosion/Other Watershed Concern	8	8 investigations performed; Either sent to another Department for corrective action, or resolved by Watershed Personnel	Yes

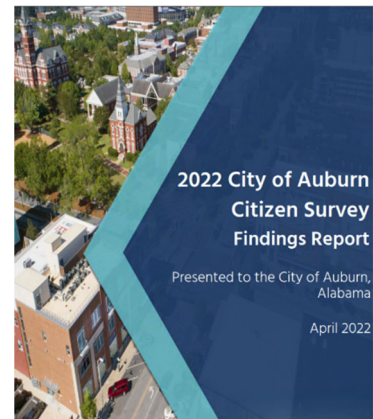
O. Tree Give Away

The planting of trees improves water quality by reducing stormwater runoff and erosion while facilitating nutrient removal. To encourage the reforestation of the City's urban landscape, a total of 1,004 trees were distributed to the City of Auburn citizens during this reporting period. A variety of species (smooth alder, persimmon, sweetbay magnolia, serviceberry, & red-twig dogwood) were handed out to citizens during the Arbor Day Celebration and CityFest raffle event.



P. City of Auburn Citizen Survey

In years past, the Citizen Survey was facilitated on an annual basis; however, starting in 2018, the survey began being conducted every other year. The Citizen Survey was mailed to Auburn Citizens in April 2025. The results hope to be included in the 2025-2026 Annual Report.



Q. Newspaper Articles

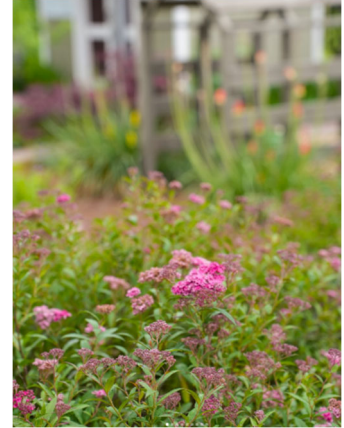
Newspaper articles covering local stormwater/environmental issues are a means for disseminating information to a large and diverse group of residents most directly impacted by these issues. Informative articles provide the reader with an independent point of view. The reader is not forced to rely on information generated by a single source (i.e. City through the newsletter Open Line or brochures).

The City is fortunate to have a local daily publication. The Opelika-Auburn News is a regional daily newspaper that covers local events and is widely read by residents of Lee County. A weekly newspaper publication, the Auburn Villager, began circulation in 2007. **A total of 14 stormwater-related newspaper articles were published during the**

reporting year. A listing of articles and publication dates is included in Appendix C of this report.

R. Greenspace Advisory Board/Greenspace Master Plan

The Auburn Greenspace Advisory Board (GAB) was created by a City Council resolution in 2002. Its objective was to identify potential areas for future property acquisitions for parks, recreation facility projects, and greenways. Once identified, these properties could be purchased and/or protected from development.



In 2003, the GAB recommended a Greenspace/Greenway Master Plan for the City. It was adopted in December 2003 by the City Council and has been utilized by the Planning Commission in connection with approval of projects. The GAB revised the initial Plan to include a vast expansion of the proposed greenspace/greenway areas. This first amendment to the Greenspace/Greenway Master Plan was adopted by the City Council in October 2004.

This plan has resulted in the acquisition of several hundred acres of property located in environmentally sensitive areas. The greenspace/greenway areas include proposed bikeways and trails along existing and new roads and along waterways located within the City's growth boundary. Areas along waterways may be improved with natural trails and will be preserved by the dedication of conservation easements in developments or the acquisition of property by the City. **Additionally, the City continued its feasibility analysis, planning, and design work associated with a combined Blueway/Greenway along Saugahatchee Creek (general alignment as identified in Greenway Master Plan) during the 2023-2024 reporting period. However, in early 2024, the Blueway/Greenway project was put on hold to allow for continuation on other City projects such as Lake Wilmore, the Boykin Center Campus Expansion, and the completion of the City's Soccer Complex, the Public Works/Environmental Services Campus, and the Martin Luther King Streetscape project. While the City's Soccer Complex, Public Works/Environmental Services Campus, and Martin Luther King Streetscape Project have been completed, the Blueway/Greenway project is still on hold.**

S. Auburn Interactive Growth Model

In 2007 – 2008, the City, through its Planning Department, contracted with a firm to develop the Auburn Interactive Growth Model (AIGM), a tool the City utilizes annually to make informed planning decisions. Detailed inventories were conducted for current development such as housing unit by type, population by age groups and retail space by gross area. A demographic forecasting model was developed as well as models for other uses that will provide guidance for future land use allocations. The AIGM also forecasts the spatial distribution of the population over time and the apportionment of land uses necessary to meet the needs of the population. The Planning Department updates the AIGM annually. Since its initial completion, the AIGM's population projections have been used in projecting water and sewer demand, future traffic, regional growth, school growth and as the foundations of the Future Land Use Plan component of CompPlan 2030.

T. CompPlan 2030

In 2009, the City's Planning Department began development of CompPlan 2030, a comprehensive plan to guide future development in Auburn. CompPlan 2030 focuses on the following key areas: current and future land use, and how land use and the built environment affects our natural resources,



schools, parks, utilities, civic facilities and transportation. The Plan provides guidance for future planning based on public input, analysis of current and future conditions, and best practices. A series of public meetings was held in 2009 and 2010 to allow citizens to share their ideas for Auburn's future, giving citizens a voice in the development of the plan. The Future Land Use Plan provides parcel-level recommendations for the type and scale of new development for the next twenty years, and is the product of a strategy to promote infill development and growth in downtown Auburn. The Future Land Use Plan element of CompPlan 2030 replaces the 2004 Future Land Use Plan. The Natural Systems and Utility sections of CompPlan 2030 provide recommendations for water conservation and stormwater management. The plan was adopted by the Auburn City Council on October 4, 2011 and City Departments are now working to integrate components of the Plan into their operations. Revisions to the CompPlan 2030 were completed and adopted by the City in February of 2018. **For this reporting period, the Watershed Division is continuing to integrate components of the revised CompPlan into its operations.** For more information on CompPlan 2030, please visit:

<https://www.auburnalabama.org/CompPlan2030/>

U. CompPlan 2040

While originally slated to kickoff in April 2020, the 2040 planning process was postponed because of the COVID-19 pandemic. Eight community teams were put together to discuss the future of Auburn known as Auburn 2040, Creating Community Together. These eight teams consist of Education, Public Safety, Intergovernmental, Growth and Development, Utilities, Environment and Technology, Citizen Engagement, and Family and Community. Captains have been selected for the eight teams and member selection was open until June 13, 2021. The kickoff for all committees was held on Thursday, July 15, 2021. The planning process was placed on hold on August 13, 2021, due to COVID-19. In January 2022, the Auburn 2040 community-wide planning initiative was postponed until at least early 2023 considering the upcoming municipal election and continued uncertainty surrounding COVID-19. The 2040 planning process was announced on May 6, 2024 to continue during the next reporting period (2024-2025). Committee Meetings kicked off August 8, 2024, and continued weekly until October 10, 2024. For more information on CompPlan 2040, please visit:



<https://www.auburnalabama.org/2040/>

W. Pet Waste Stations

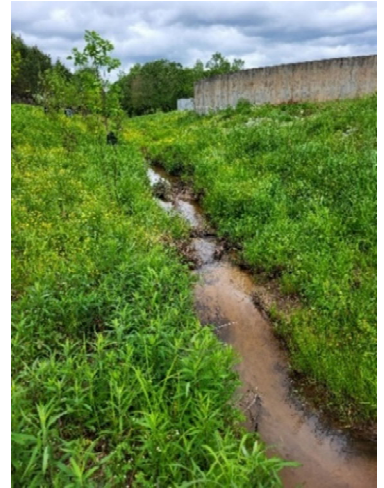
Pet Waste Stations have been installed within the City of Auburn, especially within the City Parks such as Town Creek Park, Kiesel Park and the newly added Dinius Park that are frequented by residents and visitors with their furry companions. The pet waste stations are emptied, and bags are replenished twice a week except for those stations placed at Town Creek Park and Kiesel Park which are maintained daily. If pet waste is not removed from the ground, there is the potential for the waste to be carried in stormwater runoff to nearby waterbodies causing possible pathogen impairments. The installation, maintenance and promoting the use of these stations will help to reduce the potential presence of harmful bacteria due to pet waste from entering our waterbodies.



X. Streambank Stabilization Projects

During this reporting period, the City of Auburn continued to maintain the restoration project on a UT to Parkerson Mill Creek located on the property of the HC Morgan Water Pollution Control Facility that was completed during the 2023-2024 reporting period.

No new streambank stabilization projects took place during this reporting period of April 1, 2024 – March 31, 2025.



Y. Auburn Street Tree Explorer

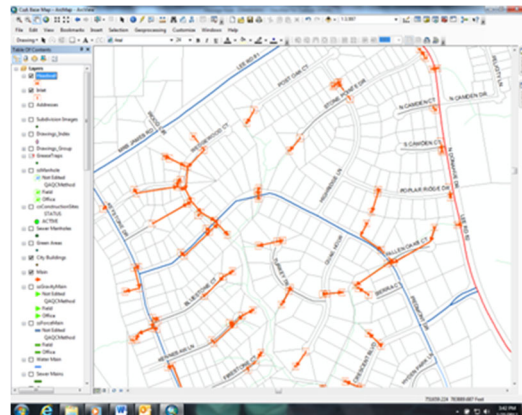
In early January 2021, the City of Auburn launched the Auburn Street Tree Explorer which calculates the stormwater uptake of all the City trees that have been inventoried within the City. During rain events, trees can physically intercept rainwater with their leaves preventing runoff from reaching the ground and flowing over impervious surfaces, like asphalt and concrete, potentially overwhelming stormwater collection systems and polluting our natural waterways and waterbodies.

<https://www.auburnalabama.org/public-works/landscape-and-sustainability/urban-forestry/explore-auburn's-tree-canopy/>

VII. ILLICIT DISCHARGE DETECTION AND ELIMINATION

A. Storm Sewer Mapping

The City of Auburn completed the initial mapping of its storm sewer system in 2003. The mapping is maintained in a Geographical Information Systems Database (GIS). Detailed information on pipe size, pipe material, direction of flow, inlets, manholes, bridges, box culverts, detention ponds, and headwalls are maintained in the City's GIS database. The City is currently working to collect stormwater infrastructure data throughout the entire City Limits. In 2013, the City began a Utility Mapping Project utilizing



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City survey crews and several outside surveying firms. This project, the initial inventorying phase, was completed in 2017. **In 2024-2025, the City added approximately 15.0 linear miles of storm sewer main. The GIS files are updated annually as new work is added or as old work is modified to current standards.** The latest revisions of the maps can be obtained through the Engineering Services Department located at 171 North Ross Street.

B. Illicit Discharge Ordinance

The Environmental Protection Agency (EPA) recommends municipalities implement an ordinance that provides the means to identify and enforce correction of illicit discharges. In the City's NOI, submitted to ADEM in March 2003, the stated goal was to develop and implement an Illicit Discharge Ordinance by December 2005. This goal was met two years ahead of schedule.

A draft copy of the Illicit Discharge Ordinance was reviewed by the ALOA (now ALOAS) Citizens Advisory Committee in November of 2003. A revised draft was forwarded to the City Attorney and Municipal Judge for review in December 2003.

The Auburn City Council adopted the Illicit Discharge Ordinance on January 20, 2004. Revisions were made in 2017 and City Council adopted these revisions in May of 2018. No changes were made to the IDDE ordinance during this reporting period.



The City's IDDE Ordinance may be found at the following link:

https://library.municode.com/al/auburn/codes/code_of_ordinances?nodeId=CO_CH7DR_FLCO

C. Stormwater Outfall Reconnaissance Inventory

In 2009, the Water Resource Management Department began a stormwater outfall reconnaissance inventory (ORI) program. The purpose of this ORI program is to familiarize staff with all receiving waters within the City limits, conduct an inspection of each stormwater outfall and prepare detailed documentation of each stormwater outfall in that basin so that water quality concerns are documented, and corrective actions planned. City staff can document any current illicit discharges and provide more detailed location information concerning existing outfalls. The City's ORI program is patterned on recommendations outlined in the *Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments* (Center for Watershed Protection and Dr. Robert Pitt, October 2004). The City's goal is to inspect (or screen) all of its outfalls every five years (and/or 15% per year). In calendar year 2015 Watershed Division staff began planning for the second phase of its ORI Program. This included purchasing of a LaMotte Smart 3 Colorimeter for enhanced source identification and tracking, development of plans for a small laboratory at the WRM offices, and updates to the ORI tracking application. Upon the initial completion of its inventory, the WRM Department documented and inspected approximately two hundred forty (240) miles of stream and documented approximately one thousand two hundred twenty-eight (1,228) stormwater outfalls in the Saugahatchee, Parkerson Mill, Moores Mill and Town Creek Watersheds. Staff also inspected approximately one hundred fifty (150) sanitary sewer aerial creek crossings and identified approximately eight hundred fifty-eight (858) concerns or potential concerns during the ORI program. Since 2015, the number of outfalls has increased significantly. **During the current reporting year, staff re-screened and/or performed water quality analyses at 242 of the City's one thousand four hundred ninety-three (1519) outfalls representing 16% of all outfalls in the City.** This list is included in Appendix G.

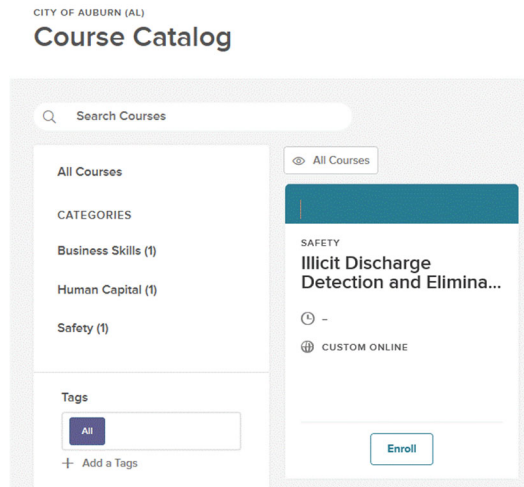


D. Public Education on Illicit Discharges and Improper Disposal

The City of Auburn created an illicit discharge brochure and has made it available to the public for review and/or download via the City's website:

<https://www.auburnalabama.org/water-resource-management/watershed/aloas/>

In addition, the City routinely places articles in the City newsletter, Open Line and social media to educate citizens on illicit discharges. In 2018, the City also began working with its IT Department to develop an employee and citizen online training program for recognizing and responding to illicit discharges. This online training program was made available to all City employees in March 2019. **During this reporting period, the City's Watershed Division personnel had an IDDE refresher training. A total of 4 City Watershed personnel were IDDE trained. Watershed personnel also provided IDDE training to 15 citizens during the Citizen Academy, May 2024. The City is continuing to improve and implement an online training program for citizens.**



E. Hazardous Waste Emergency Response Team

The City maintains a mutual aid agreement with the City of Opelika to share some of the cost of operating an emergency response vehicle equipped to handle hazardous waste spills. The agreement provides the City with the ability to properly identify and address hazardous or potentially hazardous spills. **The mutual aid agreement is still in effect and no revisions were made to the mutual aid agreement during this reporting period.**

F. Water Quality Monitoring Programs

In 2004, the City of Auburn began a water quality monitoring program in an effort to analyze the effectiveness of stormwater best management practices (BMPs) on active construction sites within the City. This program has been significantly expanded over the past 16 years to include a diverse range of monitoring programs and more in-depth water quality monitoring.

The City of Auburn continues its water quality monitoring programs in accordance with its mission and Stormwater Quality Monitoring Plan. Altogether, thousands of data points are collected by City staff and are used to make data-driven decisions for the protection, preservation, and restoration of our local water resources. **For additional information concerning the City's Water Quality Monitoring Program, please see the 2024-2025 Annual Water Quality Monitoring Report included in Appendix D. This Water Quality Monitoring Report is being submitted in accordance with Part V of NPDES General Permit ALR040003.**



VIII. CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

A. Erosion and Sediment Control Ordinance

The City, in conjunction with the City of Opelika and Auburn University, adopted the Erosion and Sediment Control Policy drafted by the ALOA (now ALOAS) Citizens Advisory Committee in 2003. The policy provides for a regional set of rules that can be applied to contractors, developers and engineers in the area.

The Auburn City Council approved additions to the City's Erosion and Sediment Control Ordinance in 2005 to establish protocol for enforcement of the Ordinance and to enable City personnel to issue citations to developers/contractors in violation of the Ordinance. The enforcement mechanisms have proven to be a valuable tool in ensuring compliance with the Ordinance.

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For more information on the City of Auburn’s Erosion and Sediment Control Ordinance, please visit the following:

https://library.municode.com/al/auburn/codes/code_of_ordinances?nodeId=CO_CH7DR_FLCO_ARTIIERSECO

B. Erosion Control Inspections

The City, in an effort to patrol the management of erosion and sediment control measures on active construction sites, initiated a construction site inspection program in 2003. The inspection program is designed to identify deficiencies in erosion control and initiate corrective action. **Approximately 1,878 site erosion and sediment control inspections were performed on 165 sites during the current reporting year (this number**



includes follow-up inspections), resulting in 939 inspection reports, twenty-six (26) 72-Hour Notices of Violation and seven (7) Cease and Desist Orders. The number of inspections performed is relative to development activity and annual rainfall intensity and accumulation patterns. The City’s Water Resource Management Department maintains copies of the inspection reports in an electronic format and are available upon request.

C. Erosion Control Inspection Software

In 2011, staff from the City’s Water Resource Management Department and Information Technology Department created an electronic erosion and sediment control inspection software program. This software gives staff the ability to fill out electronic copies of the erosion control inspection checklist using handheld units while in the field performing inspections. In 2015 Watershed Division staff began working with the City’s IT staff to migrate the erosion and sediment control inspection and enforcement tracking into CityWorks, a GIS-centric asset management

Cityworks						
Inbox Recent Service Requests Work Orders Inspections Permits GIS Search						
V Custom Insp Open Selected Calendar Map View Data Map Refresh						
Step a column header and drop it here to group by that column						
InspectionId	Inspection Type	Date Inspected	Inspected By	Status	Submit To	
115508	ES&S Inspection	04/10/2023 10:58	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115510	ES&S Inspection	04/10/2023 01:40	ROGERS, DUSTIN M	CLOSED	MCURRY JR, R	
115511	ES&S Inspection	04/10/2023 12:10	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115512	ES&S Inspection	04/5/2023 11:25	ROGERS, DUSTIN M	CLOSED	MCURRY JR, R	
115513	ES&S Inspection	04/10/2023 02:02	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115514	ES&S Inspection	04/5/2023 03:35	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115515	ES&S Inspection	04/4/2023 04:02	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115516	ES&S Inspection	04/4/2023 03:45	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115517	ES&S Inspection	04/4/2023 03:52	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115518	ES&S Inspection	04/11/2023 01:34	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115519	ES&S Inspection	04/11/2023 01:30	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115520	ES&S Inspection	04/5/2023 12:40	ROGERS, DUSTIN M	CLOSED	MCURRY JR, R	
115521	ES&S Inspection	04/4/2023 10:20	ROGERS, DUSTIN M	CLOSED	MCURRY JR, R	
115522	ES&S Inspection	04/4/2023 04:33	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115523	ES&S Inspection	04/10/2023 12:56	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115524	ES&S Inspection	04/5/2023 02:16	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115525	ES&S Inspection	04/5/2023 11:00	ROGERS, DUSTIN M	CLOSED	MCURRY JR, R	
115526	ES&S Inspection	04/4/2023 09:35	ROGERS, DUSTIN M	CLOSED	MCURRY JR, R	
115527	ES&S Inspection	04/11/2023 11:10	MCURRY JR, RONALD G	CLOSED	MCURRY JR, R	
115528	ES&S Inspection	04/11/2023 10:20	ROGERS, DUSTIN M	CLOSED	MCURRY JR, R	
115529	ES&S Inspection	04/4/2023 02:30	ROGERS, DUSTIN M	CLOSED	MCURRY JR, R	
115530	ES&S Inspection	04/4/2023 09:29	ROGERS, DUSTIN M	CLOSED	MCURRY JR, R	
115531	ES&S Inspection	04/11/2023 09:50	ROGERS, DUSTIN M	CLOSED	MCURRY JR, R	
115532	ES&S Inspection	04/5/2023 11:55	ROGERS, DUSTIN M	CLOSED	MCURRY JR, R	

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software. Watershed Division staff began using this software exclusively in 2016 and continued to use this software during the 2024-2025 reporting year.

D. Residential Erosion Control

The City now issues an Erosion and Sediment Control Permit that allows for minimal clearing to install the approved BMPs onsite. This minimizes the clearing and grading work that sometimes occurred in the past prior to getting the site BMPs installed. The City's Inspection Services Department conducts an initial site inspection for all building construction in Auburn. Lots requesting the initial inspection must have a construction entrance and other necessary best management practices (BMPs) in place prior to authorizing foundation construction. Deficiencies noted during the initial inspection are relayed to the building permit applicant for correction. **During the current reporting year, 1077 pre-ESC lot level inspections were performed and of those inspections, 208 failed the pre-permitting inspection which in turn held the permit issuance until the BMPs were properly implemented.**



The City's Inspection Services Department also inspects stormwater BMPs during the building phase inspections. If there is a minor deficiency with the stormwater BMPs, then the inspector will require the contractor to correct the issue prior to the next inspection. If the issue has not been corrected by the next inspection, the subsequent inspection will not be performed. If there is a major deficiency with the stormwater BMPs, then the inspector will not perform the requested inspection and have the contractor correct the deficiency immediately. **During the current reporting year, 471 lot level soil erosion inspections were performed and of those inspections, 283 failed the soil erosion inspection which in turn held the permit issuance until the BMPs were properly implemented.**

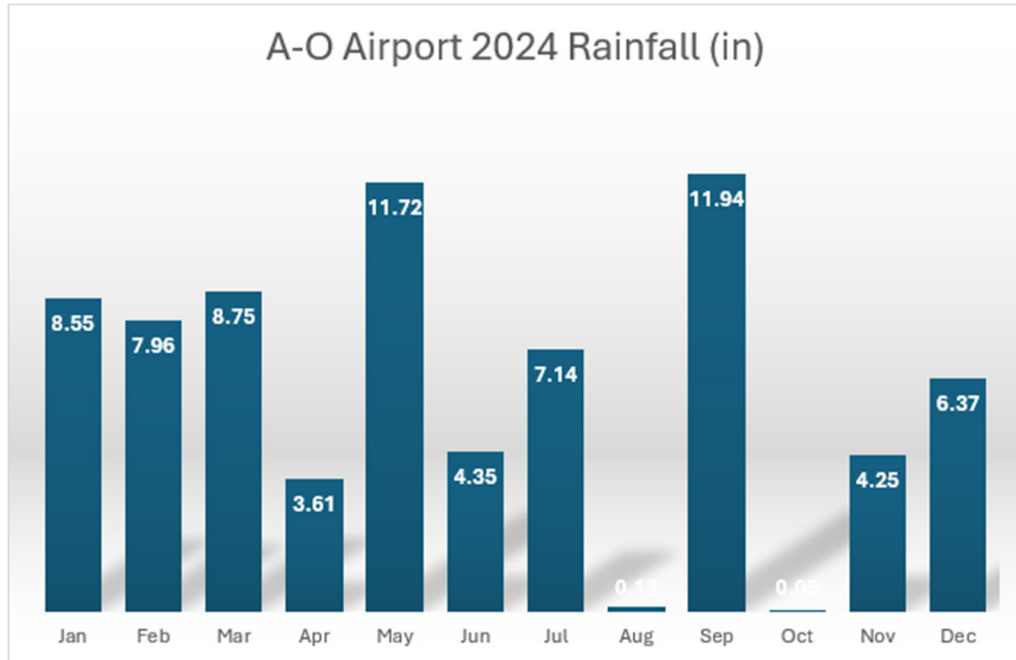
E. Rainfall Data Collection

In 2005, the City began maintaining historical rainfall data records. The data is obtained through a subscription to the Agricultural Weather

Information System (AWIS) website. AWIS records daily weather data from the NOAA weather station at the Auburn University Regional Airport. Daily rainfall data is also collected at the City's two water pollution control facilities, as well as at Lake Ogletree and the James Estes Water Treatment Plant. During 2021, the Watershed Division implemented additional rain gauges (HOBOLINK) at strategic areas within Auburn to help

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calculate rain events (3/4" within 24-hour period) to commence construction site “rain-event” inspections. Watershed staff will continue to assess areas within Auburn to implement additional rain gauges during this next reporting period. Details regarding rainfall during this reporting period can be found in the Water Quality Monitoring Report included in Appendix D of this report. **For the 2024 year, the City of Auburn received 74.82” of rain which is the highest yearly total since 2020 (Airport Gauge).**



IX. POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

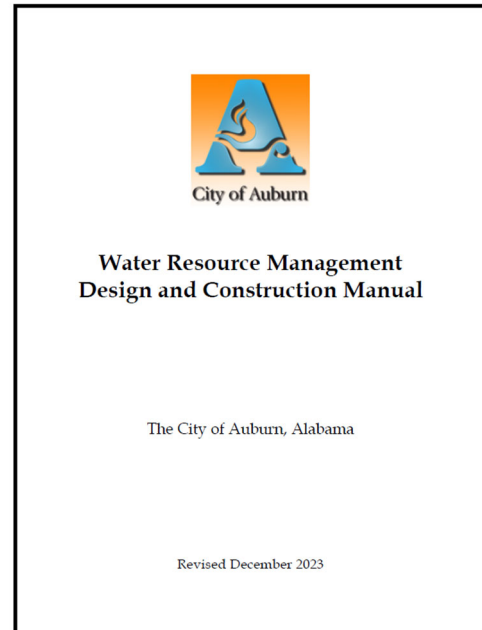
A. Engineering Design and Construction Manuals

In April 2003, the City of Auburn published a Stormwater Design Manual that effectively addressed stormwater runoff controls required for sites greater than one acre. The manual identified project requirements and specifications for new infrastructure and also addressed the requirements for stormwater system sizing and stormwater runoff control/detention. During its implementation, the manual proved to be a very successful tool for the City and developers. The Water Resource Management Department contracted with CH2M Hill to develop an Engineering Design Manual in 2008 that includes engineering design criteria for sewer and water infrastructure, as well as stormwater BMPs for water quality protection such as rain gardens and stormwater wetlands. The Water Resource

Management Design Manual also simplifies the City’s regulations regarding restrictions on development in steep slope areas. The Public Works Department also developed a comprehensive Engineering Design Manual. The Stormwater Design Manual has been updated and included as an appendix in the Public Works Manual. Both the Public Works and Water Resource Management Design and Construction Manuals were adopted by the City Council in November 2010 and became effective on January 1, 2011. Reviews of these manuals have been performed annually during the first fiscal quarter (October-December) prior to January 2022. After January 2022, reviews will be done annually, but revisions will be made biennial. **Revisions for the current Water Resource Management Design and Construction Manual were made in December 2023, were adopted by City Council in February of 2024, and were effective March 1, 2024. No revisions have been made during this reporting period.**

For more information on the City of Auburn’s Water Resource Management Design and Construction Manual, please visit the following:

<https://www.auburnalabama.org/water-resource-management/design-and-construction-manual/>



B. Stream Buffer Regulations

As part of the Erosion and Sediment Control Ordinance adopted by the City Council in July 2002, a minimum 25-foot non-disturbed vegetative buffer zone was required for new developments on “blue line” streams and creeks identified on USGS 7.5-minute topographic maps. In May 2006, the City Council adopted new Stream Buffer regulations. The 2006 buffer regulations were based on a managed-use type buffer rather than a strict non-disturbed buffer approach. The 2006 regulations implement a 3-zoned buffer (streamside zone, managed use zone and upland zone) with the width of the buffer being based on the drainage area of the stream. A copy of the 2006 regulations can be found under Article IV in the City’s Zoning Ordinance on the City’s website. Greater than 656 acres of riparian corridors have been set aside since the adoption of the new regulations.

City of Auburn Application for Stream Buffer Encroachment and Mitigation <small>per Article IV, Section 413 of the City of Auburn Zoning Ordinance</small>	
Applicant's Name	Owner's Name
Applicant's Phone Number	Owner's Phone Number
Applicant's Email Address	Owner's Email Address
Address and/or Lot Number(s) and Subdivision Name Where Encroachment is Requested (Hereafter Referenced as "Lot")	
Question 1 Was this lot platted and recorded prior to May of 2006? Yes No	
Question 2 Was this lot subdivided, redivided, or otherwise modified after May of 2006? Yes No	
<small>*If the answer is "No" to question 1 and/or "Yes" to question 2, the applicant must demonstrate that "there are exceptional situations or physical conditions on the parcel that pose practical difficulty to its development and restrict the application of the regulations" (Article IV, Section 413.09)</small> Describe below the "exceptional situation" and/or "physical condition" posing practical difficulty:	

During this reporting period, the City reviewed 44 development plans for compliance with the stream buffer ordinance. The table below provides the City’s current stream buffer requirements.

Stream Buffer Requirements				
Drainage Area (Watershed) Designation	Streamside Zone	Managed Use Zone	Upland Zone	Total Buffer Width on each side of Stream
< 100 acres	25 feet	None	10 feet	35 feet
≥ 100 acres and ≤ 300 acres	25 feet	None	20 feet	45 feet
≥ 300 acres and ≤ 640 acres	25 feet	20 feet	10 feet	55 feet
≥ 640 acres	25 feet	50 feet	25 feet	100 feet

C. Post-Construction BMP Inspections

Existing post-construction BMPs need periodic inspections to evaluate the maintenance and operation of these vital components of the City’s drainage system. Because vast quantities of stormwater are collected and passed through detention ponds every year, inspections of these facilities can identify potential problems and illicit discharges.

The Engineering Services Department and the Water Resource Management Department conduct annual inspections of all detention ponds (public and private) listed in the stormwater database. Upon inspection, the owner of the pond is notified of any corrective action needed. Enforcement measures are taken if the owner does not address the items listed in the report. **The number of detention ponds that were inspected by the City within the 2024-2025 reporting period was three hundred ten (310) ponds.**



D. Conservation Subdivision Regulations

In 2006, staff members from the Planning Department, Water Resource Management Department, Public Works Department and Parks and Recreation Department began developing conservation subdivision regulations to aid in the protection of local water resources. These regulations were approved by the Auburn City Council in 2007. The regulations promote water resource protection through the setting aside of open space and concentrating development away from water resources. The ordinance and subdivision regulations promote the use of low impact design concepts to protect natural resources in the Auburn area. While developer interest for conservation subdivisions has not been strong to this point, the City continues to promote conservation subdivisions and low impact development principles for developments within the City of Auburn. These

ARTICLE VI. CONSERVATION SUBDIVISION

A. Purposes of Conservation Subdivision

1. To promote efficient uses of the land to protect and preserve environmentally sensitive areas and Auburn's portable water supply source.
2. To preserve in perpetuity unique or sensitive natural resources such as groundwater, floodplains, wetlands, streams, watersheds, woodlands and wildlife habitat.
3. To permit clustering of buildings and structures on less environmentally sensitive soils in order to reduce the amount of infrastructure, including paved surfaces and utility easements, necessary for residential development.
4. To reduce erosion and sedimentation by minimizing land disturbance and removal of vegetation in residential development.
5. To promote interconnected greenways and corridors throughout the community.
6. To provide flexibility to allow for creativity in developments.
7. To encourage a more efficient form of development that consumes less open land and conforms to existing topography and natural features.
8. To protect water quality in the Lake Ogeetee Subwatershed.
9. To reduce cost associated with infrastructure (roads, sidewalks, and utilities) and land preparation required by compact conservation designs (Mohamed, 2006; Fowler & Wenger, 2001; Arendt, 1996).

B. General Regulations

1. **Applicability of Regulations.** From and after the effective date of the Conservation Subdivision Regulations, all divisions of land in the subdivision jurisdiction which lie within the Lake Ogeetee Subwatershed that are ten (10) acres or more, and where the division creates more than four lots, shall have the option of being prepared and presented for approval in accordance with these regulations. These regulations shall also be available as an option in other areas of the planning jurisdiction. Land within the corporate limits must be zoned as Conservation Overlay District (COD) to apply the conservation subdivision regulations (See the City of Auburn Zoning Ordinance, Section 518, Conservation Overlay District). Applicant shall comply with all other provisions of the zoning ordinance in zoned areas and all other applicable laws, except those that are incompatible with the provisions contained herein.
2. **Minimum Land Area for a Conservation Subdivision.** The minimum land area for a conservation subdivision is 10 contiguous acres. The Planning Commission and/or City Council may consider smaller parcels, greater than or equal to five acres but less than 10 acres, if the applicant can demonstrate one of the following: (1) the proposed Open Space provides a connection between unconnected existing open space, greenspace, or other protected natural resource areas and will not result in isolated fragments of open space; or (2) the proposed Conservation Subdivision would ensure a unique natural or historical significant area will be protected.
3. **Housing Density Determination.** The maximum number of lots in the Conservation Subdivision shall be determined by the density of the underlying zoning district or by dividing the gross area of the proposed conservation subdivision by the minimum lot size allowed for a subdivision within the Planning Jurisdiction or the watershed as set forth in Article IV, Section E (2) of these regulations.

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regulations can be downloaded from the City's website at <https://www.auburnalabama.org/planning/development-services/subdivision-regulations/>.

E. Site Development Review Tool

In 2006, the Water Resource Management Department contracted with CH2M Hill to develop a Site Development Review Tool (Tool) that could be utilized by local engineers when designing stormwater BMPs on developments within the City. This Tool was modeled on a similar tool created by CH2M Hill for Gwinnett County, Georgia.

The Tool was developed using a Microsoft Excel platform and can be used by engineers and developers to design and incorporate structural stormwater BMPs for developments within Auburn's planning jurisdiction boundaries and to maximize the efficiency of runoff pollutant management following construction of developments. This Tool can also be used to meet the target pollutant removal efficiencies outlined in the City's Conservation Subdivision Regulations.

The Tool provides pollutant removal estimates for site specific conditions based on removal efficiencies for a variety of stormwater BMPs including detention ponds, bioretention areas (i.e., rain gardens) and stormwater wetlands. This Tool analyzes a variety of stormwater pollutants including nutrients (phosphorus and nitrogen) and total suspended solids. City staff utilize the Tool during the plan review process to analyze development impacts on water quality within its water supply protection area (Lake Ogletree watershed). This Tool is also used by engineers when submitting water quality plans for developments located in the Saughatchee Creek Watershed, the Parkerson Mill Creek Watershed, the Moores Mill Creek Watershed or the Lake Ogletree Watershed to assist them in determining if their post-development stormwater controls meet the City's applicable pollutant removal criteria. A copy of the Tool can be downloaded at <https://www.auburnalabama.org/water-resource-management/standard-development-forms/>. During the 2024-2025 reporting year, the City reviewed approximately twenty-three (23) stormwater quality site development review tools.

City of Auburn
Stormwater Quality Site Development Review Tool

General Information

Name of Developer:	SOUTHERN STATES BANK	Date Submitted:	11/5/2014
Development Name:	SOUTHERN STATES BANK	Permit Number:	
Site Location / Address:	INTERSECTION OF N DEAN AND OBELEKA ROAD	Developer Contact:	
Development Type:	Commercial/Retail	Phone Number:	
Area of Development (acres):	1.08	Name of Engineer(s):	
		Maintenance Responsibility:	

Summary of Site and Structural Control Information

Land Use Distribution Error

Number of Drainage Areas: 1

Sum of Drainage Areas (ac): 1.07

Total (IA) Impervious Area (ac): 0.55

Total (CP) Disturbed Pervious Area (ac): 0.33

Total (NC) Natural Conservation Area (ac): 0.41

Percent Imperviousness (%): 51%

TSS Reduction

Total TP Reduction (%): 51% Meets Goal TP

Official Use Only

Tracking #

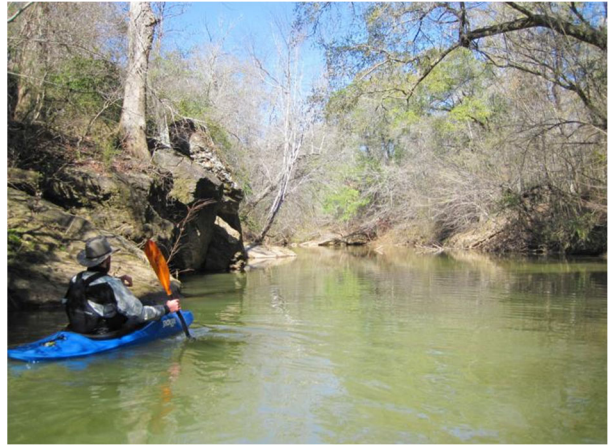
Reviewed By:

Date Approved:

Conditions of Approval:

F. Saugahatchee Greenway + Blueway Project

Saugahatchee Creek is identified as a Primary Greenway Corridor in the City’s Greenway and Greenspace Master Plan. In 2015 the City began performing the necessary feasibility assessments for the development of both a greenway and blueway component of this corridor. Staff have evaluated approximately six (6) miles of Saugahatchee for floatability and over six (6) miles of existing sanitary sewer easement for trail alignment. **The Saugahatchee Creek Phase 1a, which is the section from Donahue Drive to**



Yarborough Farms, was advertised for bid in March 2023. Commencement for this phase which includes a trailhead, parking, and a canoe/kayak drop in was anticipated to begin during late 2023 to early 2024 but has been placed on hold at this time.

X. POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

A. Stormwater Management Training

The City of Auburn continues to develop a training program that provides the Water Resource Management Department and other City departments with information on the proper methods for implementing site control measures on all municipal projects. City personnel also attend a variety of stormwater/water quality related conferences, workshops, and seminars annually.

Training opportunities during this reporting year included:

- **AL/MS Joint Water Conference** – This conference was located in Mobile, Alabama and occurred April 7-10, 2024. Eric Carson, Matt Dunn, and Mikel Thompson all of the Water Resource Management, were in attendance.
- **Municipal Wet Weather Stormwater Conference** – Hosted by IECA, located in Auburn, Alabama in May 2024, four City Watershed personnel (Dusty Kimbrow, Dustin Rogers, Marla Smith and Ron McCurry) attended this conference.
- **Groundwater Conference 2024** – Hosted by ADEM, located in Wetumpka, Alabama in August 2024, Tim Johnson attended this conference.
- **Alabama Water Resource Association (AWRA) Conference** - In September 2024, two City Watershed personnel (Dustin Rogers and Ron McCurry) attended this conference.
- **Alabama Department of Environmental Management (ADEM) Annual Surface Water Meeting (24th)** – Tim Johnson attended this conference October 17-18, 2023.
- **Erosion and Sediment Control Workshop (Forestry BMPs)** – Hosted by ALOAS, and attended by Marla Smith, Dustin Rogers, Dusty Kimbrow, and Ron McCurry on December 13, 2024
- **ADEM Choctawhatchee River Basin Conference (Harford, AL)** – In March, 2025, Dusty Kimbrow attended this one day conference.
- **Qualified Credentialed Inspector Training** – The City of Auburn, over various Departments, has numerous City employees that maintain Qualified Credentialed Inspector (QCI) certification. This certification requires annual refresher training, for which all QCI certified personnel must perform to retain certification. In

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addition to QCI certified staff, the City has numerous professionals who qualify as Qualified Credentialed Professionals (QCP) through existing certifications. **In 2024-2025, five (5) WRM staff have maintained their QCI certifications. Also, two Watershed Division personnel have maintained their Certified Professional Erosion and Sediment Control (CPESC) certifications and have both received their Certified Erosion Sediment Storm Water Inspector (CESSWI), and another Watershed Division staff member has received their Certified Professional Storm Water Quality (CPSWQ) certification.**

B. Spill Response and Prevention Training

The City of Auburn has developed an in-house spill response training program. Staff from Water Resource Management and Public Works' Construction Management and Fleet Services Divisions routinely inspect their respective facilities for proper containment and signage associated with storage of petroleum products. Additionally, staff attend annual training on Spill Prevention, Control, and Countermeasure (SPCC) to ensure that they are prepared to respond to discharges in an appropriate manner.



C. Risk Management Manual

The City's Human Resources Department has developed a manual outlining specific requirements/policies for dealing with hazardous chemicals. Topic 12 (titled Hazard Communication Program) of the City's Risk Management Manual specifically requires City personnel to receive training on hazardous chemicals used. Safety Data Sheets (SDS) identifying personal protective equipment, permissible exposure limits (PEL) and Threshold Limit Values (TLV) are required for all hazardous chemicals used. The Hazard Communication Program was adopted as part of the Risk Management Manual.

D. Municipal Operations Recycling

It has been standard policy to encourage individual Departments to participate in the City's recycling program. Recyclable waste generated through City activities is collected and processed through the City's recycling center located on Donahue Drive. This recycling center accepts the following recyclables 24 hours a day, 365 days a year: aluminum cans; flattened cardboard; paper (all types); steel/tin cans; batteries (transistor only up to size D); cellular phones; cooking grease/oil; green glass; magazines/telephone books; mixed office paper; and plastics #1-#7.

Computer equipment and other electronics (not TVs) may also be recycled, but an appointment must be made as these items require special handling.



In 2017, the City transitioned to single-stream recycling with 5,600 containers. Using 95-gallon containers/carts, citizens can place all recyclables into one container and place them at the curbside on their scheduled garbage collection day. Acceptable single-stream materials include: aluminum cans; flattened cardboard; paper (all types); plastic #1 through #7 and steel/tin cans. **As of March 2025, the City services a total of 16,841 curbside recycling households. During this reporting period, the City recycled approximately 2,071 tons of single-stream recyclables.**

E. Street Sweeping & Litter Control

Regular street sweeping has been proven as an effective means to reduce overall pollutant loading from roads and storm sewer systems. The Right of Way Maintenance Division of the City's Public Works Department currently performs street sweeping measures on a 4-week rotating basis, barring uncontrollable circumstances. **During this reporting period, the City swept streets and parking lots totaling 21,669 miles within the City, thereby removing approximately 778 tons of debris from the road. Additionally, the City removed 8,249 bags of litter from 922 miles of right-of-way through community service.**



F. Alabama Certified Pesticides Applicator

The Parks and Recreation Department of the City maintains trained and certified personnel in the application of pesticides, including restricted-use pesticides. Although qualified to do so, the Parks and Recreation Department has not used any restricted-use pesticides in the previous decade. In order to maintain certification with the State of Alabama, the staff must document and complete 30 continuing education units (CEUs) over a three-year period. CEUs are earned at various conferences and workshops such as the Alabama Turfgrass Conference, Alabama Department of Transportation workshops, the Sports Turf Short Course and the Alabama Urban Forestry Association's Annual Conference. The CEUs cover the application of pesticides, information on the proper use of fertilizers and other chemicals typically used to maintain athletic fields, and best management practices for trees/shrubs/turf that are intended to reduce the need for pesticides, fertilizers, and irrigation.

G. Municipal Facilities Inventory and Good Housekeeping Inspections

In 2017 the City completed an initial inventory and desktop assessment of all its properties and physical facilities, including an assessment of stormwater knowledge of the persons responsible for management and upkeep. The purpose of this inventory and assessment is to evaluate each property’s respective potential to contribute to stormwater pollution, and to identify site-specific best management practices to improve maintenance and operation of these properties and facilities to reduce that potential. A total of 128 properties are currently owned and managed by the City. Of these 128 properties, 76 are developed (varying intensity) and 52 are in an undeveloped/natural condition. In 2018, the City re-evaluated the 128 properties, and determined that of the 128 properties, a total of 63 City properties have the potential to discharge pollutants via stormwater runoff. An updated table of City facilities and/or properties may be found in Appendix F. Several City projects are under construction at this time and will be added to the municipal facilities list once completed. The number of facilities did not change as the original list had the property listed with a description of a road, but now has the property listed by the building name or park name. **During this reporting period, all 63 City properties were inspected with minimal deficiencies which have since been addressed.**



XI. ENVIRONMENTAL PROJECTS

In the 2024-2025 report year, the City continued to make considerable progress toward incorporating low impact development and green infrastructure for its projects within the City of Auburn. A listing of projects completed is included below, along with projects under construction, and projects under design and/or consideration.

A. Stormwater Projects Completed during the 2024-2025 reporting period

- Lake Wilmore Community Center Phase I
 - Bioretention Cells
 - Rain Gardens
 - Permeable Pavers
- Martin Luther King Drive Streetscape—Shug to Donahue
 - Grassed/shrub/tree islands

PROTECT – PRESERVE - RESTORE

B. Stormwater Projects Scheduled for construction during the 2025-2026 reporting period

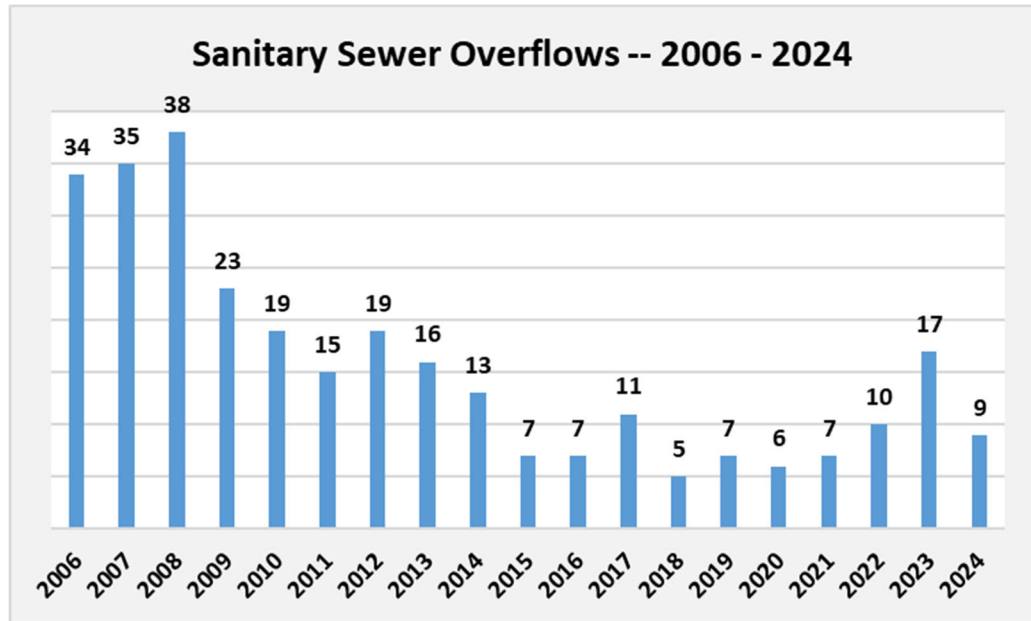
- Lake Wilmore Community Center Phase II
 - Bioretention Cells
 - Rain Gardens
 - Permeable Pavers
- Boykin Community Center Campus Expansion
 - Bioretention Cells
 - Permeable Pavers
- Pearson Park
 - Grassed Swales
 - Bioretention Cells

C. Stormwater Projects Under Design and/or Consideration

- Hickory Dickory Park Grant Proposal (Partnered with Auburn University/City of Opelika)
 - Stream Bank Restoration
 - Bioretention Cells
 - Previous Pathways

D. Sanitary Sewer Rehabilitation Projects

Several years ago, the City began implementation of a program to identify and rehabilitate aging sanitary sewer infrastructure in the City of Auburn. The primary purpose of this program is to rehabilitate aging infrastructure, prevent sanitary sewer overflows (SSOs) and reduce inflow and infiltration (I/I). The City actively addresses these issues through various sanitary sewer evaluation surveys and rehabilitation projects. **Efforts to rehabilitate aging infrastructure have reduced SSOs substantially since 2006. During this reporting period, the City had nine (9) reportable SSOs.**



APPENDIX A

2021 PHASE II STORMWATER PERMIT



Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

September 12, 2016

Honorable Bill Ham, Jr.
Mayor, City of Auburn
144 Tichenor Ave., Suite 1
Auburn, Alabama 36830

Re: Municipal Separate Storm Sewer System (MS4) Phase II General Permit
NPDES Permit No. ALR040003
Lee County (081)

Dear Mayor Ham:

The Department has made a final determination to reissue General NPDES Permit No. ALR040000 for discharges from regulated small municipal separate storm sewer systems. The reissued permit will become effective on October 1, 2016 and will expire on September 30, 2021.

The Department notified the public of its tentative determination to reissue General NPDES Permit No. ALR040000 on November 18, 2015. Interested persons were provided the opportunity to submit comments on the Department's tentative decision through December 18, 2015. In accordance with ADEM Admin Code r. 335-6-6-.21(7), a response to all comments received during the public comment period will be available on the Department's efile system.

Based on your request, as evidenced by the submittal of a Notice of Intent, coverage under the General NPDES Permit No. ALR040003 is granted. The effective date of issuance coverage is October 1, 2016.

Coverage under this permit does not authorize the discharge of pollutant or non-stormwater that is not specifically identified in the permit and by the Notice of Intent which resulted in granting this coverage.

You are responsible for compliance with all provisions of the permit, including, but not limited to, the performance of any monitoring (if applicable), the submittal of any reports, and the preparation and implementation of any plans required by the permit. Part II.A.4. of the re-issued permit requires the submittal of an updated Stormwater Management Program Plan (SWMPP) within three months of the issuance date of this permit (January 1, 2017).

If you have any additional questions or concerns, please contact Marla Smith by email at mssmith@adem.state.al.us or by phone at 334-270-5616.

Sincerely,

Jeffery W. Kitchens, Chief
Stormwater Management Branch
Water Division

JWK/mss

File: FPER/1207

Enclosure: Final Permit ALR040003

Cc: Ms. Kacy Sable, EPA (via email)
Mr. Dan Ballard, City of Auburn (via email)





NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

DISCHARGE AUTHORIZED: STORMWATER DISCHARGES FROM REGULATED
SMALL MUNICIPAL SEPARATE STORM SEWER
SYSTEMS

AREA OF COVERAGE: THE STATE OF ALABAMA

PERMIT NUMBER: ALR040003

RECEIVING WATERS: ALL WATERS OF THE STATE OF ALABAMA

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1378 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.

ISSUANCE DATE: SEPTEMBER 6, 2016

EFFECTIVE DATE: OCTOBER 1, 2016

EXPIRATION DATE: SEPTEMBER 30, 2021

GIENNA L. DEAN

Alabama Department of Environmental Management

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PART I Coverage Under This General Permit

A. Permit Coverage

This permit covers the urbanized areas designated as a Phase II Municipal Separate Storm Sewer System (MS4) within the State of Alabama.

B. Authorized Discharges

1. This permit authorizes discharges of storm water from small MS4s, as defined in 40 CFR Part 122.26(b)(16). An entity may discharge under the terms and conditions of this general permit if the entity:
 - a. Owns or operates a small MS4 within the permit area described in Section A;
 - b. Is not a “large” or “medium” MS4 as described in 40 CFR Part 122.26(b)(4) or (7);
 - c. Submits a Notice of Intent (NOI) in accordance with Part II of this general permit; and
 - d. Either:
 - i. Is located fully or partially within an urbanized area as determined by the latest Decennial Census by the Bureau of Census, or
 - ii. Is designated for permit authorization by the Department pursuant to 40 CFR Part 122.32(a)(2).
2. This permit authorizes the following non-storm water discharges provided that they do not cause or contribute to a violation of water quality standards and that they have been determined not to be substantial contributors of pollutants to a particular small MS4 applying for coverage under this permit and that is implementing the storm water management program (SWMP) set forth in this permit:
 - a. Water line flushing
 - b. Landscape irrigation
 - c. Diverted stream flows
 - d. Uncontaminated ground water infiltration
 - e. Uncontaminated pumped groundwater
 - f. Discharges from potable water sources
 - g. Foundation drains
 - h. Air conditioning condensate
 - i. Irrigation water (not consisting of treated, or untreated, wastewater)
 - j. Rising ground water
 - k. Springs
 - l. Water from crawl space pumps
 - m. Footing drains
 - n. Lawn watering runoff
 - o. Individual residential car washing, to include charitable carwashes

- p. Residual street wash water
- q. Discharge or flows from firefighting activities (including fire hydrant flushing)
- r. Flows from riparian habitats and wetlands
- s. Dechlorinated swimming pool discharges, and
- t. Discharges authorized and in compliance with a separate NPDES permit.

C. Prohibited Discharges

The following discharges are not authorized by this permit:

1. Discharges that are mixed with sources of non-storm water unless such non-storm water discharges are:
 - a. In compliance with a separate NPDES permit; or
 - b. Determined by the Department not to be a significant contributor of pollutants to waters of the State;
2. Storm water discharges associated with industrial activity as defined in 40 CFR Part 122.26(b)(14)(i)-(ix) and (xi);
3. Storm water discharges associated with construction activity as defined in 40 CFR Part 122.26(b)(14)(x) or 40 CFR 122.26(b)(15) and subject to Alabama Department of Environmental Management (ADEM) Code r. 335-6-12;
4. Storm water discharges currently covered under another NPDES permit;
5. Discharges to territorial seas, contiguous zone, and the oceans unless such discharges are in compliance with the ocean discharge criteria of 40 CFR Part 125, Subpart M;
6. Discharges that would cause or contribute to instream exceedances of water quality standards; Your storm water management program plan (SWMPP) must include a description of the Best Management Practices (BMPs) that you will be using to ensure that this will not occur. The Department may require corrective action or an application for an individual permit if an MS4 is determined to cause an instream exceedance of water quality standards;
7. Discharges of any pollutant into any water for which a total maximum daily load (TMDL) has been approved or developed by EPA unless your discharge is consistent with the TMDL; This eligibility condition applies at the time you submit a NOI for coverage. If conditions change after you have permit coverage, you may remain covered by the permit provided you comply with the applicable requirements of Part V. You must incorporate any limitations, conditions and requirements applicable to your discharges, including monitoring frequency and reporting required, into your SWMPP in order to be eligible for permit coverage. For discharges not eligible for coverage under this permit, you must apply for and receive an individual or other applicable general NPDES permit prior to discharging;
8. This permit does not relieve entities that cause illicit discharges, including spills, of oils or hazardous substances, from responsibilities and liabilities under State and Federal law and regulations pertaining to those discharges.

D. Obtaining Authorization

1. To be authorized to discharge storm water from small MS4s, you must submit a Notice of Intent (NOI) and a description of your storm water management program (SWMP) in accordance with the deadlines presented in Part II of this permit.
2. You must submit the information required in Part II on the latest version of the NOI form (or photocopy thereof). Your NOI must be signed and dated in accordance with Part VII of this permit.
3. No discharge under the general permit may commence until the discharger receives the Department's acknowledgement of the NOI and approval of the coverage of the discharge by the general permit. The Department may deny coverage under this permit and require submittal of an application for an individual NPDES permit based on a review of the NOI.
4. Where the operator changes, or where a new operator is added after submittal of an NOI under Part II, a new NOI must be submitted in accordance with Part II within thirty (30) days of the change or addition.
5. For areas extended within your MS4 by the latest census or annexed into your MS4 area after you received coverage under this general permit, the first annual report submitted after the annexation must include the updates to your SWMP, as appropriate.

Note: If the Department notifies the dischargers (directly, by the public notice, or by making information available on the Internet) of other NOI form options that become available at a later date (e.g., electronic submission of forms), you may take advantage of those options to satisfy the NOI use and submittal requirements in Part II.

E. Implementation

1. This permit requires implementation of the MS4 Program under the State and Federal NPDES Regulations. MS4s shall modify their programs if and when water quality considerations warrant greater attention or prescriptiveness in specific components of the municipal program.
2. If a small MS4 operator implements the minimum control measures in 40 CFR 122.34(b) and the discharges are determined to cause or contribute to non-attainment of an applicable water quality standard as evidenced by the State of Alabama's 303(d) list or an EPA-approved or developed Total Maximum Daily Load (TMDL), the operator must tailor its BMPs within the scope of the six minimum control measures to address the pollutants of concern and implement permit requirements outlined in Part IV.D. and Part V of this permit.
3. Existing MS4s, unless otherwise stated within this permit, shall implement each of the minimum control measures outlined in Part III.B. of this permit immediately upon the effective date of coverage. Newly designated MS4s, unless otherwise stated in this permit, shall implement the minimum control measures outlined in Part III.B. of this permit within

365 days of the effective date of coverage. However, for newly designated MS4s, where new or revised ordinances are required to implement any of the minimum control measures, such ordinances shall be enacted within 730 days from the effective date of coverage.

PART II Notice of Intent (NOI) Requirements

A. Deadlines of Applications

1. If you are automatically designated under 40 CFR Part 122.32(a)(1) or designated by the Department, then to request recoverage, you are required to submit an NOI or an application for an individual permit and a description of your SWMP at least 90 days before the expiration of this permit.
2. If you are designated by the Department after the date of permit issuance, then you are required to submit an NOI or an application for an individual permit and a description of your SWMP within 180 days upon notification. Within six months of initial issuance, the operator of the regulated small MS4 shall submit a storm water management program plan (SWMPP) to the Department for review. A SWMPP can be submitted electronically in a .PDF format, or in another prescribed manner acceptable to the Department that contains all necessary components
3. You are not prohibited from submitting an NOI after the dates provided in Part II.A.1-2. If a NOI is submitted after the dates provided in Part II.A.1-2., your authorization is only for discharges that occur after permit coverage is granted. The Department reserves the right to take appropriate enforcement actions for any unpermitted discharges.
4. Within three months of the date of re-issuance of coverage under this permit, all operators of regulated small MS4s shall submit a revised storm water management program plan (SWMPP) to the Department for review.
5. **On or after December 21, 2020, all NOIs shall be made electronically in a prescribed manner acceptable to the Department.**

B. Continuation of the Expired General Permit

If this permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with the ADEM Code r. 335-6-6 and remain in force and effect if the Permittee re-applies for coverage as required under Part II of this Permit. Any Permittee who was granted permit coverage prior to the expiration date will automatically remain covered by the continued permit until the earlier of:

1. Reissuance or replacement of this permit, at which time you must comply with the Notice of Intent conditions of the new permit to maintain authorization to discharge; or
2. Issuance of an individual permit for your discharges; or
3. A formal permit decision by the Department not to reissue this general permit, at which time you must seek coverage under an alternative general permit or an individual permit.

C. Contents of the Notice of Intent (NOI)

The Notice of Intent must be signed in accordance with Part VII.G of this permit and must include the following information:

1. Information on the Permittee:
 - a. The name of the regulated entity, specifying the contact person and responsible official, mailing address, telephone number and email address; and
 - b. An indication of whether you are a Federal, State, County, Municipal or other public entity.
2. Information on the MS4:
 - a. the name of your organization, county, city, or town and the latitude/longitude of the center or the MS4 location;
 - b. The name of the major receiving water(s) and an indication of whether any of your receiving waters are included on the latest 303(d) list, included in an EPA-approved and/or EPA developed total maximum daily load (TMDL) or otherwise designated by the Department as being impaired. If you have discharges to 303(d) or TMDL waters, a certification that your SWMPP complies with the requirements of Part V;
 - c. If you are relying on another governmental entity, regulated under the storm water regulations (40 CFR Part 122.26 & 122.32) to satisfy one or more of your permit obligations (see Part III), the identity of that entity(ies) and the elements(s) they will be implementing. The Permittee remains responsible for compliance if the other entity fails to fully perform the permit obligation, and may be subject to enforcement action if neither the Permittee nor the other entity fully performs the permit obligation; and
 - d. Must include if you are relying on the Department for enforcement of erosion and sediment controls on qualifying construction sites in accordance with Part III.B.3.b.
3. Include a brief summary of the best management practices (BMPs) for the minimum control measures in Part III of this permit (i.e. a brief summary of the MS4's SWMPP), your timeframe for implementing each of the BMPs, and the person or persons responsible for implementing or coordinating your SWMPP.

D. Where to Submit MS4 Documents

You are to submit your NOI or individual application, and a description of your SWMP as allowed under Part II.A., signed in accordance with the signatory requirements of Section VII of this permit, to the Department at the following address:

**Alabama Department of Environmental Management
Water Division
Storm Water Management Branch
Post Office Box 301463
Montgomery, Alabama 36130-1463**

Certified and Registered Mail shall be addressed to:

**Alabama Department of Environmental Management
Water Division
Storm Water Management Branch
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2059**

On or after December 21, 2020, all NOIs shall be made electronically in a prescribed manner acceptable to the Department.

PART III Storm Water Pollution Prevention and Management Program for Small MS4s

A. Storm Water Management Program (SWMP)

1. The Permittee is required to develop, revise, implement, maintain and enforce a storm water management program (SWMP) which shall include controls necessary to reduce the discharge of pollutants from its MS4 consistent with Section 402(p)(3)(B) of the Clean Water Act and 40 CFR Parts 122.30-122.37. These requirements shall be met by the development and implementation of a storm water management program plan (SWMPP) which addresses the best management practices (BMPs), control techniques and systems, design and engineering methods, public participation and education, monitoring, and other appropriate provisions designed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable (MEP).
2. The Permittee shall provide and maintain adequate finance, staff, equipment, and support capabilities necessary to implement the SWMPP and comply with the requirements of this permit.
3. The SWMPP must address the minimum storm water control measures referenced in Part III.B. to include the following:
 - a. A map of the Permittee's MS4 urbanized areas;
 - b. The BMPs that will be implemented for each control measure. Low impact development/green infrastructure shall be considered where feasible. Information on LID/Green Infrastructure is available on the following websites: <http://www.adem.alabama.gov/programs/water/waterforms/LIDHandbook.pdf> and <http://epa.gov/polwaste/green/index.cfm>.
 - c. The measureable goals for each of the minimum controls outlined in Part III.B.;
 - d. The proposed schedule—including interim milestones, as appropriate, inspections, and the frequency of actions needed to fully implement each minimum control; and
 - e. The person and/or persons responsible for implementing or coordination the BMPs for each separate minimum control measure.

4. Once the initial SWMPP is acknowledged by ADEM, activities and associated schedules outlined by the SWMPP or updates to the SWMPP are conditions of the permit.
5. Unless otherwise specified in this permit, the Permittee shall be in compliance with the conditions of this permit by the effective date of coverage.

B. Minimum Storm Water Control Measures

1. Public Education and Public Involvement on Storm Water Impacts

- a. The Permittee must develop and implement a public education and outreach program to inform the community 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 to the MEP. The Permittee shall continuously implement this program in the areas served by the MS4. The Permittee shall also comply, at a minimum, with applicable State and local public notice requirements when implementing a public involvement/participation program.
- b. The Permittee shall include within the SWMPP the methods for how it will:
 - i. Seek and consider public input in the development, revision, and implementation of the SWMPP;
 - ii. Identify targeted pollutant sources the Permittee's public education program is intended to address;
 - iii. Specifically address the reduction of litter, floatables and debris from entering the MS4, that may include, but is not limited to:
 1. Establishing a program to support volunteer groups for labeling storm drain inlets and catch basins with "no dumping" message; and
 2. Posting signs referencing local codes that prohibit littering and illegal dumping at selected designated public access points to open channels, creeks, and other relevant waterbodies;
 - iv. Inform and involve individuals and households about the steps they can take to reduce storm water pollution; and
 - v. Inform and involve individuals and groups on how to participate in the storm water program (with activities that may include, but not limited to, local stream and lake restoration activities, storm water stenciling, advisory councils, watershed associations, committees, participation on rate structures, stewardship programs and environmental related activities). The target audiences and subject areas for the education program that are likely to have significant storm water impacts should include, but is not limited to, the following:
 1. General Public
 - a. General impacts litter has on water bodies, how trash is delivered to streams via the MS4 and ways to reduce the litter;

- b. General impacts of storm water flows into surface water from impervious surface; and
 - c. Source control BMPs in areas of pet waste, vehicle maintenance, landscaping and rain water reuse.
 - 2. General Public, Businesses, Including Home-Based and Mobile Businesses
 - a. BMPs for use and storage of automotive chemicals, hazardous cleaning supplies, carwash soaps and other hazardous materials; and
 - b. Impacts of illicit discharges and how to report them.
 - 3. Homeowners, Landscapers, and Property Managers
 - a. Yard care techniques that protect water quality;
 - b. BMPs for use and storage of pesticides and fertilizers;
 - c. BMPs for carpet cleaning and auto repair and maintenance;
 - d. Runoff reduction techniques, which may include but not limited to site design, pervious paving, retention of forests, and mature trees; and
 - e. Storm water pond maintenance.
 - 4. Engineers, Contractors, Developers, Review Staff and Land Use Planners
 - a. Technical standards for construction site sediment and erosion control;
 - b. Storm water treatment and flow control BMPs;
 - c. Impacts of increased storm water flows into receiving water bodies; and
 - d. Run-off reduction techniques and low impact development (LID)/green infrastructure (GI) practices that may include, but not limited to, site design, pervious pavement, alternative parking lot design, retention of forests and mature trees to assist in storm water treatment and flow control BMPS.
- vi. Evaluation of the effectiveness of the public education and public involvement program.
- c. The Permittee shall report each year in the annual report the following information:
 - i. A description of the activities used to involve groups and/or individuals in the development and implementation of the SWMPP;
 - ii. A description of the individuals and groups targeted and how many groups and/or individuals participated in the programs;
 - iii. A description of the activities used to address the reduction of litter, floatables and debris from entering the MS4 as required in Part III.B.1.b.iii.;

- iv. A description of the communication mechanisms or advertisements used to inform the public and the quantity that were distributed (i.e. number of printed brochures, copies of newspapers, workshops, public service announcements, etc); and
 - v. Results of the evaluation of the public education and public involvement program as required in Part III.B.1.b.vi.
- d. The Permittee shall make their SWMPP and their annual reports required under this permit available to the public when requested. The current SWMPP and the latest annual report should be posted on the Permittee's website, if available.

2. Illicit Discharge Detection and Elimination (IDDE) Program

- a. The Permittee shall implement an ongoing program to detect and eliminate illicit discharges into the MS4, to the maximum extent practicable. The program shall include, at a minimum, the following:
 - i. An initial map shall be provided in the SWMPP with updates, if any, provided each year in the annual report. The map shall include, at a minimum:
 - 1. The latitude/longitude of all known outfalls;
 - 2. The names of all waters of the State that receive discharges from these outfalls; and,
 - 3. Structural BMPs owned, operated, or maintained by the Permittee.
 - ii. To the extent allowable under State law, an ordinance or other regulatory mechanism that effectively prohibits non-storm water discharges to the MS4. The ordinance or other regulatory mechanism shall be reviewed annually and updated as necessary and shall:
 - 1. Include escalating enforcement procedures and actions; and
 - 2. Require the removal of illicit discharges and the immediate cessation of improper disposal practices upon identification of responsible parties. Where the removal of illicit discharge within ten (10) working days is not possible, the ordinance shall require an expeditious schedule for removal of the discharge. In the interim, the ordinance shall require the operator of the illicit discharge to take all reasonable and prudent measures to minimize the discharge of pollutants to the MS4.
 - iii. A dry weather screening program designed to detect and address non-storm water discharges to the MS4. This program must address, at a minimum, dry weather screening of fifteen percent (15%) of the outfalls once per year with all (100 percent) screened at least once per five years. Priority areas, as described by the Permittee in the SWMPP, will be dry weather screened on a more frequent schedule as outlined in the SWMPP. If any indication of a suspected illicit discharge, from an unidentified

source, is observed during the dry weather screening, then the Permittee shall follow the screening protocol as outlined in the SWMPP.

- iv. Procedures for tracing the source of a suspect illicit discharge as outlined in the SWMPP. At a minimum, these procedures will be followed to investigate portions of the MS4 that, based on the results of the field screening or other appropriate information, indicate a reasonable potential of containing illicit discharges or other sources of non-storm water.
- v. Procedures for eliminating an illicit discharge as outlined in the SWMPP;
- vi. Procedures to notify ADEM of a suspect illicit discharge entering the Permittee's MS4 from an adjacent MS4 as outlined in the SWMPP;
- vii. A mechanism for the public to report illicit discharges discovered within the Permittee's MS4 and procedures for appropriate investigation of such reports;
- viii. A training program for appropriate personnel on identification, reporting, and corrective action of illicit discharges;
- ix. Address the following categories of non-storm discharges or flows (i.e., illicit discharges) only if the Permittee or the Department identifies them as significant contributors of pollutants to your small MS4: water line flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration (infiltration is defined as water other than wastewater that enters a sewer system, including foundation drains, from the ground through such means as defective pipes, pipe joints, connections, or manholes. Infiltration does not include, and is distinguished from, inflow), uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering run-off, individual residential car washing, flows from riparian habitats and wetlands, discharge or flows from firefighting activities (to include fire hydrant flushing); dechlorinated swimming pool discharges, and residual street wash water, discharge authorized by and in compliance with a separate NPDES permit; and
- x. The Permittee may also develop a list of other similar occasional incidental non- storm water discharges (e.g. non-commercial or charity car washes, etc.) that will not be addressed as illicit discharges. These non- storm water discharges must not be reasonably expected (based on information available to the Permittees) to be significant sources of pollutants to the municipal separate storm sewer system, because of either the nature of the discharges or conditions you have established for allowing these discharges to your MS4 (e.g., a charity car wash with appropriate controls on frequency, proximity to impaired waterbodies, BMPs on the wash water, etc.). You must document in your SWMPP any local controls or conditions placed on the discharges. The Permittee must include a provision prohibiting any individual non- storm water discharge that is

determined to be contributing significant amounts of pollutants to your MS4.

- b. The Permittee shall report each year in the annual report the following information:
 - i. List of outfalls observed during the dry weather screening;
 - ii. Updated MS4 map(s) unless there are no changes to the map that was previously submitted. When there are no changes to the map, the annual report must state this;
 - iii. Copies of, or a link to, the IDDE ordinance or other regulatory mechanism; and
 - iv. The number of illicit discharges investigated, the screening results, and the summary of corrective actions taken to include dates and timeframe of response.

3. Construction Site Storm Water Runoff Control

- a. The Permittee must develop/revise, implement and enforce an ongoing program to reduce, to the maximum extent practicable, the pollutants in any storm water runoff to the MS4 from qualifying construction sites. The program shall include the following at a minimum:
 - i. Specific procedures for construction site plan (including erosion prevention and sediment controls) review and approval: The MS4 procedures must include an evaluation of plan completeness and overall BMP effectiveness;
 - ii. To the extent allowable under State law, an ordinance or other regulatory mechanism to require erosion and sediment controls, sanctions to ensure compliance, and to provide all other authorities needed to implement the requirements of Part III.B.3 of this permit;
 - iii. A training program for MS4 site inspection staff in the identification of appropriate construction best management practices (example: QCI training in accordance with ADEM Admin Code. R. 335-6-12 or the Alabama Construction Site General Permit);
 - iv. Procedures for the periodic inspection of qualifying construction sites to verify the use of appropriate erosion and sediment control practices that are consistent with the Alabama Handbook for Erosion Control, Sediment Control, And Stormwater Management on Construction Sites and Urban Areas published by the Alabama Soil and Water Conservation Committee (hereinafter the "Alabama Handbook"). The frequency and prioritization of inspection activities shall be documented in the SWMPP and must include a minimum inspection frequency of once each month for priority construction sites;
 - v. Procedures, as outlined in the SWMPP, to notify ADEM of construction sites that do not have a NPDES permit or ineffective BMPs that are discovered during the periodic inspections. The notification must provide,

at a minimum, the specific location of the construction project, the name and contact information from the owner or operator, and a summary of the site deficiencies; and

- vi. A mechanism for the public to report complaints regarding discharges from qualifying construction sites.
- b. ADEM implements a State-wide NPDES construction storm water regulatory program. As provided by 40 CFR Part 122.35(b), the Permittee may rely on ADEM for the setting of standards for appropriate erosion controls and sediment controls for qualifying construction sites and for enforcement of such controls, and must document this in its SWMPP. If the Permittee elects not to rely on ADEM's program, then the Permittee must include the following, at a minimum, in its SWMPP:
 - i. Requirements for construction site operators to implement appropriate erosion and sediment control BMPs consistent with the Alabama Handbook for Erosion Control, Sediment Control, And Stormwater Management on Construction Sites and Urban Areas published by the Alabama Soil and Water Conservation Committee (hereinafter the "Alabama Handbook");
 - ii. Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality;
 - iii. Development and implementation of an enforcement strategy that includes escalating enforcement remedies to respond to issues of non-compliance;
 - iv. An enforcement tracking system designed to record instances of non-compliance and the MS4's responding actions. The enforcement case documentation should include:
 - 1. Name of owner/operator
 - 2. Location of construction project or industrial facility
 - 3. Description of violations
 - 4. Required schedule for returning to compliance
 - 5. Description of enforcement response used, including escalated responses if repeat violation occur or violations are not resolved in a timely manner;
 - 6. Accompanying documentation of enforcement response (e.g., notices of noncompliance, notices of violation, etc);
 - 7. Any referrals to different departments or agencies; and
 - 8. Date violation was resolved
 - v. The Permittee must keep records of all inspections (i.e. inspection reports) and employee training required by Part III.3.a.
- c. The Permittee shall include within the SWMPP the following information:
 - i. Procedures for site plan reviews as required by Part III.B.3.a.i;
 - ii. A copy or link of the ordinance or other regulatory mechanism required by Part III.B.3.a.ii.;

- iii. Plans for the training of MS4 site inspection staff as required by Part III.B.3.a.iii; and
 - iv. A site inspection plan meeting the requirements of Part III.B.3.a.iv; and
- d. The Permittee shall maintain the following information and make it available upon request:
 - i. Documentation of all inspections conducted of qualifying construction sites as required by Part III.B.3.a.iv. The inspection documentation shall include, at a minimum, the following:
 - 1. Facility type;
 - 2. Inspection date;
 - 3. Name and signature of inspector;
 - 4. Location of construction project;
 - 5. Owner/operator information (name, address, phone number, email);
 - 6. Description of the storm water BMP condition that may include, but not limited to, the quality of vegetation and soils, inlet and outlet channels and structures, embankments, slopes and safety benches, spillways, weirs, and other control structures; and sediment and debris accumulation in storage and forebay areas as well as in and around inlet and outlet structures; and
 - 7. Photographic documentation of any issues and/or concerns.
 - ii. Documentation of referrals of noncompliant construction sites and/or enforcement actions taken at construction sites to include, at a minimum, the following:
 - 1. Name of owner/operator
 - 2. Location of construction project;
 - 3. Description of violation;
 - 4. Required schedule for returning to compliance;
 - 5. Description of enforcement response used, including escalated responses if repeat violations occur; and
 - 6. Accompanying documentation of enforcement responses (e.g. notices of non-compliance, notices of violations, etc).
 - iii. Records of public complaints including:
 - 1. Date, time and description of the complaint;
 - 2. Location of subject construction sites; and
 - 3. Identification of any actions taken (e.g. inspections, enforcement, corrections). Identifying information must be sufficient to cross-reference inspection and enforcement records.
- e. The Permittee shall report each year in the annual report the following information:
 - i. A description of any completed or planned revisions to the ordinance or regulatory mechanism required by Part III.B.3.a.i and the most recent copy, or a link to the ordinance; and
 - ii. List of all active construction sites within the MS4 to include the following summary:

1. Number of construction site inspections;
2. Number of non-compliant construction site referrals and/or enforcement actions and description of violations;
3. Number of construction site runoff complaints received; and
4. Number of MS4 staff/inspectors trained.

4. Post-Construction Storm Water Management in New Development and Redevelopment

- a. Post-construction storm water management refers to the activities that take place after construction occurs, and includes structural and non-structural controls including low-impact development and green infrastructure practices to obtain permanent storm water management over the life of the property's use. These post construction controls should be considered during the initial site development planning phase.
 - i. The Permittee must develop/revise, implement, and enforce a program to address storm water runoff from qualifying new development and redevelopment projects, to the maximum extent practicable. This program shall ensure that controls are in place to prevent or minimize water quality impacts. Specifically, the Permittee shall:
 1. Develop/revise and outline in the SWMPP procedures for the site-plan review and approval process and a required re-approval process when changes to post-construction controls are required; and
 2. Develop/revise and outline in the SWMPP procedures for a post-construction process to demonstrate and document that post-construction storm water measures have been installed per design specifications, which includes enforceable procedures for bringing noncompliant projects into compliance.
 - ii. The Permittee must develop and implement strategies which may include a combination of structural and/or non-structural BMPs designed to ensure, to the maximum extent practicable, that the volume and velocity of pre-construction stormwater runoff is not significantly exceeded. A design rainfall event with an intensity up to that of a 2yr-24hr storm event shall be the basis for the design and implementation of post- construction BMPs.
 - iii. To the extent allowable under State law, the Permittee must develop and institute the use of an ordinance or other regulatory mechanism to address post-construction runoff from qualifying new development and redevelopment projects.
 - iv. The Permittee must require adequate long-term operation and maintenance of BMPs. One or more of the following as applicable:

1. The developer's signed statement accepting responsibility for maintenance until the maintenance responsibility is legally transferred to another party; and/or
 2. Written conditions in the sales or lease agreement that require the recipient to assume responsibility for maintenance; and/or
 3. Written conditions in project conditions, covenants and restrictions for residential properties assigning maintenance responsibilities to a home owner's association, or other appropriate group, for maintenance of structural and treatment control management practices; and/or
 4. Any other legally enforceable agreement that assigns permanent responsibility for maintenance of structural or treatment control management practices.
- v. The Permittee shall perform or require the performance of post-construction inspections, at a minimum of once per year, to confirm that post-construction BMP's are functioning as designed. The Permittee shall include an inspection schedule, to include inspection frequency, within the SWMPP.
 - vi. The Permittee shall maintain or require the developer/owner/operator to keep records of post-construction inspections, maintenance activities and make them available to the Department upon request and require corrective actions to poorly functioning or inadequately maintained post-construction BMP's.
 - vii. The Permittee shall review and evaluate policies and ordinances related to building codes, or other local regulations, with a goal of identifying regulatory and policy impediments to the installation of green infrastructure and low-impact development techniques.
- b. The Permittee shall report each year in the annual report the following information:
 - i. Copies of, or link to, the ordinance or other regulatory mechanism required by Part III.B.4.a.iii;
 - ii. A list of the post-construction structural controls installed and inspected during the permit year;
 - iii. Updated inventory of post-construction structural controls including those owned by the Permittee;
 - iv. Number of inspections performed on post-construction structural controls; and,
 - v. Summary of enforcement actions.

5. Pollution Prevention/Good Housekeeping for Municipal Operations

- a. The Permittee shall develop, implement, and maintain a program that will prevent or reduce the discharge of pollutants in storm water run-off from municipal operations to the maximum extent practicable. The program elements shall include, at a minimum, the following:

- i. An inventory of all municipal facilities, including municipal facilities that have the potential to discharge pollutants via storm water runoff;
 - ii. Strategies for the implementation of BMPs to reduce litter, floatables and debris from entering the MS4 and evaluate those BMPs annually to determine their effectiveness. If a BMP is determined to be ineffective or infeasible, then the BMP must be modified. The Permittee shall also develop a plan to remove litter, floatable and debris material from the MS4, including proper disposal of waste removed from the system;
 - iii. A Standard Operating Procedures (SOP) detailing good housekeeping practices to be employed at appropriate municipal facilities and during municipal operations that may include, but not limited to, the following:
 - 1. Equipment washing;
 - 2. Street sweeping;
 - 3. Maintenance of municipal roads including public streets, roads, and highways, including but not limited to unpaved roads, owned, operated, or under the responsibility of the Permittee;
 - 4. Storage and disposal of chemicals, Pesticide, Herbicide and Fertilizers (PHFs) and waste materials;
 - 5. Vegetation control, cutting, removal, and disposal of the cuttings;
 - 6. Vehicle fleets/equipment maintenance and repair;
 - 7. External Building maintenance; and
 - 8. Materials storage facilities and storage yards.
 - iv. A program for inspecting municipal facilities for good housekeeping practices, including BMPs. The program shall include checklists and procedures for correcting noted deficiencies;
 - v. A training program for municipal facility staff in good housekeeping practices as outlined in the SOP developed pursuant to Part III.B.5.a.iii; and
- b. The Permittee shall include within the SWMPP the following information:
 - i. The inventory of municipal facilities required by Part III.B.5.a.i;
 - ii. Schedule for developing the SOP of good housekeeping practices required by Part III.B.5.a.iii;
 - iii. An inspection plan and schedule, including checklists and any other materials needed to comply with Part III.B.5.a.iv; and
 - iv. A description of the training program and training schedule required by Part III.B.5.a.v.
- c. The Permittee shall report each year in the annual report the following information:
 - i. Any updates to the municipal facility inventory;
 - ii. An estimated amount of floatable material collected from the MS4 as required by Part III.B.5.a.ii;
 - iii. Any updates to the inspection plan
 - iv. The number of inspections conducted; and
 - v. Any updates to the SOP of good housekeeping practices.

d. The Permittee shall maintain the following information and make it available upon request:

- i. Records of inspections and corrective actions, if any; and
- ii. Training records including the dates of each training activities and names of personnel in attendance.

PART IV Special Conditions

A. Responsibilities of the Permittee

1. If the Permittee is relying on another entity to satisfy one or more requirements of this permit, then the Permittee must note that fact in the SWMPP. The Permittee remains responsible for compliance with all requirements of this permit, except as provided by Part III.B.3.b and reliance on another entity will not be a defense or justification for non-compliance if the entity fails to implement the permit requirements.
2. If the Permittee is relying on the Department for the enforcement of erosion and sediment controls on qualifying construction sites and has included that information in the SWMPP as required by Part III.A.3.e., the Permittee is not responsible for implementing the requirements of Part III.B.3.b of this permit as long as the Department receives notification of non-compliant qualifying constructions sites from the Permittee as required by Part III.B.3.a.v.

B. SWMPP Plan Review and Modification

1. The Permittee shall submit a SWMPP and/or revised SWMPP to the Department as required by Part II.A of the permit. The Permittee shall implement plans to seek and consider public input in the development, revision and implementation of this SWMPP, as required by Part III.B.1.b.i. Thereafter, the Permittee shall perform an annual review of the current SWMPP and must revise the SWMPP, as necessary, to maintain compliance with the permit. Any revisions to the SWMPP shall be submitted to the Department at the time a revision is made for the Department review. Revisions made to the SWMPP may include, but are not limited to, the replacement of ineffective or infeasible BMPs or the addition of components, controls and requirements; and
2. The Permittee shall implement the SWMPP on all new areas added to their municipal separate storm sewer system (or for which they become responsible for implementation of storm water quality controls) as soon as practicable, but not later than one (1) year from addition of the new areas. Implementation of the program in any new area shall consider the plans of the SWMPP of the previous MS4 ownership, if any.

C. Discharge Compliance with Water Quality Standards

This general permit requires, at a minimum, that the Permittee develop, implement and enforce a storm water management program designed to reduce the discharge of pollutants to the

maximum extent practicable. Full implementation of BMPs, using all known, available, and reasonable methods of prevention, control and treatment to prevent and control storm water pollution from entering waters of the State of Alabama is considered an acceptable effort to reduce pollutants from the municipal storm drain system to be the maximum extent practicable.

D. Impaired Waters and Total Maximum Daily Loads (TMDLs)

1. The Permittee must determine whether the discharge from any part of the MS4 contributes directly or indirectly to a waterbody that is included on the latest §303(d) list or designated by the Department as impaired;
2. If the Permittee's MS4 discharges to a waterbody included on the latest §303(d) or designated by the Department as impaired, it must demonstrate the discharges, as controlled by the Permittee, do not cause or contribute to the impairment. The SWMPP must detail the BMPs that are being utilized to control discharges of pollutants associated with the impairment. If existing BMPs are not sufficient to achieve this demonstration, the Permittee must, within six (6) months following the publication of the latest final §303(d) list, Department designation, or the effective date of this permit, submit a revised SWMPP detailing new or modified BMPs. The SWMPP must be revised as directed by the Department and the new or modified BMPs must be implemented within one year from the publication of the latest final §303(d) list or Department designation.
3. Permittees discharging from MS4s into waters with EPA-Approved TMDLs and/or EPA-Established TMDLs
 - a. The Permittee must determine whether its MS4 discharges to a waterbody for which a total maximum daily load (TMDL) has been established or approved by EPA. If an MS4 discharges into a water body with an EPA approved or established TMDL, then the SWMPP must include BMPs targeted to meet the assumptions and requirements of the TMDL. If additional BMPs will be necessary to meet the requirements of the TMDL, the SWMPP must include a schedule for installation and/or implementation of such BMPs. A monitoring component to assess the effectiveness of the BMPs in achieving the TMDL requirements must also be included in the SWMPP. Monitoring can entail a number of activities including, but not limited to: outfall monitoring, in-stream monitoring, and/or modeling. Monitoring data, along with an analysis of this data, shall be included in the Annual Report.
 - b. If, during this permit cycle, a TMDL is approved by EPA or a TMDL is established by EPA for any waterbody into which an MS4 discharges, the Permittee must review the applicable TMDL to see if it includes requirements for control of storm water discharges from the MS4.
 1. If it is found that the Permittee must implement specific allocations of the TMDL, it must assess whether the assumptions and requirements of the TMDL are being met through implementation of existing BMPs or if additional BMPs are necessary. The SWMPP must include BMPs targeted to meet the assumptions and requirements of the TMDL. If existing BMPs are not sufficient, the Permittee must, within six (6)

months following the approval or establishment of the TMDL by EPA, submit a revised SWMPP detailing new or modified BMPs to be utilized along with a schedule of installation and/or implementation of such BMPs. Any new or modified BMPs must be implemented within one year, unless an alternate date is approved by the Department, from the establishment or approval of the TMDL by EPA. A monitoring component to assess the effectiveness of the BMPs in achieving the TMDL requirements must also be included in the SWMPP. Monitoring can entail a number of activities including, but not limited to: outfall monitoring, in-stream monitoring, and/or modeling. Monitoring data, along with an analysis of this data, shall be included in the Annual Report.

E. Requiring an Individual Permit

The Department may require any person authorized by this permit to apply for and/or obtain an individual NPDES permit. When the Department requires application for an individual NPDES permit, the Department will notify the Permittee in writing that a permit application is required. This notification shall include a brief statement of the reasons for this decision, an application form and a statement setting a deadline for the Permittee to file the application.

PART V Monitoring and Reporting

1. If there are no 303(d) listed or TMDL waters located within the Permittee's MS4 area, no monitoring shall be required. The SWMPP shall include a determination stating if monitoring is required.
2. If a waterbody within the MS4 jurisdiction is listed on the latest final §303(d) list, or otherwise designated impaired by the Department, or for which a TMDL is approved or established by EPA, during this permit cycle, then the Permittee must implement a monitoring program, within 6 months, to include monitoring that addresses the impairment or TMDL. A monitoring plan shall be included in the SWMPP and any revisions to the monitoring program shall be documented in the SWMPP and Annual Report.
3. Proposed monitoring locations, and monitoring frequency shall be described in the monitoring plan with actual locations described in the annual report;
4. The Permittee must include in the monitoring program any parameters attributed with the latest final §303(d) list or otherwise designated by the Department as impaired or are included in an EPA-approved or EPA-established TMDL;
5. Analysis and collection of samples shall be done in accordance with the methods specified at 40 CFR Part 136. Where an approved 40 CFR Part 136 does not exist, then a Department approved alternative method may be used;
6. If the Permittee is unable to collect samples due to adverse conditions, the Permittee must submit a description of why samples could not be collected, including available documentation of the event. An adverse climatic condition which may prohibit the collection of samples includes weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.)

or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.);

7. Monitoring results must be reported with the subsequent Annual Report and shall include the following monitoring information:
 - a. The date, latitude/longitude of location, and time of sampling;
 - b. The name(s) of the individual(s) who performed the sampling;
 - c. The date(s) analysis were performed;
 - d. The name(s) of individuals who performed the analysis;
 - e. The analytical techniques or methods used; and
 - f. The results of such analysis.

PART VI Annual Reporting Requirements

1. The Permittee shall submit to the Department an annual report (1 hardcopy and 1 electronic copy) no later than May 31st of each year. The annual report shall cover the previous April 1 to March 31. If an entity comes under coverage for the first time after the issuance of this permit, then the first annual report should cover the time coverage begins until March 31st of subsequent year.
2. **On or after December 21, 2020, all annual reports shall be submitted to the Department electronically in a prescribed manner acceptable to the Department.**
3. The Permittee shall sign and certify the annual report in accordance with Part VII.G.
4. The annual report shall include the following information, at a minimum, and in addition to those requirements referenced in Part III-V:
 - a. A list of contacts and responsible parties (e.g.: agency, name, phone number, address, & email address) who had input to and are responsible for the preparation of the annual report;
 - b. Overall evaluation of the storm water management program developments and progress for the following:
 - i. Major accomplishments;
 - ii. Overall program strengths/weaknesses;
 - iii. Future direction of the program;
 - iv. Overall determination of the effectiveness of the SWMPP taking into account water quality/watershed improvements;
 - v. Measureable goals that were not performed and reasons why the goals were not accomplished; and
 - vi. If monitoring is required, evaluation of the monitoring data.
 - c. Narrative report of all minimum storm water control measures referenced in Part III.B of this permit. The activities shall be discussed as follows:
 - i. Minimum control measures completed and in progress;
 - ii. Assessment of the controls; and
 - iii. Discussion of proposed BMP revisions or any identified measureable goals that apply to the minimum storm water control measures.

- d. Summary table of the storm water controls that are planned/scheduled for the next reporting cycle;
- e. Results of information collected and analyzed, if any, during the reporting period, including any monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP.
- f. Notice of reliance on another entity to satisfy some of your permit obligations; and
- g. If monitoring is required, all monitoring results collected during the previous year in accordance with Part V, if applicable. The monitoring results shall be submitted in a format acceptable to the Department.

PART VII Standard and General Permit Conditions

A. Duty to Comply

You must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of CWA and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

B. Continuation of the Expired General Permit

If this permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with the ADEM Code r. 335-6-6 and remain in force and effect if the Permittee re-applies for coverage as required under Part II of this Permit. Any Permittee who was granted permit coverage prior to the expiration date will automatically remain covered by the continued permit until the earlier of:

- 1. Reissuance or replacement of this permit, at which time you must comply with the Notice of Intent conditions of the new permit to maintain authorization to discharge; or
- 2. Issuance of an individual permit for your discharges; or
- 3. A formal permit decision by the Department not to reissue this general permit, at which time you must seek coverage under an alternative general permit or an individual permit.

C. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for you in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to Mitigate

You must take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

E. Duty to Provide Information

The Permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or terminating the permit or to determine compliance with the permit. The Permittee shall also furnish to the Director upon request, copies of records required to be kept by the permit.

F. Other Information

If you become aware that you have failed to submit any relevant facts in your Notice of Intent or submitted incorrect information in the Notice of Intent or in any other report to the Department, you must promptly submit such facts or information.

G. Signatory Requirements

All Notices of Intent, reports, certifications, or information submitted to the Department, or that this permit requires be maintained by you shall be signed and certified as follows:

1. Notice of Intent. All Notices of Intent shall be signed by a responsible official as set forth in ADEM Admin. Code r. 335-6-6-.09.
2. Reports and other information. All reports required by the permit and other information requested by the Department or authorized representative of the Department shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. Signed authorization. The authorization is made in writing by a person described above and submitted to the Department.
 - b. Authorization with specified responsibility. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or position of equivalent responsibility for environmental matters for the regulated entity.
3. Changes to authorization. If an authorization is no longer accurate because a different operator has the responsibility for the overall operation of the MS4, a new authorization satisfying the requirement of Part VII.G.2.b. above must be submitted to the Department prior to or together with any reports or information, and to be signed by an authorized representative.
4. Certification. Any person signing documents under Part VII.G.1-2. above shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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 submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

H. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege, nor it does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

I. Proper Operation and Maintenance

You must at all time properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by you to achieve compliance with the conditions of this permit and with the conditions of your SWMPP. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary

facilities or similar systems, installed by you only when the operation is necessary to achieve compliance with the conditions of the permit.

J. Inspection and Entry

1. You must allow the Department or an authorized representative upon the presentation of credentials and other documents as may be required by law, to do any of the following:
 - a. Enter your premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
 - b. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;
 - c. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment) practices, or operations regulated or required under this permit; and
 - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the CWA, any substances or parameters at any location.

K. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. Your filing of a request for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

L. Permit Transfers

This permit is not transferable to any person except after notice to the Department. The Department may require modification or revocation and reissuance of the permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Act.

M. Anticipated Noncompliance

You must give advance notice to the Department of any planned changes in the permitted small MS4 or activity which may result in noncompliance with this permit.

N. Compliance with Statutes and Rules

1. The permit is issued under ADEM Admin. Code r. 335-6-6. All provisions of this chapter that are applicable to this permit are hereby made a part of this permit.
2. This permit does not authorize the noncompliance with or violation of any laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws.

O. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall be affected thereby.

P. Bypass Prohibition

Bypass (see 40 CFR 122.41(m)) is prohibited and enforcement action may be taken against a regulated entity for a bypass; unless:

1. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during the normal periods of equipment downtime. This condition is not satisfied if the regulated entity should, in the exercise of reasonable engineering judgment, have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance.
3. The Permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the Permittee is granted such authorization, and the Permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.

The Permittee has the burden of establishing that each of the conditions of Part VII.P. have been met to qualify for an exception to the general prohibition against bypassing and an exemption, where applicable, from the discharge specified in this permit.

Q. Upset Conditions

An upset (see 40 CFR 122.41(n)) constitutes an affirmative defense to an action brought for noncompliance with technology-based permit limitations if a regulated entity shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence, that:

1. An upset occurred and the Permittee can identify the specific cause(s) of the upset;
2. The Permittee's facility was being properly operated at the time of the upset; and
3. The Permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.

The Permittee has the burden of establishing that each of the conditions of Part VII.Q. of this permit have been met to qualify for an exemption from the discharge specified in this permit.

R. Procedures for Modification or Revocation

Permit modification or revocation will be conducted according to ADEM Admin. Code r. 335-6-6-.17.

S. Re-opener Clause

If there is evidence indicating potential or realized impacts on water quality due to storm water discharge covered by this permit, the regulated entity may be required to obtain an individual permit or an alternative general permit or the permit may be modified to include different limitations and/or requirements.

T. Retention of Records

1. The Permittee shall retain the storm water quality management program developed in accordance with Part III-V of this permit until at least five years after coverage under this permit terminates.
2. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
3. The Permittee shall retain records of all monitoring information including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of reports required by this permit, and records of all data used to

complete the application of this permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended at the request of the Director at any time.

U. Monitoring Methods

Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

V. Additional Monitoring by the Permittee

If the Permittee monitors more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the monitoring report. Such increased monitoring frequency shall also be indicated on the monitoring report.

W. Definitions

1. Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
2. Control Measure as used in this permit, refers to any Best Management Practice or other method used to prevent or reduce the discharge of pollutants to waters of the State.
3. CWA or The Act means the Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq.
4. Department means the Alabama Department of Environmental Management or an authorized representative.
5. Discharge, when used without a qualifier, refers to “discharge of a pollutant” as defined as ADEM Admin. Code r. 335-6-6-.02(m).
6. Green Infrastructure refers to systems and practices that use or mimic natural processes to infiltrate, evapotranspire (the return of water to the atmosphere either through evaporation or by plants), or reuse storm water or runoff on the site where it is generated.
7. Illicit Connection means any man-made conveyance connecting an illicit discharge directly to municipal separate storm sewer.
8. Illicit Discharge is defined at 40 CFR Part 122.26(b)(2) and refers to any discharge to a municipal separate storm sewer that is not entirely composed of storm water, except discharges authorized under an NPDES permit (other than the NPDES permit for discharges from the MS4) and discharges resulting from fire fighting activities.
9. Indian Country, as defined in 18 USC 1151, means (a) all land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation; (b) all dependent Indian communities within the borders of the United States whether within the original or subsequently acquired territory thereof, and whether within or without the limits of a State, and (c) all Indian allotments, the Indian titles to which have

not been extinguished, including rights-of-way running through the same. This definition includes all land held in trust for an Indian tribe.

10. Infiltration means water other than wastewater that enters a sewer system, including foundation drains, from the ground through such means as defective pipes, pipe joints, connections, or manholes. Infiltration does not include, and is distinguished from, inflow.
11. Landfill means an area of land or an excavation in which wastes are placed for permanent disposal, and which is not a land application unit, surface impoundment, injection well, or waste pile.
12. Large municipal separate storm sewer system means all municipal separate storm sewers that are either: (i) located in an incorporated place (city) with a population of 250,000 or more as determined by the latest decennial census.
13. Low Impact Development (LID) is an approach to land development (or re-development) that works with nature to manage storm water as close to its source as possible. LID employs principles such as preserving and recreating natural landscape features, minimizing effective imperviousness to create functional and appealing site drainage that treat storm water as a resource rather than a waste product.
14. Medium municipal separate storm sewer system means all municipal separate storm sewers that are either: (i) located in an incorporated place (city) with a population of 100,000 or more but less than 250,000 as determined by the latest decennial census.
15. MEP is an acronym for "Maximum Extent Practicable," the technology-based discharge standard for municipal separate storm sewer systems to reduce pollutants in storm water discharges that was established by CWA Section 402(p). A discussion of MEP as it applies to small MS4s is found at 40 CFR Part 122.34.
16. MS4 is an acronym for "Municipal Separate Storm Sewer System" and is used to refer to either a large, medium, or small municipal separate storm sewer system. The term is used to refer to either the system operated by a single entity or a group of systems within an area that are operated by multiple entities.
17. Municipal Separate Storm System is defined at 40 CFR Part 122.26(b)(8) and means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States; (ii) Designed or used for collecting or conveying storm water; (iii) Which is not a combined sewer; and (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined in ADEM Admin. Code r. 335-6-6-.02(nn).
18. NOI is an acronym for "Notice of Intent" to be covered by this permit and is the mechanism used to "register" for coverage under a general permit.
19. Permittee means each individual co-applicant for an NPDES permit who is only responsible for permit conditions relating to the discharge that they own or operate.
20. Point Source means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling

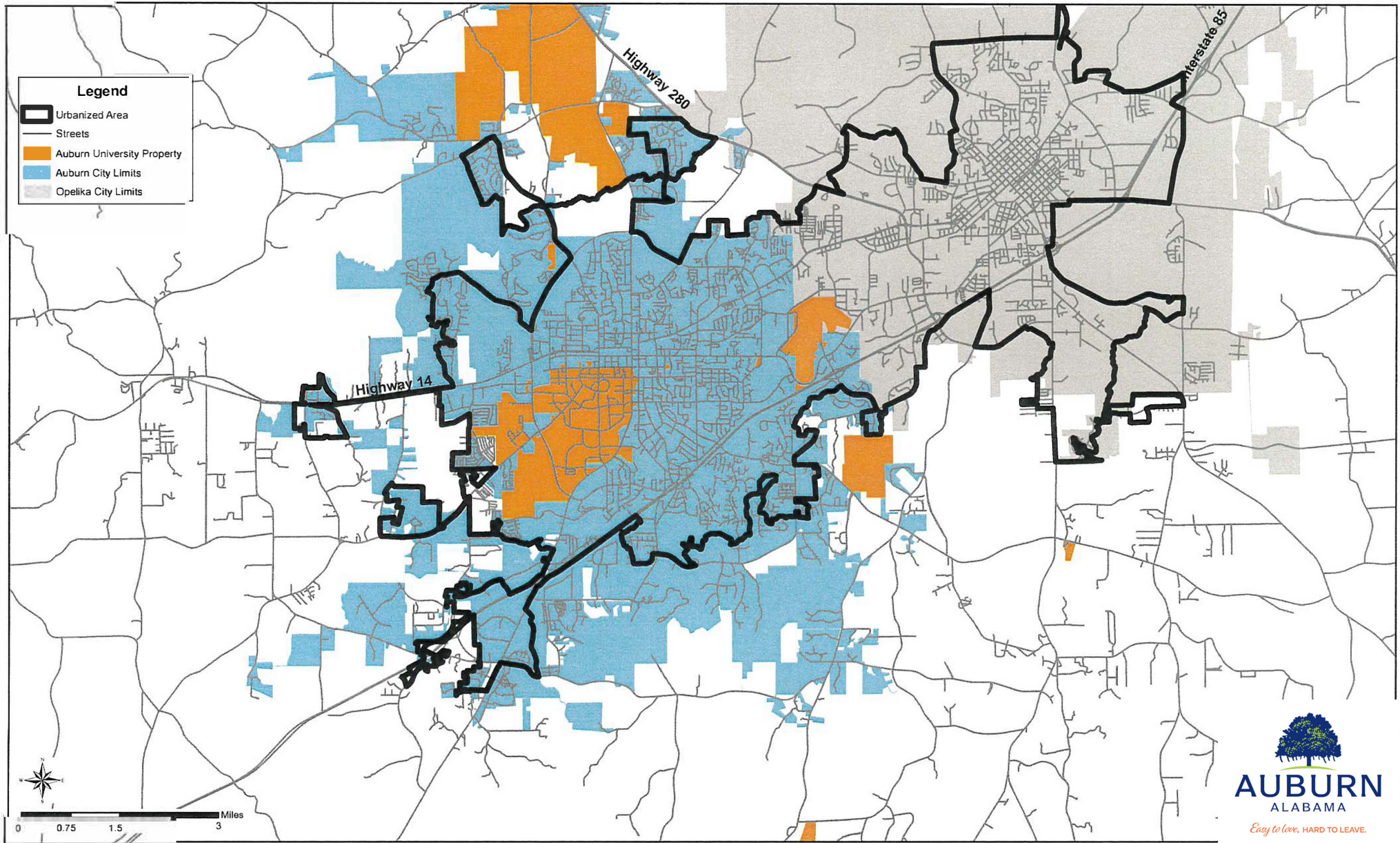
stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

21. Priority construction site means any qualifying construction site in an area where the MS4 discharges to a waterbody which is listed on the most recently approved 303(d) list of impaired waters for turbidity, siltation, or sedimentation, any waterbody for which a TMDL has been finalized or approved by EPA for turbidity, siltation, or sedimentation, and any waterbody assigned specific water quality criteria, such as Outstanding Alabama Water use classification, in accordance with ADEM Admin. Code r. 335-6-10-.09 and any waterbody assigned a special designation in accordance with ADEM Admin. Code r. 335-6-10-.10.
22. Qualifying Construction Site means any construction activity that results in a total land disturbance of one or more acres and activities that disturb less than one acre but are part of a larger common plan of development or sale that would disturb one or more acres. Qualifying construction sites do not include land disturbance conducted by entities under the jurisdiction and supervision of the Alabama Public Service Commission.
23. Qualifying New Development and Redevelopment means any site that results from the disturbance of one acre or more of land or the disturbance of less than one acre of land if part of a larger common plan of development or sale that is greater than one acre. Qualifying new development and redevelopment does not include land disturbances conducted by entities under the jurisdiction and supervision of the Alabama Public Service Commission.
24. Small municipal separate storm sewer system is defined at 40 CFR Part 122.26(b)(16) and refers to all separate storm sewers that are owned or operated by the United States, a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to water of the United States, but is not defined as "large" or "medium" municipal separate storm sewer system. This term includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings.
25. Storm water is defined at 40 CFR Part 122.26(b) (13) and means storm water runoff, snow melt runoff, and surface runoff and drainage.
26. Storm Water Management Program (SWMP) refers to a comprehensive program to manage the quality of storm water discharged from the municipal separate storm sewer system.
27. SWMP is an acronym for "Storm Water Management Program."
28. Total Maximum Daily Load (TMDL) means the calculated maximum permissible pollutant loading to a waterbody at which water quality standards can be maintained. The sum of wasteload allocations (WLAs) and load allocations (LAs) for any given pollutant.

29. You and Your as used in this permit is intended to refer to the Permittee, the operator, or the discharger as the context indicates and that party's responsibilities (e.g., the city, the country, the flood control district, the U.S. Air Force, etc.).

APPENDIX B

URBANIZED AREA MAP



APPENDIX C

NEWSPAPER PUBLICATIONS – 2024-2025

Opelika Auburn News (OANOW)		
Title	Publication Date	Hyperlink
Auburn Mayor Ron Anders looks ahead to bright future in State of City address	November 16, 2024	https://oanow.com/news/local/article_b3b71456-a296-11ef-b7d6-8f86af91f349.html
5 busy Auburn roads are getting repaved in a \$3.3 million project	November 25, 2024	https://oanow.com/news/local/business/development/article_b9969e74-a8e4-11ef-9777-9f229399ec41.html
Lake Wilmore Community Center project moves forward	August 23, 2024	https://oanow.com/news/local/business/development/article_23618622-60a9-11ef-9cfb-8b6ded8352ed.html
Portion of Felton Little Park to close for renovations	July 3, 2024	https://oanow.com/news/local/article_1573494c-388b-11ef-9ca4-d71792daa0a8.html
Auburn City Schools targets opening of new high school in 2028 with additional land purchase	June 13, 2024	https://oanow.com/news/local/article_906b83dc-28ee-11ef-941a-3b49809655ef.html

Opelika Auburn News (OANOW)		
Title	Publication Date	Hyperlink
Construction crews nearly done repairing bridge along Wrights Mill Road	May 7, 2024	https://oanow.com/news/local/accident-and-incident/article_070846d6-0be6-11ef-928c-c3c718dead48.html
New Chick-fil-A restaurant to open in Auburn over the summer	June 8, 2024	https://oanow.com/life-entertainment/local/food-drink/article_c30ccf36-0728-11ef-8d1f-83cb68c77105.html
City of Auburn to temporarily close portion of Moores Mill Road	April 23, 2024	https://oanow.com/news/local/accident-and-incident/article_b876403a-f6ba-11ee-abal-73973dfb2ac7.html
Council approves Phase 2 of Lake Wilmore Community Center Project	May 30, 2024	https://oanow.com/news/local/article_ddddef16-00de-11ef-8620-eb4cadf92fa7.html
City of Auburn temporarily closes portions of South College Street, North Donahue Drive	May 9, 2024	https://oanow.com/news/local/accident-and-incident/article_430880f2-f056-11ee-bbfe-d3fa81bc7be8.html

Opelika Auburn News (OANOW)		
Title	Publication Date	Hyperlink
Well Red to open new coffee shop at Coffee Cat's former location	May 13, 2024	https://oanow.com/news/local/business/development/article_ea23a23e-f2ba-11ee-bbe4-0bd50b8b1c1d.html
Auburn City Council approves purchases for improvement projects and more	March 6, 2025	https://oanow.com/news/local/article_c2eace68-daa2-11ef-9894-bfba7ad3970c.html

Auburn Villager		
Title	Publication Date	Hyperlink
Auburn Roundup: Trash Amnesty to run March 10 to April 4	February 27, 2025	https://www.auburnvillager.com/news/auburn-roundup-trash-amnesty-to-run-march-10-to-april-4/article_a9d0cb5c-f52b-11ef-8296-278822d0d529.html
Auburn Roundup: Household Hazardous Waste Collection Day set for March 29	March 6, 2025	https://www.auburnvillager.com/news/auburn-roundup-household-hazardous-waste-collection-day-set-for-march-29/article_513ec31e-faa7-11ef-8264-232b5bd96701.html

APPENDIX D

2024-2025 STORMWATER QUALITY MONITORING REPORT



Easy to love, HARD TO LEAVE.

City of Auburn, Alabama Phase II MS4

Annual Surface Water Quality Monitoring Report
Monitoring Period: April 1, 2024 – March 31, 2025

Permit # ALR040003
Effective: October 1, 2021
Expiration: September 30, 2026

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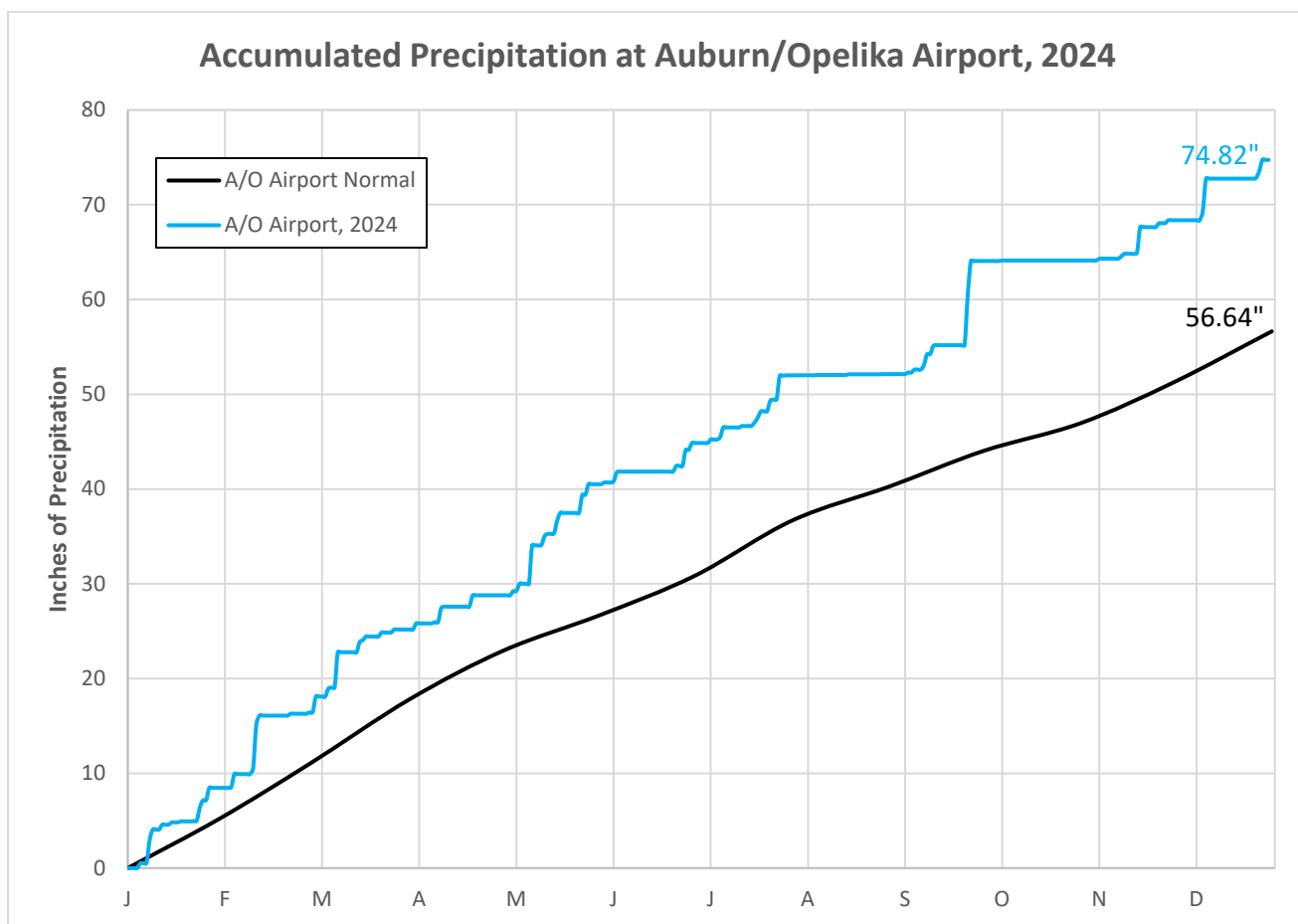
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1.0 Introduction

The City of Auburn has been voluntarily collecting water quality data on its local water resources since the 1970's. Although initial efforts were primarily concentrated on source water quality monitoring in the Lake Ogletree watershed of Chewacla Creek, the City's water quality monitoring has expanded to include a wide variety of monitoring programs that are used to guide efforts of assessment, protection, and restoration of our local water resources. These programs include monitoring for physical, chemical, and biological indicators of water quality, with all monitoring efforts managed and operated in-house. This report presents the results of water quality monitoring and analyses conducted for the period of April 1, 2024, to March 31, 2025. Comments by staff in the City's Water Resource Management Department (WRM) are also included in the water quality results.

1.1 Precipitation Data 2024

The City of Auburn experienced another exceptionally wet year in 2024. According to the rain gauge at the Auburn/Opelika Airport, 74.82 inches of precipitation fell during 2024. This was the 4th highest amount recorded at the airport since 1976. Rainfall was above normal for the entire year, but large rain events in February, March, and September greatly added to the surplus. The year ended 18.18 inches above normal.



Accumulated Precipitation at Auburn/Opelika Airport, 2024

2.0 Monitoring Required Under ADEM Phase II NPDES General Permit ALR040003

2.1 Background

The City of Auburn has three (3) streams within its jurisdiction that fail to meet the state's minimum water quality standards for their designated uses. Two streams have a finalized Total Maximum Daily Load (TMDL), and two streams are included on the 2024 final 303(d) list. A TMDL was approved for the Saugahatchee Creek watershed in 2008, with the pollutants of concern being total phosphorus (TP) and organic enrichment/dissolved oxygen (OE/DO). In 2020, Saugahatchee Creek was listed on the 303(d) list for pathogens. A TMDL was finalized for Parkerson Mill Creek in 2011 for pathogens, with *E. coli* as the indicator bacteria. Moore's Mill Creek was included on the 303(d) list of impaired streams in 2000 for siltation, and 2022 for pathogens. Currently, there is no TMDL for Moore's Mill Creek. The monitoring results included in this report were collected from April 1, 2024, to March 31, 2025, in compliance with the Phase II NPDES General Permit ALR040003 as outlined in the City of Auburn's Stormwater Quality Monitoring Plan.

2.2 Compliance Requirements

According to ADEM Phase II NPDES General Permit ALR040003, if a waterbody within the MS4 jurisdiction is listed on the latest final 303(d) list, or otherwise designated impaired by ADEM, or for which a TMDL is approved or established by EPA, the MS4 permittee shall comply with the following:

1. Include a statement in the SWMPP stating if monitoring is required.
2. Implement a monitoring program within 6 months of permit coverage that addresses the impairment or TMDL. Include the monitoring plan in the SWMPP and document the revisions to the monitoring plan in the SWMPP and SWMPP Annual Report.
3. Describe proposed monitoring locations and proposed monitoring frequency in the monitoring plan, with actual locations described in the SWMPP Annual Report.
4. Include in the monitoring program any parameters attributed with the latest final 303(d) list, or otherwise designated by ADEM as impaired, or are included in an EPA-approved or EPA-established TMDL.
5. Perform analysis and collection of samples in accordance with the methods specified at 40 CFR Part 136. If an approved 40 CFR Part 136 method does not exist, then an ADEM approved method may be used.
6. If samples cannot be collected due to adverse conditions, permittee must submit a description of why samples could not be collected, including available documentation of the event (e.g., weather conditions that create dangerous conditions for personnel, or impracticable conditions such as drought or ice).
7. Monitoring results must be reported with the subsequent SWMPP Annual Report and shall include the following:
 - a. The date, latitude/longitude of location, and time of sampling.
 - b. The name(s) of the individual(s) who performed the sampling.

- c. The date(s) analysis was performed.
- d. The name(s) of the individual(s) who performed the analysis.
- e. The analytical techniques or methods used.
- f. The results of such analysis.

The pages that follow include the sampling and reporting requirements outlined above for Saugahatchee Creek, Parkerson Mill Creek, and Moore's Mill Creek.

2.3 Water Sampling Methods

Quality control and quality assurance are critical to a successful environmental monitoring program. To develop a dependable and credible database of water quality measurements, WRM staff employ a stringent field and laboratory protocol. WRM staff are required to wear nitrile gloves when handling sample bottles, cleaning sample bottles, plating bacterial samples, handling bacterial plates and growth media, calibrating instruments, and collecting water samples. Before visiting a monitoring site, water sample collection bottles are placed in clean, sealable plastic bags. They are carried to the monitoring site in a cooler, and after the water samples are collected the bottles are immediately placed back into the bag and into the cooler to be chilled to 4 degrees Celsius. WRM staff calibrate all water quality instruments at least three days prior to field use. Calibration standards are not used outside the expiration date. A detailed calibration log is filled out each time an instrument is calibrated. When utilized, sampling equipment is cleaned using Liquinox™ phosphate-free detergent, followed by a tap water rinse, and then a final rinse with deionized water. WRM staff utilize field sheets to document site characteristics and observations such as stream color, geomorphic setting (riffle, pool, etc.), and weather conditions. The field sheets are also used to document water quality data measured in-situ at each site. These in-situ data are collected using a YSI ProPlus instrument and include temperature (F), pH, specific conductance ($\mu\text{S}/\text{cm}$), and dissolved oxygen (mg/L). Water samples are analyzed for turbidity in the field using a LaMotte 2020we portable turbidimeter. Where applicable, streamflow is determined using the mid-section method, where the channel is divided into segments along a cross-section and width, depth, and velocity are recorded at each segment. The sum of flows of all the segments along a cross-section equals the total streamflow. Velocity is measured at the center of each segment using either a Sontek Flowtracker 2 acoustic doppler velocimeter or a Price Pygmy Meter.

2.4 Saugahatchee Creek Compliance Monitoring

The Saugahatchee Creek Embayment on Yates Reservoir was originally placed on the ADEM 303(d) list of impaired waterbodies in 1996 for OE/DO and nutrients. It remained on the State's 303(d) list after each consecutive two-year water quality assessment until 2008, at which time the Saugahatchee Creek Embayment (Yates Reservoir) TMDL was finalized. Additionally, Pepperell Branch, a tributary of Saugahatchee Creek which originates in Opelika, also remained on the State's 303(d) list for nutrient impairment until 2008. The impairment of Pepperell Branch was also addressed in the Saugahatchee Creek Embayment TMDL. To address water quality concerns within the Saugahatchee Creek Embayment, ADEM and the EPA jointly developed a "watershed based" TMDL, which would in turn address nutrient loading from both the main stem of Saugahatchee Creek and Pepperell Branch. The final Saugahatchee Creek Watershed TMDL was issued in April of 2008, identifying TP as the primary pollutant of concern (expressed as chlorophyll-a to satisfy numeric target

criteria for assessing eutrophication in lakes). The Saugahatchee Creek Embayment TMDL establishes the TP limits in stormwater runoff of equal to or less than 0.1 mg/L (see Table 5-2 of the Saugahatchee Creek Embayment TMDL). The City of Auburn requires new developments and redevelopments within the Saugahatchee Creek Watershed to provide 50% TP removal in post-development stormwater discharges to meet the TMDL requirements.

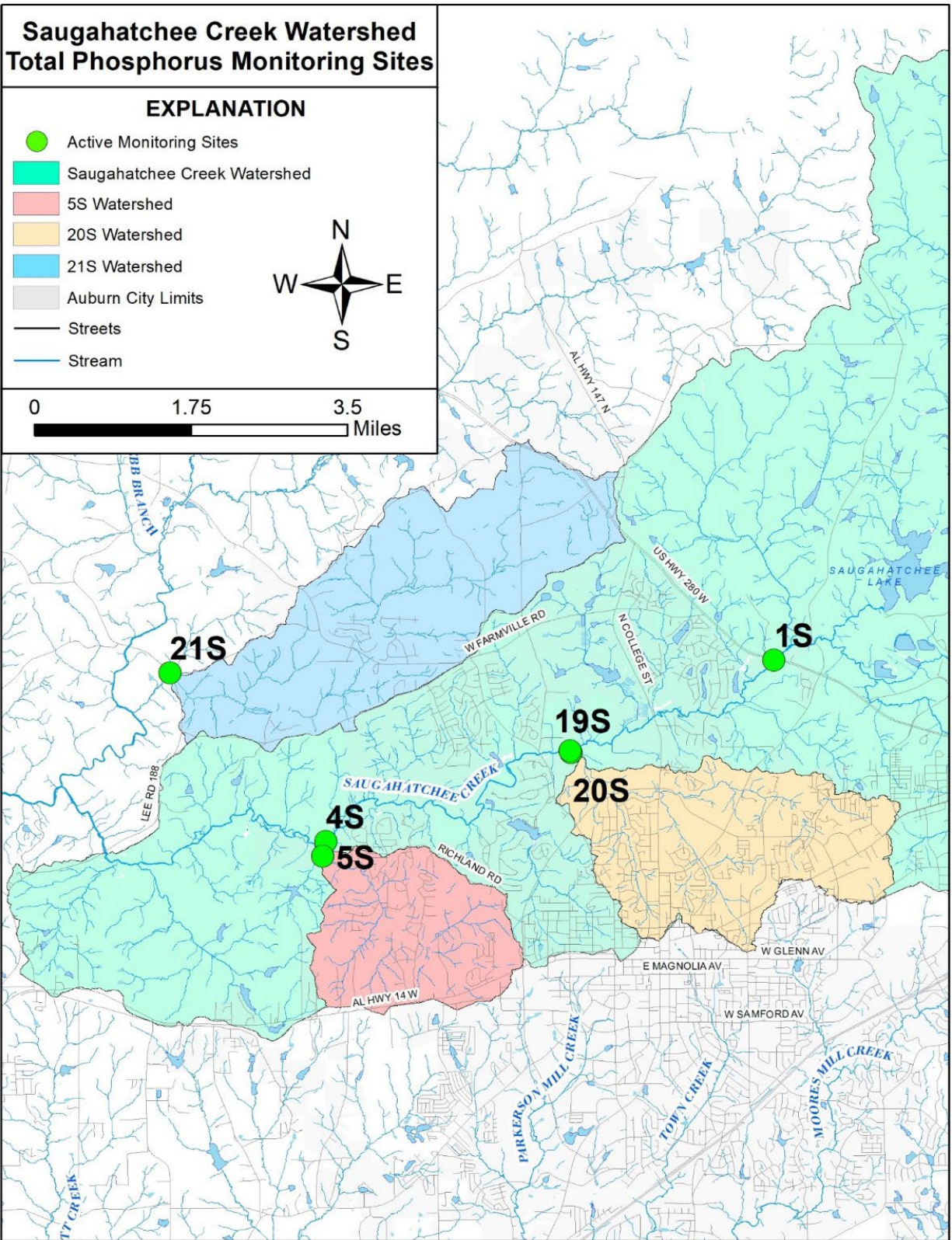
Monitoring TP at strategic locations along the main stem of Saugahatchee Creek and on tributaries within the Saugahatchee Creek watershed that drain portions of the City's MS4 provides data to evaluate the success of efforts to reduce TP in stormwater and meet TMDL concentrations. The City conducted quarterly sampling for TP, water temperature, pH, dissolved oxygen, specific conductance, and turbidity at three locations along the main stem of Saugahatchee Creek, and at three tributaries within the Saugahatchee Creek watershed during this reporting period. Streamflow in cubic feet per second (cfs) and million gallons per day (MGD) was determined at each sample site. Streamflow at sites 1S, 4S, and 19S was recorded by either the City's streamgage located at site 4S on Saugahatchee Creek at the City's Northside Water Pollution Control Facility (WPCF), or the USGS streamgage at Lee County Rd. 188.

In 2018, Saugahatchee Creek was placed on the ADEM 303(d) list for pathogen impairment. The impaired reach is 33.42 mi. long and includes waters from Saugahatchee Lake Dam to the confluence with Sycamore Creek in Tallapoosa County. ADEM considered collection system failure and pasture grazing as potential sources of the impairment. According to the 2018 303(d) list Fact Sheet <https://adem.alabama.gov/programs/water/wquality/2018AL303dFactSheet.pdf>, ADEM collected samples at stations SOGL-1 and SOGL-11 to determine the basis for adding Saugahatchee Creek to the 303(d) list. Because of the impairment, the City monitored *E. coli* concentrations in Saugahatchee Creek through intensive *E. coli* sampling at seven (7) sites within the watershed in 2024.

The goal of annual monitoring of *E. coli* at strategic locations along the main stem of Saugahatchee Creek and on tributaries within the Saugahatchee Creek watershed that drain portions of the City's MS4 is to provide further insight into the high *E. coli* concentrations that were observed by ADEM and eventually led to the 2018 303(d) listing. In 2024, single samples were collected for *E. coli* once per month for April, May, June, August, September, and October. Weekly samples were collected at those sites during July. The 5-week geometric mean concentrations displayed in the following charts were calculated based on the results of the weekly sampling.

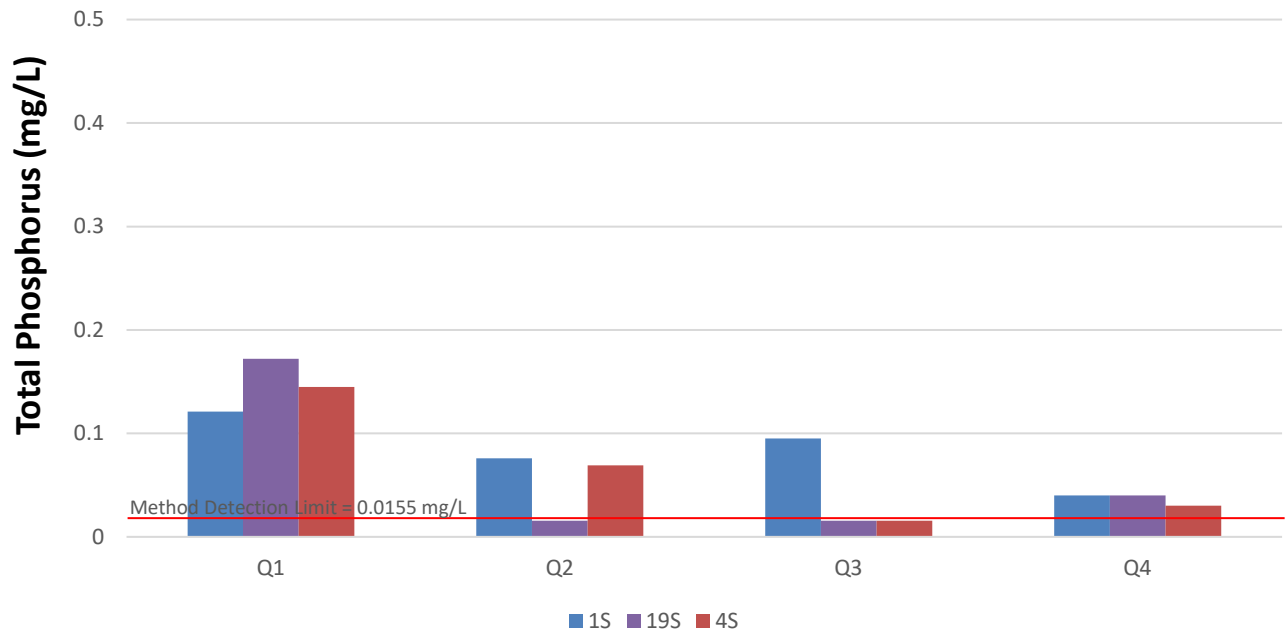
2.4.1 Saugahatchee Creek Total Phosphorus Monitoring Results

Of the 24 samples collected for TP during this reporting period, the average value was 0.063 mg/L. The concentrations ranged from "not detected" to 0.172 mg/L. Overall, TP concentrations were higher during the month of June than the other sample dates. Results suggest that the City's post-development water quality requirements are keeping the TP pollutant load in Saugahatchee Creek at low concentrations. The City requires new developments and re-developments within the Saugahatchee Creek watershed to remove 50% of the TP from stormwater runoff leaving the site. Examples of bmp's that developers typically use to meet these requirements are wet detention ponds, bioretention cells, infiltration swales, and proprietary water quality grit traps. The tables and chart included in this report show results from TP monitoring conducted during the reporting period 4/1/2024 to 3/31/2025.

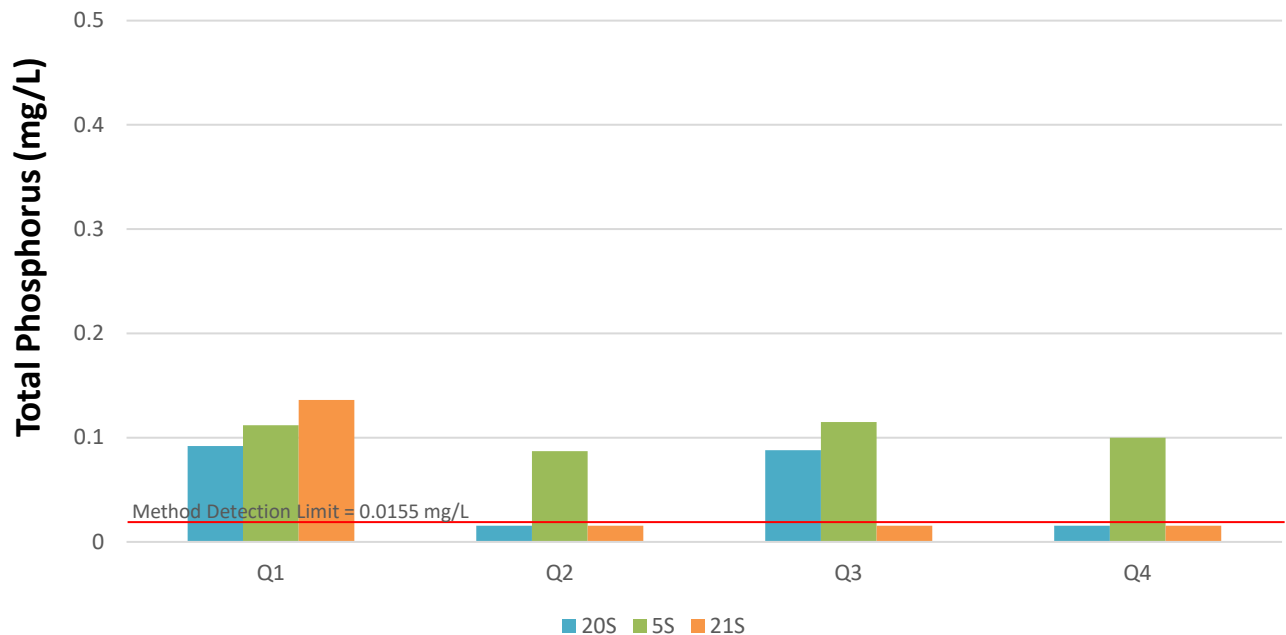


Saugahatchee Creek Watershed Total Phosphorus Monitoring Sites

**Total Phosphorus Monitoring Sites
Along the Main Stem of Saugahatchee Creek
4/1/2024 - 3/31/2025**



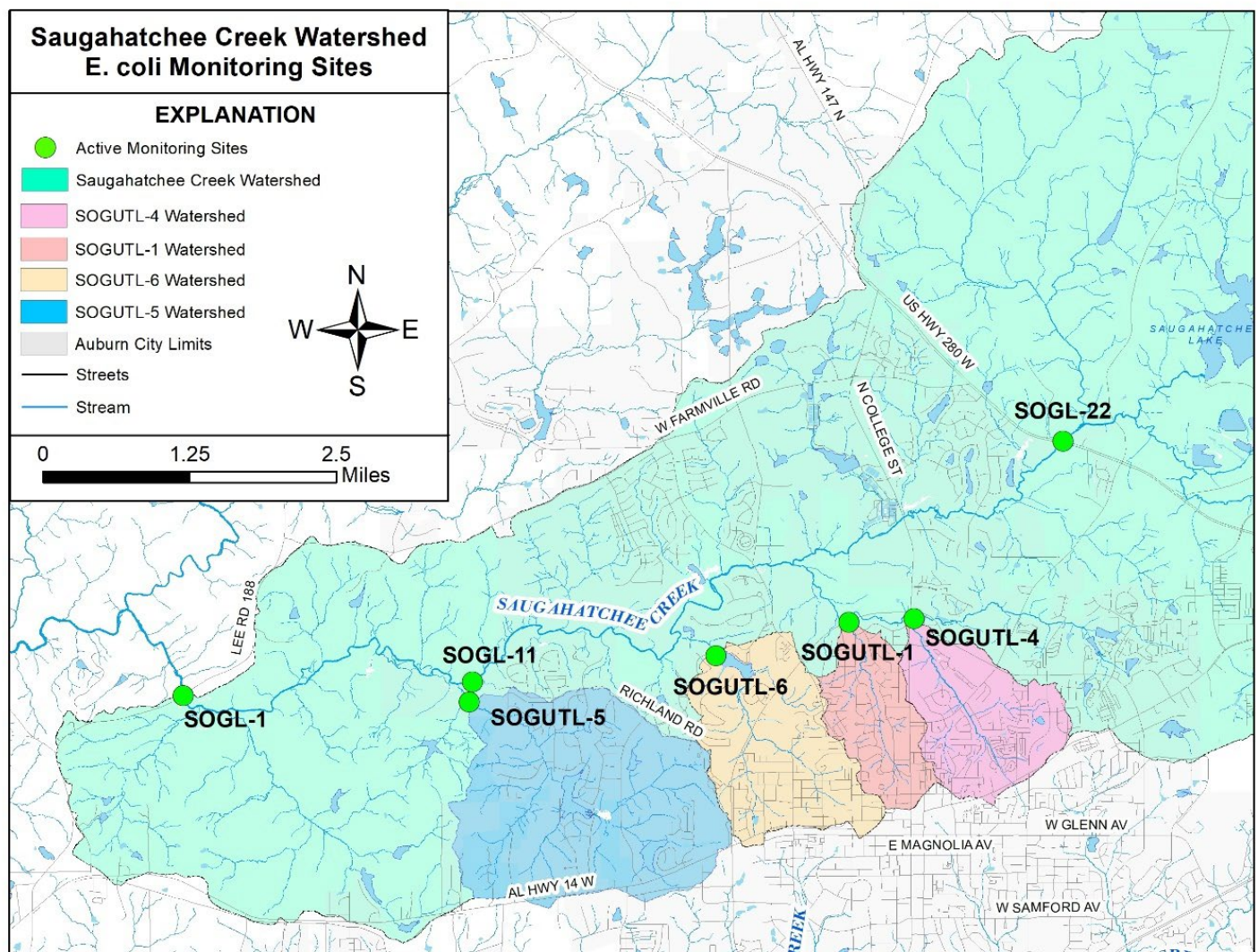
**Total Phosphorus Monitoring Sites
In Tributaries of Saugahatchee Creek
4/1/2024 - 3/31/2025**



2.4.2 Saugahatchee Creek *E. coli* Monitoring Results

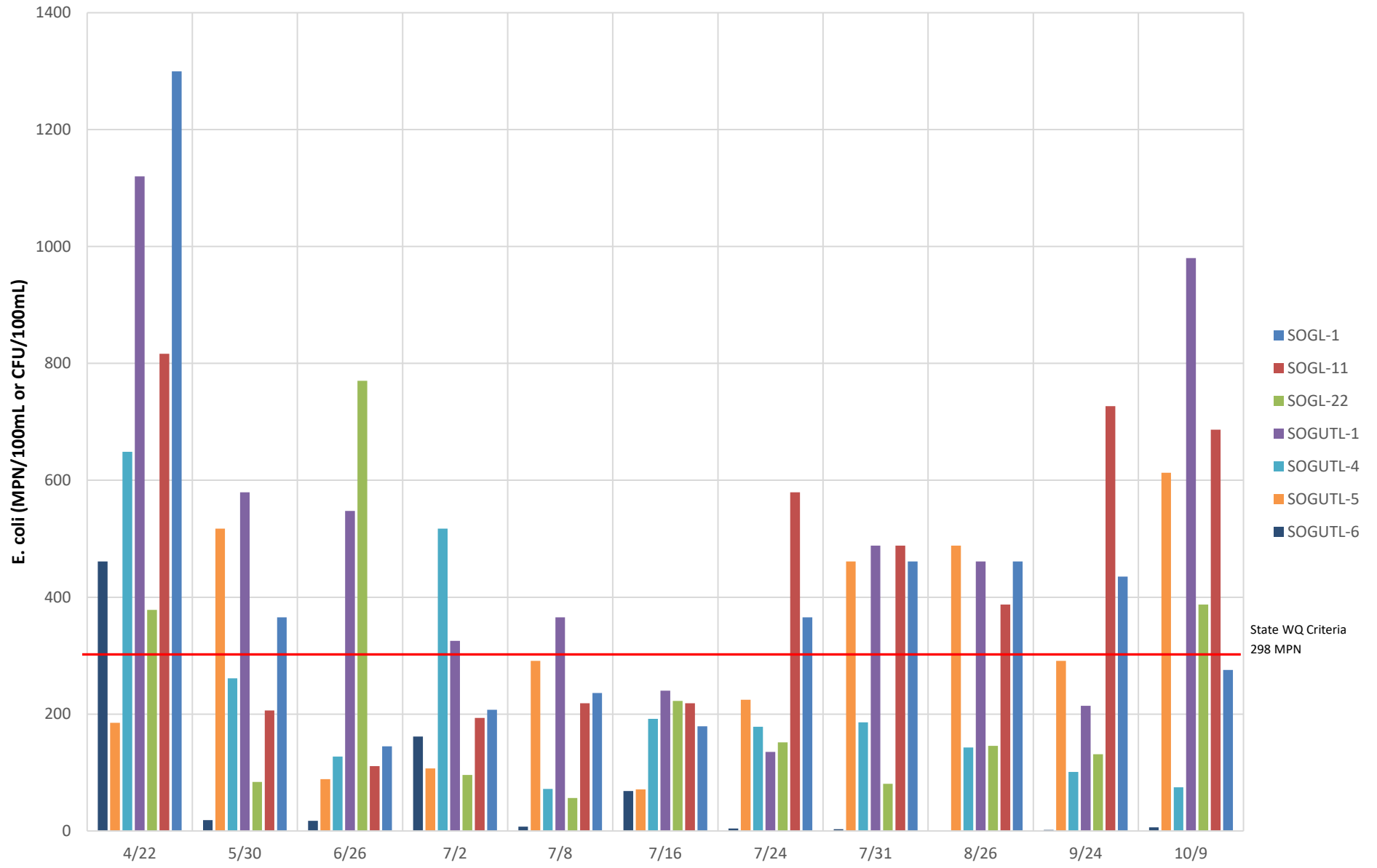
In 2024, streamflow was determined from the USGS streamgage 02418230 for site SOGL-1, SOGL-11, and SOGL-22. Water temperature, pH, dissolved oxygen, specific conductance, and turbidity were also measured in-situ at each site.

The July geomean data showed five (5) of seven (7) sites above the state water quality criteria for Saugahatchee Creek's designated use of Fish and Wildlife (126 MPN). Thirty-two (32) percent of the July single samples were above the state criteria for the single sample maximum of 298 MPN – down considerably from last year. Single sample maximum concentrations were the greatest on July 31st. There was rain during the 5-week geomean period, with all 5 weeks experiencing 72-hour antecedent precipitation. A total of 2.0 inches of rain fell during this 5-week period. SOGUTL-6 had the lowest geomean concentration (16 MPN). SOGUTL-4 and SOGUTL-5 were scarcely above the geomean criteria, with 188 MPN and 187 MPN, respectively.

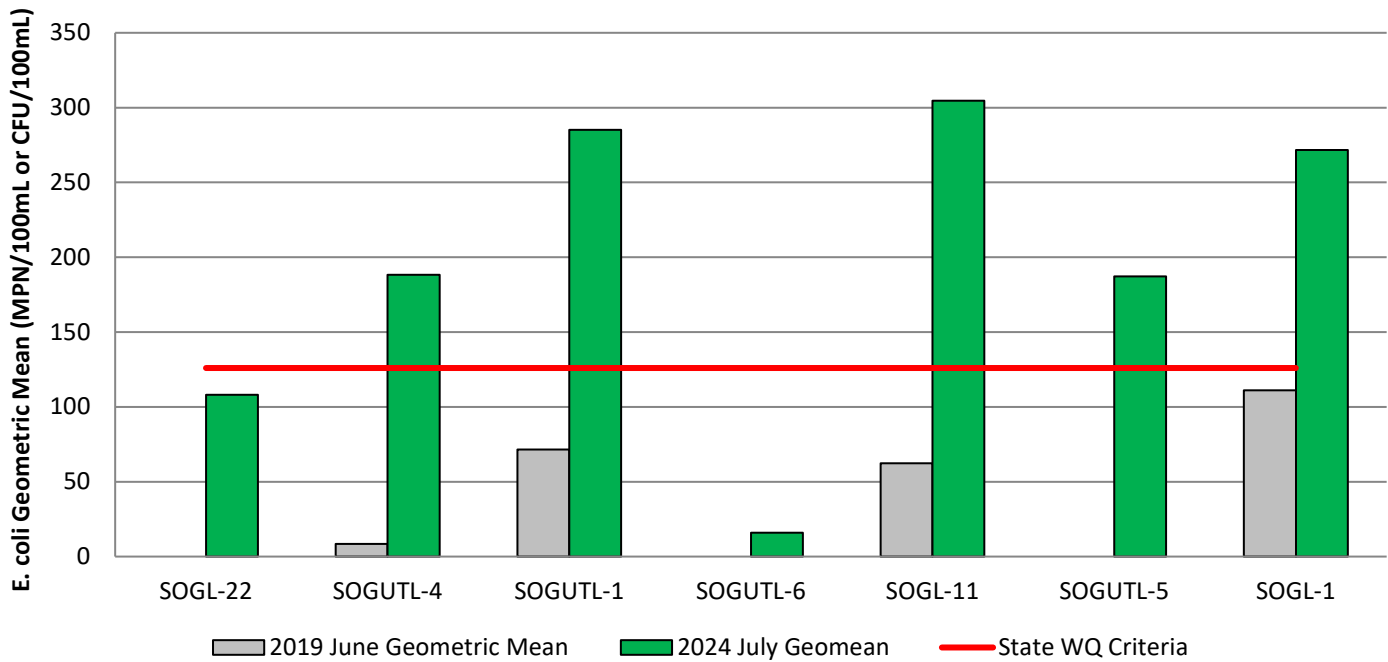


Saugahatchee Creek Watershed *E. coli* Monitoring Sites

Saugahatchee Creek *E. coli* Single Sample Results for 2024



Saugahatchee Creek *E. coli* Geomean Results for July 2024



Saugahatchee Creek Watershed Monitoring Data

Site Number	Pollutant of Concern	Site Location	Site Coordinates
1S	Total Phosphorus	Saugahatchee Creek at US HWY 280	32.657413 N, 85.459656 W
19S	Total Phosphorus	Saugahatchee Creek 0.35 mi upstream of N. Donahue Dr.	32.642777 N, 85.498761 W
4S	Total Phosphorus	Saugahatchee Creek at Northside WPCF	32.628185 N, 85.545705 W
5S	Total Phosphorus	Unnamed Tributary to Saugahatchee Creek	32.625847 N, 85.546404 W
20S	Total Phosphorus	Unnamed Tributary to Saugahatchee Creek	32.642492 N, 85.498606 W
21S	Total Phosphorus	Swingle Creek above Lee Rd. 188	32.655618 N, 85.575517 W
SOGL-1	<i>E. coli</i>	Saugahatchee Creek at Lee Rd. 188	32.626569 N, 85.588019 W
SOGL-11	<i>E. coli</i>	Saugahatchee Creek at Northside WPCF	32.628185 N, 85.545705 W
SOGL-22	<i>E. coli</i>	Saugahatchee Creek at HWY 280	32.657756 N, 85.459302 W
SOGUTL-1	<i>E. coli</i>	Unnamed Tributary to Saugahatchee Creek	32.635379 N, 85.490675 W
SOGUTL-4	<i>E. coli</i>	Unnamed Tributary to Saugahatchee Creek	32.635890 N, 85.481219 W
SOGUTL-5	<i>E. coli</i>	Unnamed Tributary to Saugahatchee Creek	32.625511 N, 85.545895 W
SOGUTL-6	<i>E. coli</i>	Unnamed Tributary to Saugahatchee Creek	32.631421 N, 85.510145 W

Water Quality Parameter	Analytical Method
Temperature (F)	YSI 5560
pH (Standard Units)	YSI 1001
Dissolved Oxygen (mg/L)	YSI 2003
Specific Conductance (µS/cm)	YSI 5560
Turbidity (NTU)	SM 2130 B
Total Phosphorus (mg/L)	EPA 365.4
<i>E. coli</i> (MPN)	IDEXX

**Saugahatchee Creek Watershed
Total Phosphorus Sampling Results**

Site Number	Sample Date	Sample Time	Sample Collected By & In-situ Parameters Analyzed By	Total Phosphorus (mg/L)	Temperature (F)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Turbidity (NTU)	Streamflow (cfs)	Streamflow (MGD)	Total Phosphorus Sample Analyzed By & Date
19S	6/24/2024	14:25	DK	0.172	78.4	7.26	6.72	112.4	-	32.3	20.9	BG (ERA) 7/1
19S	9/24/2024	10:35	DK	0.0155	71.0	7.55	7.29	189.8	-	15.1	9.8	BG (ERA) 10/1
19S	12/4/2024	11:05	DK	0.0155	40.6	7.42	12.6	153.1	-	22.4	14.5	BG (ERA) 12/11
19S	3/18/2025	13:10	DK	0.04	56.0	7.38	-	79.6	-	84.8	54.8	DS (ERA) 3/24
1S	6/24/2024	15:00	DK	0.121	76.0	7.35	7.26	100.5	-	32.3	20.9	BG (ERA) 7/1
1S	9/24/2024	14:00	DK	0.076	75.4	7.85	8.59	189.7	3.46	15.1	9.8	BG (ERA) 10/1
1S	12/4/2024	13:30	DK	0.095	44.8	7.66	13.17	141.3	3.17	21.4	13.8	BG (ERA) 12/11
1S	3/18/2025	13:55	DK	0.04	58.1	7.62	-	89.0	7.34	84.8	54.8	DS (ERA) 3/24
20S	6/24/2024	14:15	DK	0.092	75.6	7.23	6.74	115.1	-	-	-	BG (ERA) 7/1
20S	9/24/2024	10:30	DK	0.0155	69.4	7.54	7.48	121.4	4.36	-	-	BG (ERA) 10/1
20S	12/4/2024	10:55	DK	0.088	37.7	7.35	13.23	129.3	5.36	-	-	BG (ERA) 12/11
20S	3/18/2025	13:00	DK	0.0155	56.9	7.22	-	102.7	7.27	-	-	DS (ERA) 3/24
21S	6/24/2024	12:10	DK	0.136	69.6	6.92	8.16	56.8	12.3	-	-	BG (ERA) 7/1
21S	9/24/2024	9:55	DK	0.0155	67.4	7.37	8.49	69.4	5.28	-	-	BG (ERA) 10/1
21S	12/4/2024	10:15	DK	0.0155	37.4	7.36	14.65	81.2	11.19	-	-	BG (ERA) 12/11
21S	3/18/2025	12:30	DK	0.0155	51.9	7.15	-	58.0	14.4	-	-	DS (ERA) 3/24
4S	6/24/2024	13:40	DK	0.145	80.3	7.35	7.35	110.8	9.2	32.3	20.9	BG (ERA) 7/1
4S	9/24/2024	11:40	DK	0.069	74.0	7.58	7.47	168.0	5.06	15.1	9.8	BG (ERA) 10/1
4S	12/4/2024	12:55	DK	0.0155	42.1	7.45	13.54	137.2	5.09	21.9	14.2	BG (ERA) 12/11
4S	3/18/2025	11:10	DK	0.03	52.0	7.17	-	90.3	12.6	88.2	57.0	DS (ERA) 3/24
5S	6/24/2024	13:25	DK	0.112	72.8	6.91	6.43	107.0	13.6	-	-	BG (ERA) 7/1
5S	9/24/2024	11:25	DK	0.087	69.8	7.30	6.28	112.0	9.32	-	-	BG (ERA) 10/1
5S	12/4/2024	12:45	DK	0.115	40.6	7.32	15.7	106.4	6.79	-	-	BG (ERA) 12/11
5S	3/18/2025	11:00	DK	0.1	53.8	7.00	-	70.3	18.8	-	-	DS (ERA) 3/24

**Saugahatchee Creek Watershed
E. coli Sampling Results**

Site Number	Sample Date	Sample Time	Sample Collected By & In-situ Parameters Analyzed By	E. coli (MPN)	Temperature (F)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Turbidity (NTU)	Streamflow (cfs)	Streamflow (MGD)	E. coli Sample Analyzed By & Date
SOGL-1	10/9/2024	9:35	Sampler: DK	275.5	62.9	7.51	8.4	137.3	6.98	22	14.2	Analyst: DK 10/10
SOGL-1	9/24/2024	9:40	Sampler: DK	435.2	69	7.65	7.68	155.8	7.44	15.1	9.8	Analyst: DK 9/25
SOGL-1	8/26/2024	11:35	Sampler: DK	461.1	68.4	7.58	9.53	144.5	10.43	15.1	9.8	Analyst: DK 8/27
SOGL-1	7/31/2024	10:35	Sampler: DK	461.1	80	null	6.95	114.7	9.64	29.5	19.1	Analyst: DK 8/1
SOGL-1	7/24/2024	10:35	Sampler: DK	365.4	73.5	7.25	7.13	110.3	14.3	33.3	21.5	Analyst: DK 7/25
SOGL-1	7/16/2024	10:15	Sampler: DK	179.3	74.3	7.24	7.13	113	15.8	22.8	14.7	Analyst: DK 7/17
SOGL-1	7/8/2024	10:40	Sampler: DK	235.9	76.3	7.08	7.02	103	14.8	28.6	18.5	Analyst: DK 7/9
SOGL-1	7/2/2024	12:55	Sampler: DK	207.5	77.2	7.31	7.09	109.8	14.9	31.4	20.3	Analyst: DK 7/3
SOGL-1	6/26/2024	10:55	Sampler: DK	145	72.9	7.37	8	114.9	null	30.4	19.6	Analyst: DK 6/27
SOGL-1	5/30/2024	9:30	Sampler: DK	365.4	67	7.5	8.12	92.3	15.7	54.9	35.5	Analyst: DK 5/31
SOGL-1	4/22/2024	10:35	Sampler: DK	1299.7	56.7	7.27	9.43	84.2	22.3	92.6	59.8	Analyst: DK 4/23
SOGL-11	10/9/2024	10:25	Sampler: DK	686.7	64.7	7.51	8.19	139.4	6.02	22	14.2	Analyst: DK 10/10
SOGL-11	9/24/2024	11:40	Sampler: DK	727	74	7.58	7.47	168	5.06	15.3	9.9	Analyst: DK 9/25
SOGL-11	9/3/2024	13:35	Sampler: DK	387.3	77	7.59	6.8	142.9	9.76	14.5	9.4	Analyst: DK 8/27
SOGL-11	7/31/2024	11:20	Sampler: DK	488.4	81.9	null	7.15	126.6	12.1	30.4	19.6	Analyst: DK 8/1
SOGL-11	7/24/2024	11:25	Sampler: DK	579.4	75.6	7.21	7.03	125.8	15.4	33.3	21.5	Analyst: DK 7/25
SOGL-11	7/16/2024	11:10	Sampler: DK	218.7	78	7.35	6.81	125	11.4	23.6	15.3	Analyst: DK 7/17
SOGL-11	7/8/2024	12:20	Sampler: DK	218.7	79.9	7.3	6.34	118.9	11.2	26.9	17.4	Analyst: DK 7/9
SOGL-11	7/2/2024	13:55	Sampler: DK	193.5	80	7.36	6.68	121.1	13.9	28.6	18.5	Analyst: DK 7/3
SOGL-11	6/26/2024	11:55	Sampler: DK	111.2	78.3	7.35	7.03	122	null	29.5	19.1	Analyst: DK 6/27
SOGL-11	5/30/2024	13:30	Sampler: DK	206.4	71.8	7.26	7.52	111.6	12.6	56.2	36.3	Analyst: DK 5/31
SOGL-11	4/22/2024	12:45	Sampler: DK	816.4	59.9	7.28	9.03	88.9	19.8	89	57.5	Analyst: DK 4/23
SOGL-22	10/9/2024	11:20	Sampler: DK	387.3	66	7.87	9	152.5	4.4	23.6	15.3	Analyst: DK 10/10
SOGL-22	9/24/2024	14:00	Sampler: DK	131.4	75.4	7.85	8.59	189.7	3.46	15.1	9.8	Analyst: DK 9/25
SOGL-22	8/26/2024	14:35	Sampler: DK	145.5	75.2	7.6	7.44	155.2	7.25	15.8	10.2	Analyst: DK 8/27
SOGL-22	7/31/2024	13:15	Sampler: DK	80.9	81.1	null	7.4	142.1	11.3	30.4	19.6	Analyst: DK 8/1
SOGL-22	7/24/2024	13:10	Sampler: DK	151.5	74.6	7.32	7.41	136.3	16.3	34.3	22.2	Analyst: DK 7/25
SOGL-22	7/16/2024	13:05	Sampler: DK	222.4	76.2	7.44	7.51	120.3	14.5	23.6	15.3	Analyst: DK 7/17
SOGL-22	7/8/2024	13:20	Sampler: DK	56.5	77.9	7.47	7.5	120.8	10.68	26	16.8	Analyst: DK 7/9
SOGL-22	7/2/2024	14:45	Sampler: DK	95.9	75.4	7.56	7.73	129.4	9.66	27.7	17.9	Analyst: DK 7/3
SOGL-22	6/26/2024	12:45	Sampler: DK	770.1	74.3	7.53	7.85	130	null	30.4	19.6	Analyst: DK 6/27
SOGL-22	5/30/2024	14:30	Sampler: DK	83.9	69.9	7.68	8.97	118.2	6.72	56.2	36.3	Analyst: DK 5/31
SOGL-22	4/22/2024	13:45	Sampler: DK	378.4	61.7	7.5	7.69	84.2	12	87.2	56.4	Analyst: DK 4/23

**Saugahatchee Creek Watershed
E. coli Sampling Results (continued)**

Site Number	Sample Date	Sample Time	Sample Collected By & In-situ Parameters Analyzed By	E. coli (MPN)	Temperature (F)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Turbidity (NTU)	Streamflow (cfs)	Streamflow (MGD)	E. coli Sample Analyzed By & Date
SOGUTL-1	10/9/2024	10:50	DK	980.4	65.8	7.35	8.86	117.2	2.08	-	-	DK 10/10
SOGUTL-1	9/24/2024	13:35	DK	214.3	72	7.47	8.31	108.9	2.5	-	-	DK 9/25
SOGUTL-1	8/26/2024	13:55	DK	461.1	71.1	7.43	8.75	108.2	2.13	-	-	DK 8/27
SOGUTL-1	7/31/2024	12:45	DK	488.4	79.6	-	7.75	118.5	2.74	-	-	DK 8/1
SOGUTL-1	7/24/2024	12:40	DK	135.4	73.1	6.95	7.92	102.4	2.91	-	-	DK 7/25
SOGUTL-1	7/16/2024	12:35	DK	240	75.1	7.07	7.99	103.9	2.69	-	-	DK 7/17
SOGUTL-1	7/8/2024	12:45	DK	365.4	76.7	6.98	7.39	104.9	3.14	-	-	DK 7/9
SOGUTL-1	7/2/2024	14:10	DK	325.5	74.7	7.02	7.33	110.3	9	-	-	DK 7/3
SOGUTL-1	6/26/2024	12:15	DK	547.5	74.9	7.07	8.09	115.7	-	-	-	DK 6/27
SOGUTL-1	5/30/2024	13:50	DK	579.4	66.6	7	8.52	106.9	6.75	-	-	DK 5/31
SOGUTL-1	4/22/2024	13:15	DK	1119.9	57.1	6.91	9.35	116.5	7.1	-	-	DK 4/23
SOGUTL-4	10/9/2024	11:00	DK	74.9	64	7.51	8.4	138.4	4.92	-	-	DK 10/10
SOGUTL-4	9/24/2024	13:45	DK	101.2	71.1	7.56	7.86	140.1	3.09	-	-	DK 9/25
SOGUTL-4	8/26/2024	14:15	DK	143	69.4	7.64	8.78	139.5	2.59	-	-	DK 8/27
SOGUTL-4	7/31/2024	12:55	DK	186	78.3	-	7.69	135.1	2.5	-	-	DK 8/1
SOGUTL-4	7/24/2024	12:50	DK	178.2	72.3	7.17	7.55	132.2	2.98	-	-	DK 7/25
SOGUTL-4	7/16/2024	12:45	DK	191.8	73.7	7.35	7.51	138.7	3.83	-	-	DK 7/17
SOGUTL-4	7/8/2024	13:00	DK	71.9	74.8	7.29	7.48	128.9	3.12	-	-	DK 7/9
SOGUTL-4	7/2/2024	14:25	DK	517.2	74.4	7.41	7.5	132.6	2.93	-	-	DK 7/3
SOGUTL-4	6/26/2024	12:20	DK	127.4	72.5	7.26	6.95	129.1	-	-	-	DK 6/27
SOGUTL-4	5/30/2024	14:05	DK	261.3	67.2	7.28	8.6	126.3	4.36	-	-	DK 5/31
SOGUTL-4	4/22/2024	13:30	DK	648.8	57.2	7.15	9.63	119.3	8.33	-	-	DK 4/23
SOGUTL-5	10/9/2024	10:15	DK	613.1	63.6	7.4	7.76	105.7	7.53	-	-	DK 10/10
SOGUTL-5	9/24/2024	11:25	DK	290.9	69.8	7.3	6.28	112	9.32	-	-	DK 9/25
SOGUTL-5	8/26/2024	13:25	DK	488.4	68.9	7.46	9.12	106.8	5.98	-	-	DK 8/27
SOGUTL-5	7/31/2024	11:10	DK	461.1	79.5	-	7.58	82.7	5.37	-	-	DK 8/1
SOGUTL-5	7/24/2024	11:20	DK	224.7	73.6	6.94	6.84	65.5	6.39	-	-	DK 7/25
SOGUTL-5	7/16/2024	11:05	DK	71.2	73	7.04	6.97	98.7	7.49	-	-	DK 7/17
SOGUTL-5	7/8/2024	12:10	DK	290.9	77.4	6.96	6.43	70.4	7.52	-	-	DK 7/9
SOGUTL-5	7/2/2024	13:40	DK	107.1	76.1	7.04	6.64	83.2	6.08	-	-	DK 7/3
SOGUTL-5	6/26/2024	11:40	DK	88.6	71.3	7.07	7.13	102.6	-	-	-	DK 6/27
SOGUTL-5	5/30/2024	13:15	DK	517.2	71.7	6.97	7.78	65.3	14.6	-	-	DK 5/31
SOGUTL-5	4/22/2024	12:30	DK	185	60.1	7.01	8.89	75.4	7.35	-	-	DK 4/23
SOGUTL-6	10/9/2024	10:00	DK	6.1	73.6	7.92	8.9	89.8	5.27	-	-	DK 10/10
SOGUTL-6	9/24/2024	11:05	DK	2	81.6	8.53	9.5	106.6	7.46	-	-	DK 9/25
SOGUTL-6	8/26/2024	12:00	DK	0	82	8.67	9.14	102.2	6.99	-	-	DK 8/27
SOGUTL-6	7/31/2024	10:55	DK	3	89.2	-	7.72	97.5	3.49	-	-	DK 8/1
SOGUTL-6	7/24/2024	11:00	DK	4.1	83.8	7.65	7.19	100.2	3.62	-	-	DK 7/25
SOGUTL-6	7/16/2024	10:45	DK	68.3	86.4	8.31	8.95	102.5	4.7	-	-	DK 7/17
SOGUTL-6	7/8/2024	11:05	DK	7.5	87.6	8.13	7.64	96.9	4.81	-	-	DK 7/9
SOGUTL-6	7/2/2024	13:15	DK	161.6	85.2	7.91	7.32	106.8	6.77	-	-	DK 7/3
SOGUTL-6	6/26/2024	11:20	DK	17.5	87.3	8.94	11.26	109.6	-	-	-	DK 6/27
SOGUTL-6	5/30/2024	9:55	DK	18.7	75.1	7.33	7.73	80.8	25.7	-	-	DK 5/31
SOGUTL-6	4/22/2024	11:00	DK	461.1	67.4	7.42	8.41	127.5	9.84	-	-	DK 4/23

2.5 Parkerson Mill Creek Compliance Monitoring

Parkerson Mill Creek was placed on the ADEM 303(d) list of impaired waterbodies for pathogens in 2008. The impaired reach is 6.85 mi. long and includes all waters from its source (near the intersection of N. College St. and Glenn Ave. in downtown Auburn) to its confluence with Chewacla Creek. Potential sources of pathogens were listed as sanitary sewer overflows and urban runoff. In 2010, ADEM collected samples at stations PM3, PKML-1, PKML-5, and PKML-2 to determine the basis for the TMDL. The final Parkerson Mill Creek TMDL was issued in September 2011, identifying *E. coli* as the pollutant of concern. The Parkerson Mill Creek TMDL established the *E. coli* limits in stormwater at 3.42E+09 colonies/day, also expressed as a 61% reduction in non-point sources. This TMDL was established using the geometric mean criterion of 126 cfu/100mL or MPN.

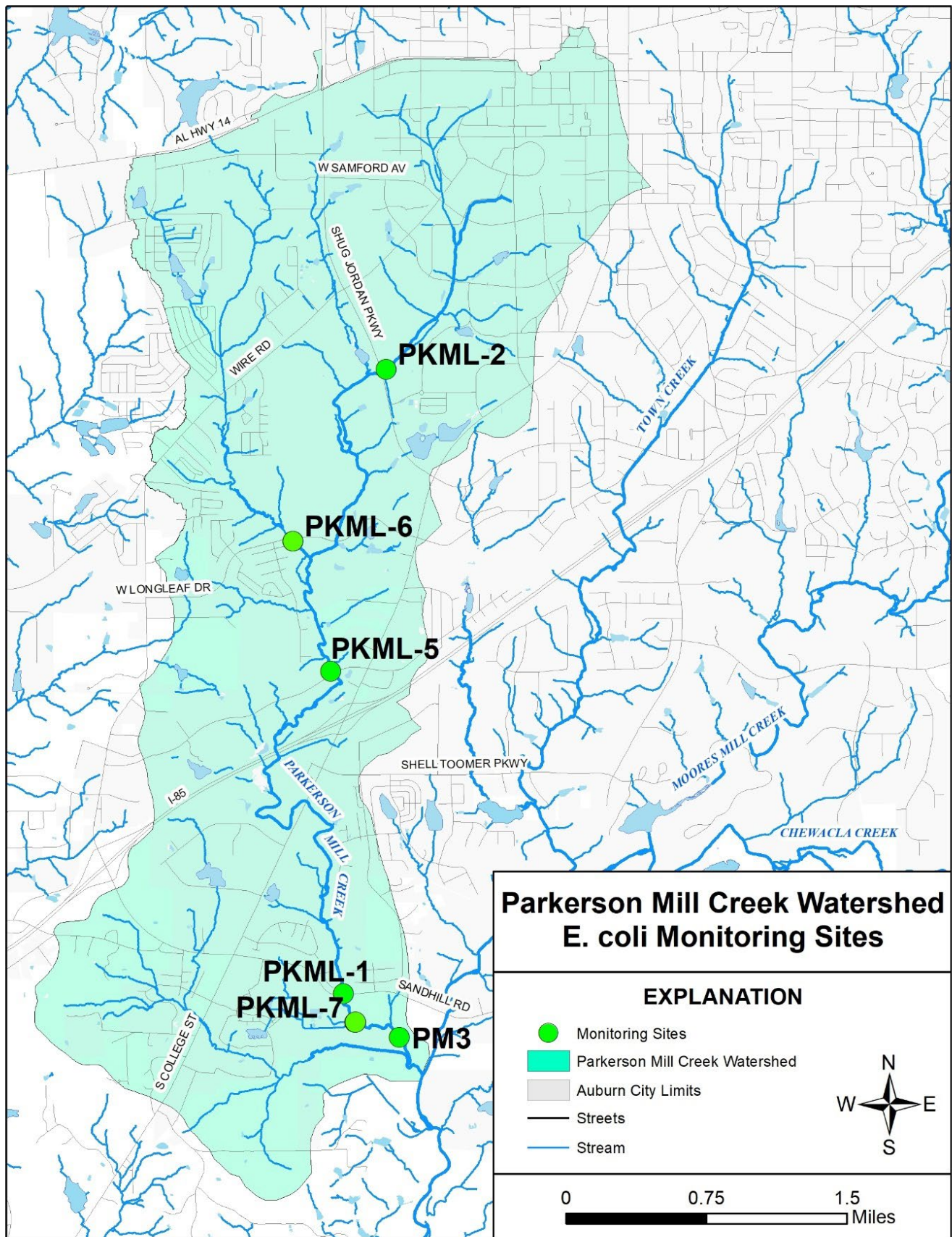
Because of the impairment and subsequent TMDL, the City has been monitoring *E. coli* concentrations in Parkerson Mill Creek through intensive *E. coli* sampling at the same four (4) monitoring sites used by ADEM

since 2015. The City added two (2) sites (PKML-6 and PKML-7) to the sampling schedule in 2021 to further refine the possible sources of high *E. coli* concentrations in the watershed.

Single samples were collected for *E. coli* once per month for April, May, July, September, and October. Weekly samples were collected at those sites during June. The 5-week geometric mean *E. coli* concentrations were calculated based on the results of the weekly sampling. The City also made a reasonable effort to measure streamflow in-situ (recorded in cfs and MGD) at PM3 after water samples are collected when flow conditions permit. Streamflow at sites along the main stem of Parkerson Mill Creek was determined using the City's streamgage located just downstream of Sandhill Rd. at the H.C. Morgan Water Pollution Control Facility. Water temperature, pH, dissolved oxygen, specific conductance, and turbidity are also measured in-situ at each site.

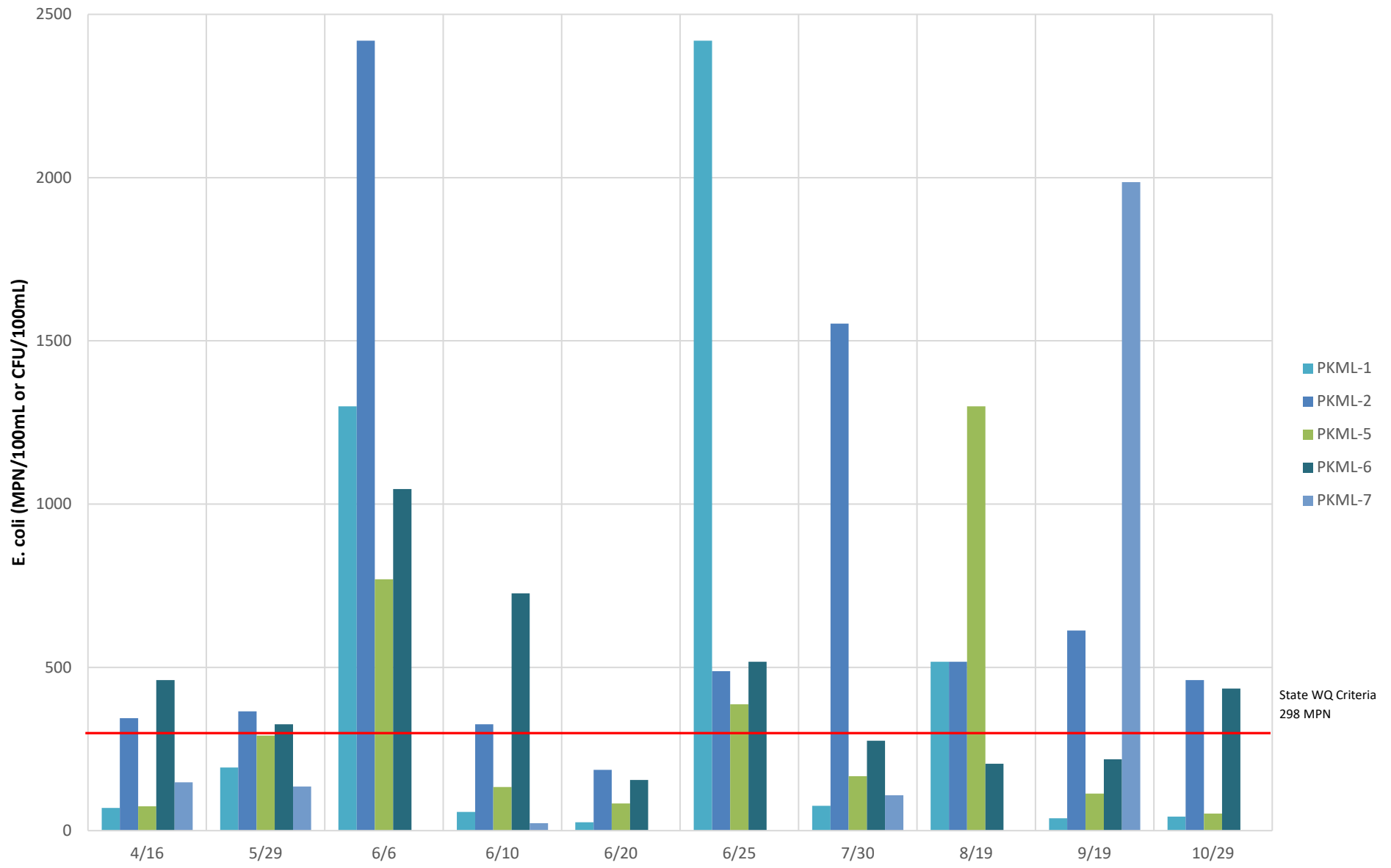
2.5.1 Parkerson Mill Creek *E. coli* Monitoring Results

In general, over the last decade *E. coli* concentrations in Parkerson Mill Creek are higher in the upper reaches near sample sites PKML-2 and PKML-5. *E. coli* concentrations are lower near sample site PKML-1 and then increase again at site PM3 as the creek nears its confluence with Chewacla Creek. This trend has generally been predictable going back to the ADEM study in 2010. The 2024 geomean data showed five (5) of six (6) sites above the state water quality criteria for Parkerson Mill Creek's designated use of Fish and Wildlife (126 MPN). Sixty-one percent (61%) of the single samples were above the state criteria for the single sample maximum of 298 MPN. Single sample maximum concentrations were the greatest on June 6th. PKML-7 had the lowest geomean concentration (55 MPN), and PM3 had the highest geomean concentration (811 MPN).

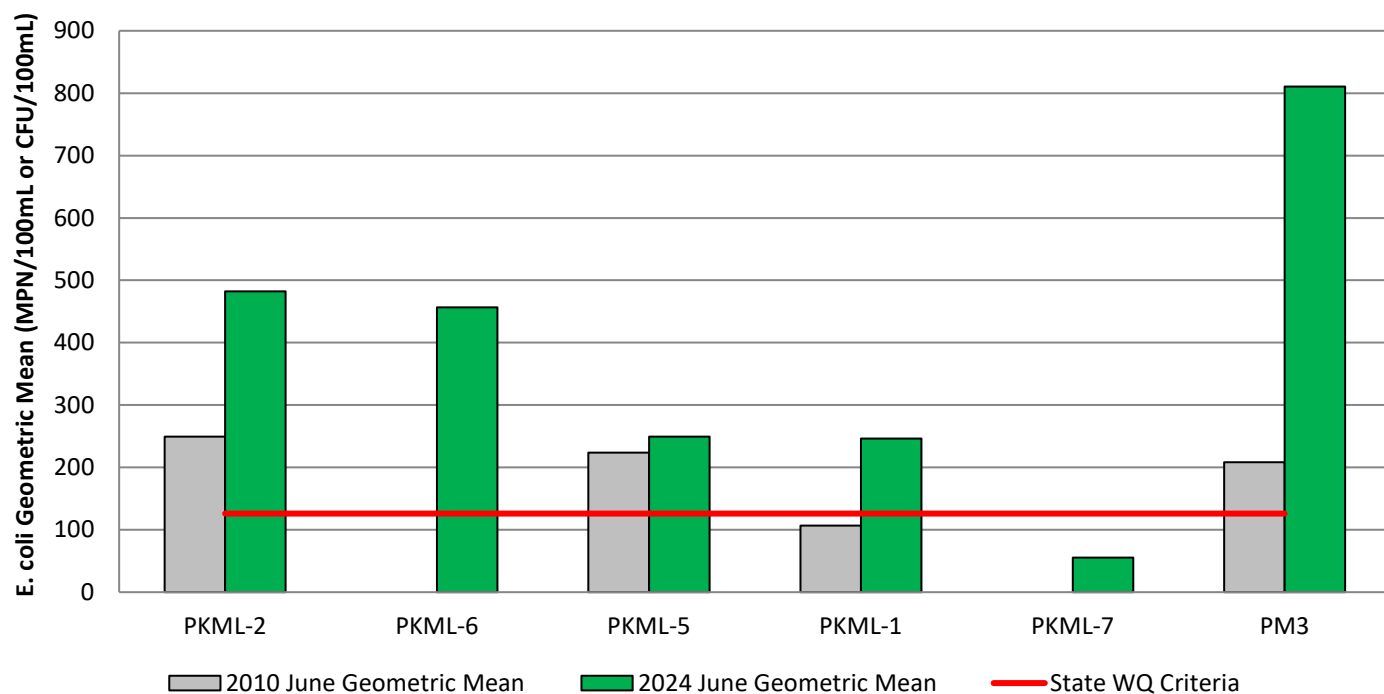


Parkerson Mill Creek Watershed Monitoring Sites

Parkerson Mill Creek *E. coli* Single Sample Results for 2024



Parkerson Mill Creek *E. coli* Geomean Results for June 2024



Parkerson Mill Creek Watershed Monitoring Data

Site Number	Site Location	Site Coordinates
PKML-1	Parkerson Mill Creek at Sand Hill Rd	32.53744 N, 85.50601 W
PKML-2	Parkerson Mill Creek at Shug Jordan Pkwy	32.58551 N, 85.50249 W
PKML-5	Parkerson Mill Creek at W. Veterans Blvd	32.56243 N, 85.50716 W
PKML-6	Unnamed Tributary to Parkerson Mill Creek	32.57266 N, 85.51073 W
PKML-7	Unnamed Tributary to Parkerson Mill Creek	32.53539 N, 85.50560 W
PM-3	Parkerson Mill Creek below HC Morgan WPCF	32.53427 N, 85.50156 W
Water Quality Parameter		Analytical Method
Temperature (F)		YSI 5560
pH (Standard Units)		YSI 1001
Dissolved Oxygen (mg/L)		YSI 2003
Specific Conductance (μS/cm)		YSI 5560
Turbidity (NTU)		SM 2130 B
<i>E. coli</i> (MPN)		IDEXX

Parkerson Mill Creek Watershed <i>E. coli</i> Sampling Results												
Site Number	Sample Date	Sample Time	Sample Collected By & In-situ Parameters Analyzed By	<i>E. coli</i> (MPN)	Temperature (F)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Turbidity (NTU)	Streamflow (cfs)	Streamflow (MGD)	<i>E. coli</i> Sample Analyzed By & Date
PKML-1	4/16/2024	10:25	DK	69.7	61.2	7.9	10.05	172.9	2.59	2.3	1.5	DK 4/17
PKML-1	5/29/2024	10:20	DK	193.5	68.5	7.9	8.88	121.6	11.6	7	4.5	DK 5/30
PKML-1	6/6/2024	12:50	DK	1299.7	73.5	7.99	8.6	117.6	14.8	6.7	4.3	DK 6/7
PKML-1	6/10/2024	10:55	DK	57.3	73.8	8.05	8.77	164.7	2.13	2.1	1.4	DK 6/11
PKML-1	6/20/2024	11:50	DK	25.9	74	8.28	9.69	183.1	1.99	0.7	0.5	DK 6/21
PKML-1	6/25/2024	9:45	DK	2419.6	73.9	7.65	7.44	137.5	-	1.2	0.8	DK 6/26
PKML-1	7/30/2024	11:10	DK	75.9	80.3	-	7.9	157.6	4.58	0.8	0.5	DK 7/31
PKML-1	8/19/2024	11:00	DK	517.2	74	7.99	7.93	161.4	12.2	0.1	0.1	DK 8/20
PKML-1	9/19/2024	10:35	DK	37.9	69.3	7.92	8.93	149.1	2.46	1.13	0.7	DK 9/20
PKML-1	10/29/2024	10:25	RM	42.6	59.7	7.97	9.33	206.9	1.45	2.56	1.7	DR 10/30
PKML-2	4/16/2024	12:25	DK	344.8	61.5	7.93	10.45	281.1	2.17	2.5	1.6	DK 4/17
PKML-2	5/29/2024	11:10	DK	365.4	67.9	7.71	8.5	195.2	9.69	7	4.5	DK 5/30
PKML-2	6/6/2024	13:35	DK	>2419.6	71	7.85	8.4	223.4	5.11	6.4	4.1	DK 6/7
PKML-2	6/10/2024	11:55	DK	325.5	71.8	7.93	8.85	253.5	1.39	1.9	1.2	DK 6/11
PKML-2	6/20/2024	12:50	DK	186	71.7	8.03	9.5	264.5	1.11	0.7	0.5	DK 6/21
PKML-2	6/25/2024	15:40	DK	488.4	76.2	7.81	7.11	207	-	1.1	0.7	DK 6/26
PKML-2	7/30/2024	12:00	DK	1553.1	78.6	-	7.6	208.9	2.62	0.7	0.5	DK 7/31
PKML-2	8/19/2024	11:50	DK	517.2	73.1	7.56	6.53	161.3	2.18	-	-	DK 8/20
PKML-2	9/19/2024	11:20	DK	613.1	68.3	8	8.3	258.2	1.02	1.13	0.7	DK 9/20
PKML-2	10/29/2024	11:35	RM	461.1	59.5	7.99	9.02	281	0.65	2.56	1.7	DR 10/30
PKML-5	4/16/2024	11:55	DK	74.3	61.5	7.66	10.96	177.2	3.54	2.5	1.6	DK 4/17
PKML-5	5/29/2024	10:35	DK	290.9	68.7	7.55	8.65	130.1	12.1	7	4.5	DK 5/30
PKML-5	6/6/2024	13:05	DK	770.1	72.9	7.53	8.02	116.4	8.43	6.7	4.3	DK 6/7
PKML-5	6/10/2024	11:15	DK	133.3	72.2	7.7	8.88	173.3	1.98	2.1	1.4	DK 6/11
PKML-5	6/20/2024	12:15	DK	83.6	72.1	7.81	9.09	189.9	1.51	0.7	0.5	DK 6/21
PKML-5	6/25/2024	15:15	DK	387.3	79.4	7.34	7.12	133.6	-	1.1	0.7	DK 6/26
PKML-5	7/30/2024	11:30	DK	166.4	79.4	-	7.92	180.1	1.35	0.7	0.5	DK 7/31
PKML-5	8/19/2024	11:20	DK	1299.7	72.4	7.66	7.07	201.3	6.07	0.1	0.1	DK 8/20
PKML-5	9/19/2024	10:50	DK	113.7	68.5	7.63	7.98	144.1	1.43	1.13	0.7	DK 9/20
PKML-5	10/29/2024	10:45	RM	52.4	59.3	7.76	8.96	206.6	1.54	2.56	1.7	DR 10/30
PKML-6	4/16/2024	12:10	DK	461.1	60.2	7.29	9.35	147.4	3.89	-	-	DK 4/17
PKML-6	5/29/2024	10:55	DK	325.5	67.5	7.34	8.22	114.1	5.8	-	-	DK 5/30
PKML-6	6/6/2024	13:20	DK	1046.2	71.1	7.28	7.64	114.1	6.2	-	-	DK 6/7
PKML-6	6/10/2024	11:35	DK	727	69.7	7.2	7.93	142.5	2.56	-	-	DK 6/11
PKML-6	6/20/2024	12:35	DK	155.3	69.7	7.31	7.75	114.5	1.63	-	-	DK 6/21
PKML-6	6/25/2024	15:25	DK	517.2	73.5	7.14	6.6	130.4	-	-	-	DK 6/26
PKML-6	7/30/2024	11:45	DK	275.5	76.7	-	7.71	146	1.95	-	-	DK 7/31
PKML-6	8/19/2024	11:35	DK	204.6	70.7	7.26	7.22	103.6	8.94	-	-	DK 8/20
PKML-6	9/19/2024	11:05	DK	218.7	66.8	7.48	8.04	126.9	1.89	-	-	DK 9/20
PKML-6	10/29/2024	11:05	RM	435.2	58.8	7.48	8.89	147.6	1.14	-	-	DR 10/30
PKML-7	4/16/2024	10:05	DK	148.3	59.9	7.23	9.2	76.8	9.86	-	-	DK 4/17
PKML-7	5/29/2024	10:00	DK	135.4	71.8	7.22	7.67	42.2	11.03	-	-	DK 5/30
PKML-7	6/10/2024	10:45	DK	22.6	76.4	7.31	7.64	42.9	8.15	-	-	DK 6/11
PKML-7	7/30/2024	11:05	DK	108.1	80.8	-	6.37	108.5	5.77	-	-	DK 7/31
PKML-7	9/19/2024	10:25	DK	1986.3	68	7.25	7.07	81.7	4.76	-	-	DK 9/20
PM3	4/16/2024	9:40	DK	161.6	64.2	7.27	8.52	263.2	6.82	15.6306	10.1	DK 4/17
PM3	5/29/2024	9:30	DK	344.8	69.1	7.48	8.45	181.5	8.28	19.1209	12.4	DK 5/30
PM3	6/6/2024	12:10	DK	1986.3	72.4	7.46	8.1	195.9	8.24	23.5332	15.2	DK 6/7
PM3	6/10/2024	10:10	DK	648.8	73	7.41	8.01	233.4	1.8	12.8633	8.3	DK 6/11
PM3	6/20/2024	11:20	DK	325.5	74.2	7.49	8.27	243.9	2.62	13.2362	8.6	DK 6/21
PM3	6/25/2024	9:15	DK	2419.6	74.1	7.5	7.21	224	-	14.2352	9.2	DK 6/26
PM3	7/30/2024	10:50	DK	365.4	80.6	-	7.83	287.7	2.59	-	-	DK 7/31
PM3	8/19/2024	10:45	DK	344.8	77.1	7.59	6.99	232.9	4.37	-	-	DK 8/20
PM3	9/19/2024	9:55	DK	435.2	74.5	7.47	7.15	241	4.69	12.1914	7.9	DK 9/20
PM3	10/29/2024	9:55	RM	261.3	68.6	7.53	7.99	267.5	1.91	-	-	DR 10/30

2.6 Moore's Mill Creek Compliance Monitoring

Moore's Mill Creek was placed on the draft 303(d) list for siltation in 1998 and has been on the Final 303(d) list since 2000. The impaired reach is 10.51 mi. and includes all waters from its source to the confluence with Chewacla Creek at Chewacla State Park. Habitat degradation due to sedimentation/siltation is the impairment in Moore's Mill Creek. ADEM cites land development and urban runoff/storm sewers as potential

sources of the impairment. The Moore's Mill Creek Watershed Management Plan was completed in 2008. This plan outlined several objectives aimed to reduce sedimentation and mitigate habitat degradation. Included in the plan were geomorphic surveys and Bank Erosion Hazard Index (BEHI) assessments of stream reaches on both the main stem and tributaries throughout the watershed. Findings from these geomorphic surveys and BEHI assessments identified in-stream sediment loading from streambank erosion as a significant contributor to the impairment. The watershed management plan recommended continued monitoring of these sites to evaluate the success of future efforts aimed at reducing bank erosion.

Moore's Mill Creek was placed on the Final ADEM 303(d) list for pathogen impairment in 2022. The impaired reach is 10.51 mi. long and includes waters from its source to the confluence with Chewacla Creek. ADEM considered collection system failure and urban runoff/storm sewers as potential sources of the impairment. According to the 2022 303(d) List Fact Sheet <https://adem.alabama.gov/programs/water/wquality/2022AL303dFactSheet.pdf>, ADEM collected samples at stations MMLT-1A and MMLT-1C in 2020 to determine the basis for adding Moore's Mill Creek to the 303(d) list. Their records indicate that 4 of 8 samples at MMLT-1A and 3 of 8 samples at MMLT-1C exceeded the single sample maximum criterion of 235 MPN. Moore's Mill Creek has a State Use Classification of both Swimming and Fish & Wildlife. The Swimming classification has a more stringent *E. coli* concentration criteria than the Fish and Wildlife classification (235 MPN versus 298 MPN).

The City has monitored streambank erosion and deposition at eight (8) reaches in the Moore's Mill Creek watershed since 2018. These stream geomorphic surveys were conducted at two (2) cross-sections at each reach using both a total station and RTK GPS surveying instruments. Geomorphic parameters that are commonly used to indicate the stability of a stream reach were derived from these cross-section surveys. Cross-sections were compared to previous years' surveys to indicate the degree of erosion or deposition observed at each site.

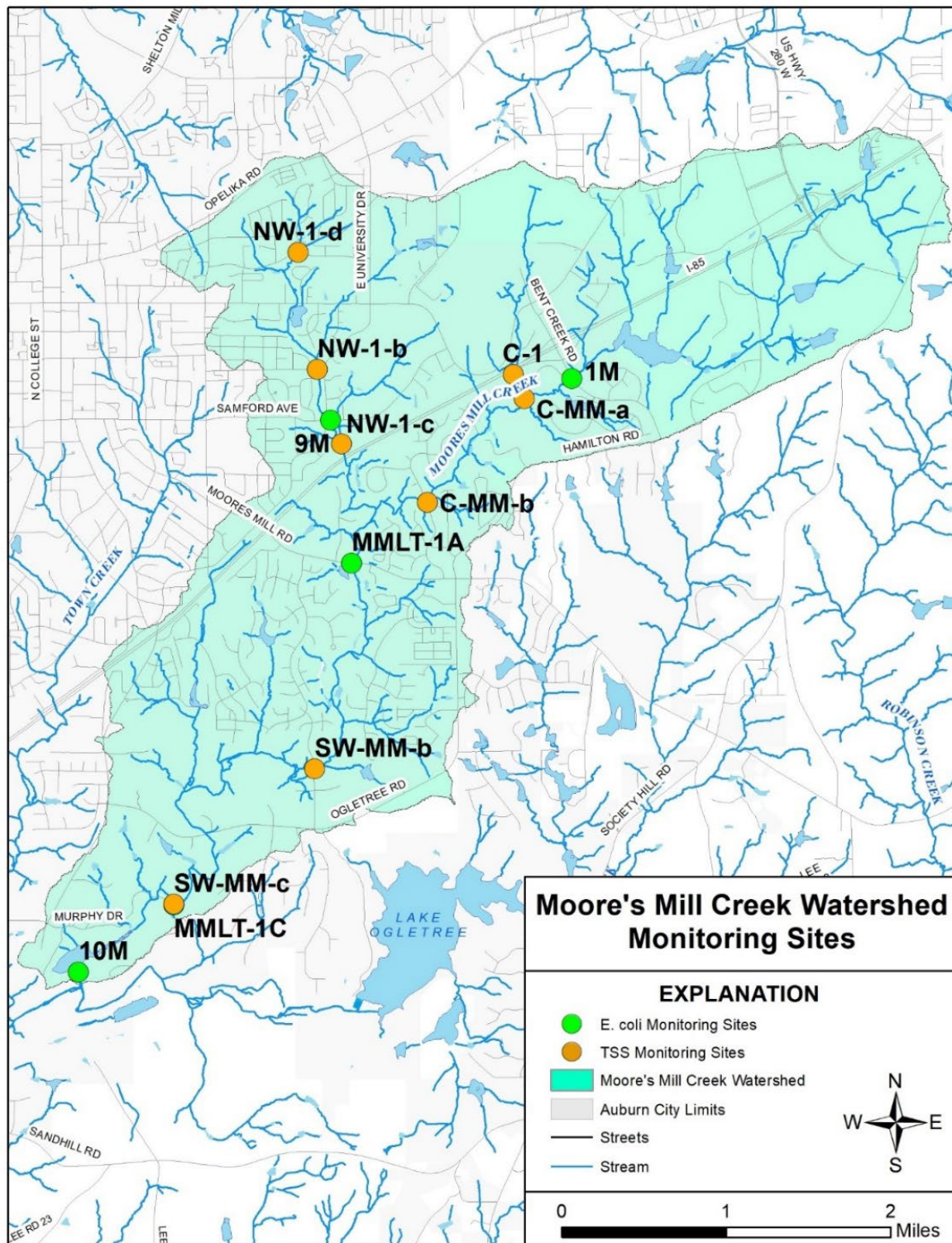
The City monitored total suspended solids (TSS) in the Moore's Mill Creek watershed through quarterly TSS sampling at the eight (8) streambank erosion sites. Other than after a storm event and a few seasonal exceptions (such as during the fall of the year), a gaining headwater stream such as Moore's Mill Creek should be relatively free of TSS during periods of low flow. Most of the flow in the channel comes from groundwater and has been filtered through the local soil layers. High TSS concentrations in these streams during low flow may indicate chronic bank failure, failing construction site best management practices (bmp's), or activity from wildlife such as beavers. Quarterly measurements of water temperature, pH, dissolved oxygen, specific conductance, and turbidity were also conducted in-situ at these eight (8) sites.

The City monitored *E. coli* concentrations in the Moore's Mill Creek watershed through intensive *E. coli* sampling at five (5) sites in 2024. Water temperature, pH, dissolved oxygen, specific conductance, and turbidity were also measured in-situ at each site. In 2024, weekly samples were collected in August, and monthly samples were collected in April, May, June, July, September, and October. The 5-week geometric mean was calculated based on the results of the weekly August sampling.

2.6.1 Moore's Mill Creek *E. coli* Monitoring Results

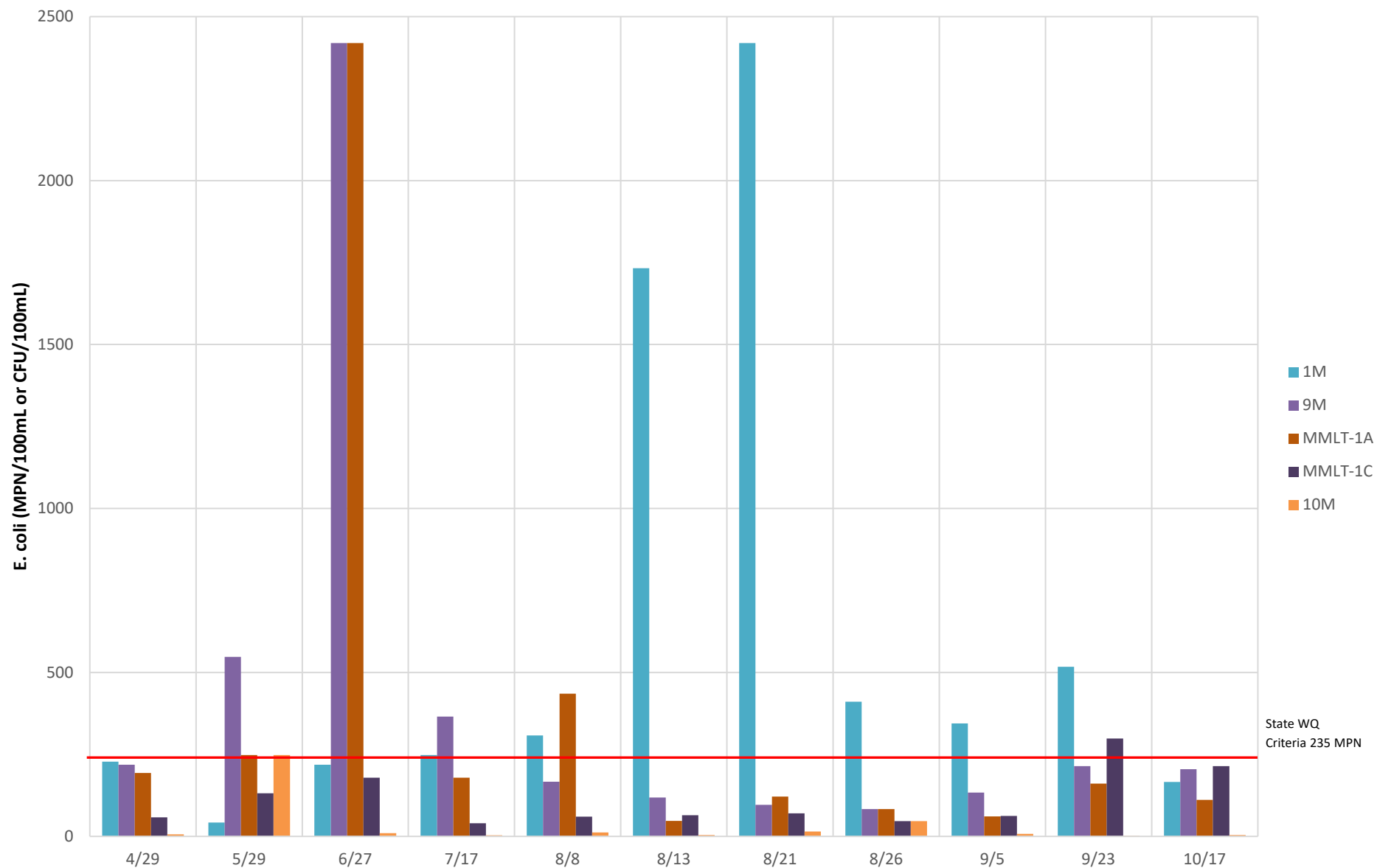
The geomean data showed only one (1) of the five (5) sites above state water quality criteria for Moore's Mill Creek's designated use of Swimming (126 MPN). Six (6) of the twenty-five (25) samples were above the

state criteria for the single sample maximum of 235 MPN. All but one of these samples were collected at site 1M, where the City of Auburn’s MS4 jurisdiction begins at the most upstream location on Moore’s Mill Creek. 10M had the lowest geomean concentration (12 MPN), and 1M had the highest geomean concentration (712 MPN).

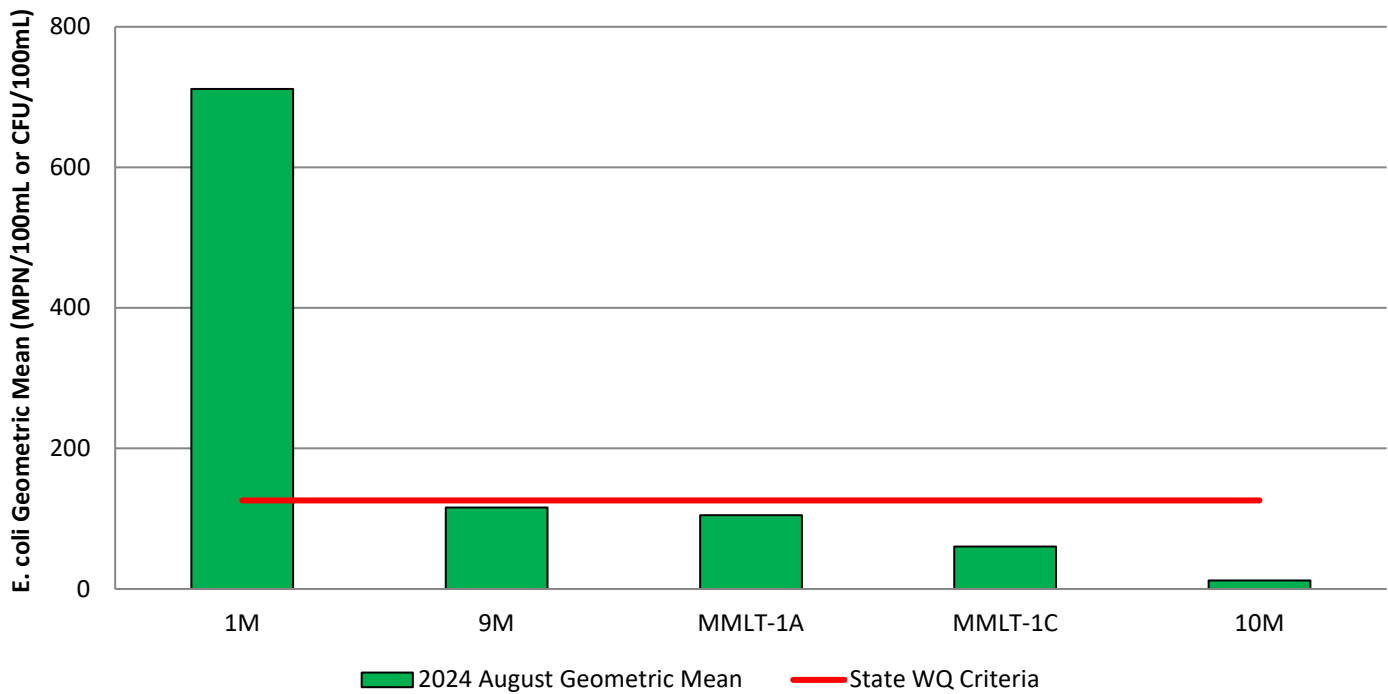


Moore's Mill Creek Watershed Monitoring Sites

Moore's Mill Creek *E. coli* Single Sample Results for 2024



Moore's Mill Creek *E. coli* Geomean Results for August 2024



2.6.3 Moore's Mill Creek Total Suspended Solids Compliance Monitoring Results

Quarterly samples of TSS, water temperature, pH, dissolved oxygen, specific conductance, and turbidity were measured in-situ at each of the eight (8) streambank erosion monitoring sites. TSS values were relatively low at all sites, with site C-MM-a exhibiting the highest concentrations. This site was impacted by a beaver dam downstream, which reduced velocities through the reach and encouraged the settling of fine deposits. Storm events likely resuspended the fine deposits and led to the higher values of TSS at this site.

Moore's Mill Creek Watershed Monitoring Data

Site Number	Pollutant of Concern	Sample Point Coordinates	Reach Length	Upstream Coordinates	Downstream Coordinates
C-1	Total Suspended Solids	32.601317 N, 85.432751 W	550 ft.	32.601404 N, 85.432698 W	32.600192 N, 85.432044 W
C-MM-a	Total Suspended Solids	32.600547 N, 85.431499 W	950 ft.	32.600874 N, 85.428538 W	32.600530 N, 85.431463 W
C-MM-b	Total Suspended Solids	32.591393 N, 85.441716 W	1100 ft.	32.591034 N, 85.442119 W	32.590912 N, 85.444596 W
NW-1-b	Total Suspended Solids	32.603218 N, 85.453167 W	600 ft.	32.603946 N, 85.453310 W	32.602333 N, 85.453047 W
NW-1-c	Total Suspended Solids	32.596551 N, 85.450685 W	850 ft.	32.597506 N, 85.451326 W	32.595712 N, 85.450483 W
NW-1-d	Total Suspended Solids	32.613251 N, 85.455441 W	950 ft.	32.613527 N, 85.455178 W	32.611580 N, 85.456570 W
SW-MM-b	Total Suspended Solids	32.567913 N, 85.453569 W	650 ft.	32.568631 N, 85.451830 W	32.567873 N, 85.453612 W
SW-MM-c	Total Suspended Solids	32.555958 N, 85.468278 W	1350 ft.	32.559094 N, 85.463712 W	32.558760 N, 85.466685 W
1M	<i>E. coli</i>	32.602314 N, 85.426609 W	N/A	N/A	N/A
9M	<i>E. coli</i>	32.598475 N, 85.451829 W	N/A	N/A	N/A
MMLT-1A	<i>E. coli</i>	32.586139 N, 85.449657 W	N/A	N/A	N/A
MMLT-1C	<i>E. coli</i>	32.555958 N, 85.468278 W	N/A	N/A	N/A
10M	<i>E. coli</i>	32.549943 N, 85.478181 W	N/A	N/A	N/A

Moore's Mill Creek Watershed
***E. coli* Sampling Results**

Site Number	Sample Date	Sample Time	Sample Collected By & In-situ Parameters Analyzed By	<i>E. coli</i> (MPN)	Temperature (F)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Turbidity (NTU)	Streamflow (cfs)	Streamflow (MGD)	<i>E. coli</i> Sample Analyzed By & Date
10M	4/29/2024	15:05	DK	6.3	75.3	7.31	9.58	109	5.54	-	-	DK 4/30
10M	5/29/2024	14:30	DK	248.1	81	7.22	8.6	84.4	17.6	-	-	DK 5/30
10M	6/27/2024	14:20	DK	9.8	84.8	8.55	8.67	127.6	null	-	-	DR 6/28
10M	7/17/2024	10:25	DK	3.1	83.5	7.24	6.86	104.5	5.62	-	-	DK 7/18
10M	8/8/2024	10:15	DK	12.1	83.4	7.44	6.36	109.5	4.87	-	-	MS 8/9
10M	8/13/2024	10:50	DK	4.1	83.3	7.81	6.4	112.4	5.21	-	-	DK 8/14
10M	8/21/2024	9:50	DK	14.8	77.4	7.74	5.46	117.4	3.69	-	-	DK 8/22
10M	8/26/2024	11:30	DR	46.4	84.7	7.86	6.69	129.3	4.63	-	-	DR 8/27
10M	9/5/2024	9:25	DK	7.5	72.8	7.18	5.6	131.3	6.34	-	-	DK 9/6
10M	9/23/2024	14:10	DK	2	81.9	8.37	6.97	101.6	2.71	-	-	DK 9/24
10M	10/17/2024	12:50	DK	4.1	63.1	8.2	9.68	124	5.1	-	-	DK 10/18
1M	4/29/2024	13:55	DK	228.2	69	7.19	7.2	99.1	3.53	-	-	DK 4/30
1M	5/29/2024	13:55	DK	42	77	7.27	6.81	75.3	7.02	-	-	DK 5/30
1M	6/27/2024	11:55	DK	218.7	72.9	7.42	6.25	140.5	null	-	-	DR 6/28
1M	7/17/2024	11:35	DK	248.1	77.4	7.22	5.8	108.5	2.97	-	-	DK 7/18
1M	8/8/2024	9:25	DK	307.6	72.5	7.21	5.96	162	1.84	-	-	MS 8/9
1M	8/13/2024	14:00	DK	1732.9	71.9	7.32	7.43	171.6	1.13	-	-	DK 8/14
1M	8/21/2024	10:50	DK	>2419.6	67	7.48	7	178.3	1.66	-	-	DK 8/22
1M	8/26/2024	12:25	DR	410.6	71.4	6.74	5.63	218.5	1.01	-	-	DR 8/27
1M	9/5/2024	10:25	DK	344.8	67.4	7.55	6.47	185.4	0.74	-	-	DK 9/6
1M	9/23/2024	11:40	DK	517.2	68.9	7.46	6.43	150.6	1.23	-	-	DK 9/24
1M	10/17/2024	13:50	DK	165.8	53	7.41	8.62	149.3	2.78	-	-	DK 10/18
9M	4/29/2024	13:40	DK	218.7	66.7	7.32	9.46	144.9	3.8	-	-	DK 4/30
9M	5/29/2024	13:40	DK	547.5	70.6	7.47	9.29	140.1	3.97	-	-	DK 5/30
9M	6/27/2024	11:45	DK	2419.6	79.3	7.54	7.45	70.6	null	-	-	DR 6/28
9M	7/17/2024	11:50	DK	365.4	73.9	6.69	8.26	160.3	1.82	-	-	DK 7/18
9M	8/8/2024	9:10	DK	166.4	73.9	7.48	7.87	136.5	0.73	-	-	MS 8/9
9M	8/13/2024	14:15	DK	118.7	76.5	7.85	8.34	null	null	-	-	DK 8/14
9M	8/21/2024	11:05	DK	95.9	68.2	7.61	8.94	139	0.6	-	-	DK 8/22
9M	8/26/2024	12:55	DR	83.6	73.9	7.33	7.09	109.1	1.17	-	-	DR 8/27
9M	9/5/2024	10:35	DK	133.3	68.5	7.77	8.33	180.7	0.72	-	-	DK 9/6
9M	9/23/2024	11:05	DK	214.3	71	7.79	8.27	131.8	1.15	-	-	DK 9/24
9M	10/17/2024	14:05	DK	204.6	53.5	7.98	10.94	140.7	0.92	-	-	DK 10/18
MMLT-1A	4/29/2024	14:10	DK	193.5	69.7	7.76	9.83	125	3.99	-	-	DK 4/30
MMLT-1A	5/29/2024	14:05	DK	248.1	73.7	7.53	8.89	108.1	7.51	-	-	DK 5/30
MMLT-1A	6/27/2024	12:10	DK	2419.6	75.7	7.66	7.67	106.2	null	-	-	DR 6/28
MMLT-1A	7/17/2024	11:15	DK	178.9	77.5	7.71	8.33	140.3	3.01	-	-	DK 7/18
MMLT-1A	8/8/2024	9:40	DK	435.2	75.9	7.42	7.17	137	2.06	-	-	MS 8/9
MMLT-1A	8/13/2024	13:45	DK	47.3	81.3	8.02	9	138.5	1.71	-	-	DK 8/14
MMLT-1A	8/21/2024	10:35	DK	121.1	72	7.8	7.93	140.4	13	-	-	DK 8/22
MMLT-1A	8/26/2024	12:10	DR	83.3	78.8	6.73	7.25	114.3	2.31	-	-	DR 8/27
MMLT-1A	9/5/2024	10:10	DK	61.3	70.4	7.68	7.33	146	1.47	-	-	DK 9/6
MMLT-1A	9/23/2024	14:55	DK	160.7	79.8	8.44	10.13	137	2.32	-	-	DK 9/24
MMLT-1A	10/17/2024	13:35	DK	111.2	57	8.19	11.7	135.6	2.42	-	-	DK 10/18
MMLT-1C	4/29/2024	14:45	DK	58.3	67.4	7.84	9.32	128.1	5.01	-	-	DK 4/30
MMLT-1C	5/29/2024	14:45	DK	131.4	72.7	7.71	8.82	103	9.56	-	-	DK 5/30
MMLT-1C	6/27/2024	14:35	DK	178.9	77	8.18	8.37	121.4	null	-	-	DR 6/28
MMLT-1C	7/17/2024	10:50	DK	39.9	75.8	7.81	7.95	114.9	6.45	-	-	DK 7/18
MMLT-1C	8/8/2024	10:35	DK	60.5	75.9	7.75	7.48	141.2	4.25	-	-	MS 8/9
MMLT-1C	8/13/2024	11:10	DK	64.4	73.4	7.78	8.62	138.6	4.07	-	-	DK 8/14
MMLT-1C	8/21/2024	10:10	DK	70	69.5	8.07	8.73	117.6	2.4	-	-	DK 8/22
MMLT-1C	8/26/2024	11:05	DR	46.4	73.5	8.04	8.37	169	3.99	-	-	DR 8/27
MMLT-1C	9/5/2024	9:45	DK	62.4	70.2	8	8.11	152.4	1.28	-	-	DK 9/6
MMLT-1C	9/23/2024	14:30	DK	298.7	72.2	7.84	7.81	137.5	3.79	-	-	DK 9/24
MMLT-1C	10/17/2024	13:05	DK	214.3	54.3	8.33	11.18	148.5	3.58	-	-	DK 10/18

**Moore's Mill Creek Watershed
Total Suspended Solids Sampling Results**

Site Number	Sample Date	Sample Time	Sample Collected By & In-situ Parameters Analyzed By	Total Suspended Solids (mg/L)	Temperature (F)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Turbidity (NTU)	Total Suspended Solids Sample Analyzed By & Date
C-1	3/21/2025	14:00	Sampler: DK	Not Detected	56.3	7.39	12.7	126.4	2.59	KB (ERA) 3/25
C-1	12/18/2024	10:15	Sampler: DK	Not Detected	53.4	7.63	11.5	129.9	1.78	KB (ERA) 12/19
C-1	9/23/2024	11:25	Sampler: DK	Not Detected	68.2	7.72	8.28	145.3	3.93	ALH (ERA) 9/25
C-1	6/4/2024	14:55	Sampler: DK	Not Detected	67.3	7.28	8.42	134.3	3.95	ALH (ERA) 6/6
C-MM-a	3/21/2025	14:05	Sampler: DK	5.53	60.7	7.12	10.65	83.7	7.47	KB (ERA) 3/25
C-MM-a	12/18/2024	10:25	Sampler: DK	3.37	52.8	7.04	8.92	90.8	6.18	KB (ERA) 12/19
C-MM-a	9/23/2024	11:40	Sampler: DK	Not Detected	68.9	7.46	6.43	150.6	1.23	KB 9/26 (ERA)
C-MM-a	6/4/2024	14:45	Sampler: DK	Not Detected	74.1	6.91	5.94	98.8	2.81	ALH (ERA) 6/6
C-MM-b	3/21/2025	14:25	Sampler: DK	Not Detected	59.4	7.44	11.4	98.6	4.72	KB (ERA) 3/25
C-MM-b	12/18/2024	10:45	Sampler: DK	Not Detected	53	7.39	11	106.1	4.71	KB (ERA) 12/19
C-MM-b	9/23/2024	15:05	Sampler: DK	Not Detected	71.8	7.65	8.32	133	3.18	ALH (ERA) 9/25
C-MM-b	6/4/2024	15:15	Sampler: DK	Not Detected	70.9	7.29	7.69	106.7	4.37	ALH (ERA) 6/6
NW-1-b	3/21/2025	11:25	Sampler: DK	Not Detected	54	7.37	11.7	133.9	2.72	KB (ERA) 3/25
NW-1-b	12/18/2024	9:50	Sampler: DK	Not Detected	53.7	7.6	11.49	133.1	2.18	KB (ERA) 12/19
NW-1-b	9/23/2024	10:55	Sampler: DK	Not Detected	69.9	7.77	8.1	120.7	1.15	KB (ERA) 9/26
NW-1-b	6/4/2024	13:55	Sampler: DK	Not Detected	71.1	7.61	9.01	134.7	3.06	ALH (ERA) 6/6
NW-1-c	3/21/2025	11:40	Sampler: DK	Not Detected	52.7	7.28	11.55	138.2	2.34	KB (ERA) 3/25
NW-1-c	12/18/2024	10:00	Sampler: DK	Not Detected	53.2	7.65	11.21	137.8	2.03	KB (ERA) 12/19
NW-1-c	9/23/2024	11:05	Sampler: DK	Not Detected	71	7.79	8.27	131.8	1.15	KB (ERA) 9/26
NW-1-c	6/4/2024	14:10	Sampler: DK	Not Detected	69.7	7.35	8.56	141.2	2.59	ALH (ERA) 6/6
NW-1-d	3/21/2025	11:10	Sampler: DK	Not Detected	55.9	7.13	10.8	191.9	1.47	KB (ERA) 3/25
NW-1-d	12/18/2024	9:40	Sampler: DK	Not Detected	56	7.38	9.23	180.5	1.12	KB (ERA) 12/19
NW-1-d	9/23/2024	10:40	Sampler: DK	Not Detected	69.7	7.53	7.58	149.4	1.02	ALH (ERA) 9/25
NW-1-d	6/4/2024	13:40	Sampler: DK	Not Detected	67.1	7.12	7.72	175.8	2.64	ALH (ERA) 6/6
SW-MM-b	3/21/2025	14:45	Sampler: DK	Not Detected	59.3	7.27	11.25	121.6	3.72	KB (ERA) 3/25
SW-MM-b	12/18/2024	11:00	Sampler: DK	Not Detected	53.6	7.26	10.42	129.4	3.72	KB (ERA) 12/19
SW-MM-b	9/23/2024	14:45	Sampler: DK	Not Detected	74.6	7.28	5.92	143.1	3.98	KB (ERA) 9/26
SW-MM-b	6/4/2024	15:30	Sampler: DK	Not Detected	72.5	7.27	8.02	127.6	4.11	ALH (ERA) 6/6
SW-MM-c	3/21/2025	15:00	Sampler: DK	Not Detected	61	7.84	10.68	111	3.48	KB (ERA) 3/25
SW-MM-c	12/18/2024	11:15	Sampler: DK	Not Detected	53.4	7.74	12.16	124.9	3.4	KB (ERA) 12/19
SW-MM-c	9/23/2024	14:30	Sampler: DK	Not Detected	72.2	7.84	7.81	137.5	3.79	ALH (ERA) 9/25
SW-MM-c	6/4/2024	15:50	Sampler: DK	Not Detected	-	7.9	8.75	120.9	3.72	ALH (ERA) 6/6

2.6.2 Moore's Mill Creek Geomorphic Survey Results

The cross-sections at each monitoring site in the Moore's Mill Creek watershed are shown in the following charts. Each cross-section chart compares this year's survey to the initial survey in 2018. Erosion occurred where the 2025 cross-section line (red) is below or outside of the 2018 cross-section line (black). Deposition occurred where the 2025 line is above or inside of the 2018 cross-section line.

SW-MM-c This site was stable during the reporting period and has changed very little since 2018.

SW-MM-b This site continued the trend of erosion on the left bank of the upstream cross-section, as well as channel deepening. The downstream cross-section has experienced some channel widening since 2018.

C-MM-b This site was stable during the reporting period. Slight channel widening has occurred since 2018.

C-MM-a This site was stable during the reporting period. A depositional bar has accumulated on the upstream left bank since 2018.

C-1 This site was stable during the reporting period.

NW-1-c

Site NW-1-c continues to experience substantial deposition in the upstream cross-section, and extreme erosion in the downstream cross-section. In the upstream cross-section since 2018, the channel thalweg has filled with over 2 feet of sediment, and the bench area adjacent to the channel has experienced 2 feet of deposition over a 40 ft. wide area. The channel has also eroded about 5 feet into the left bank. The downstream cross-section has eroded more than 20 feet into the left bank – nearly doubling the channel width since 2018.

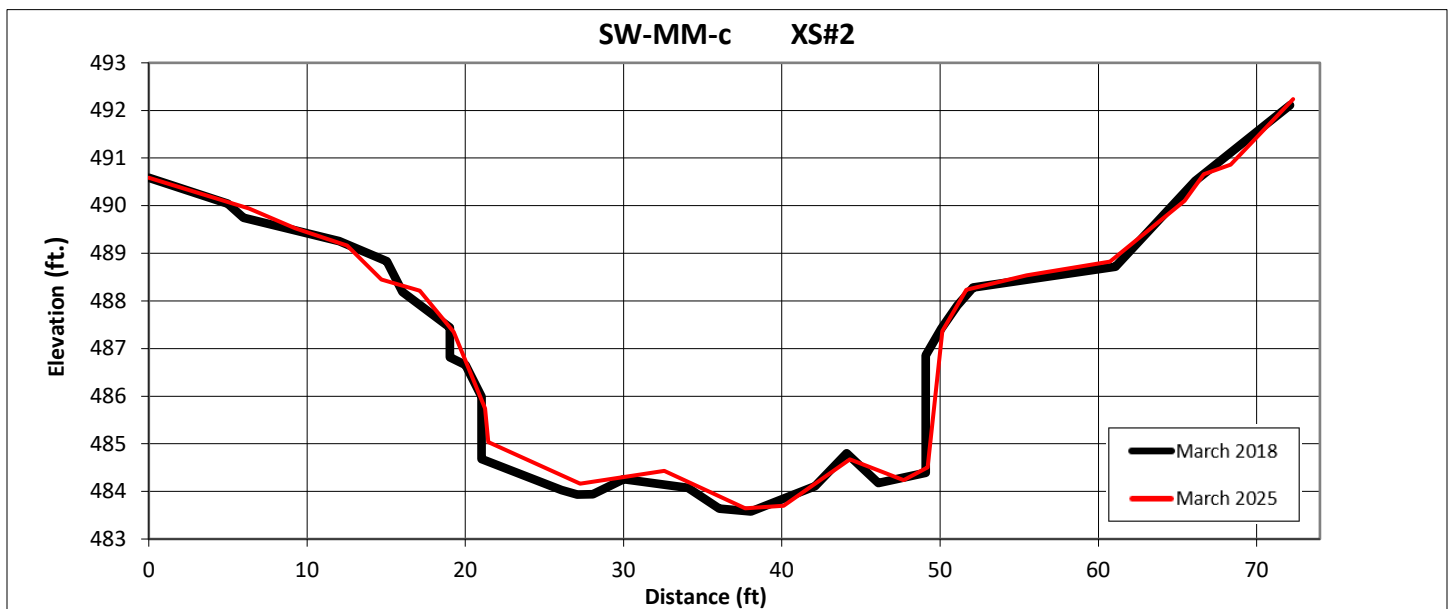
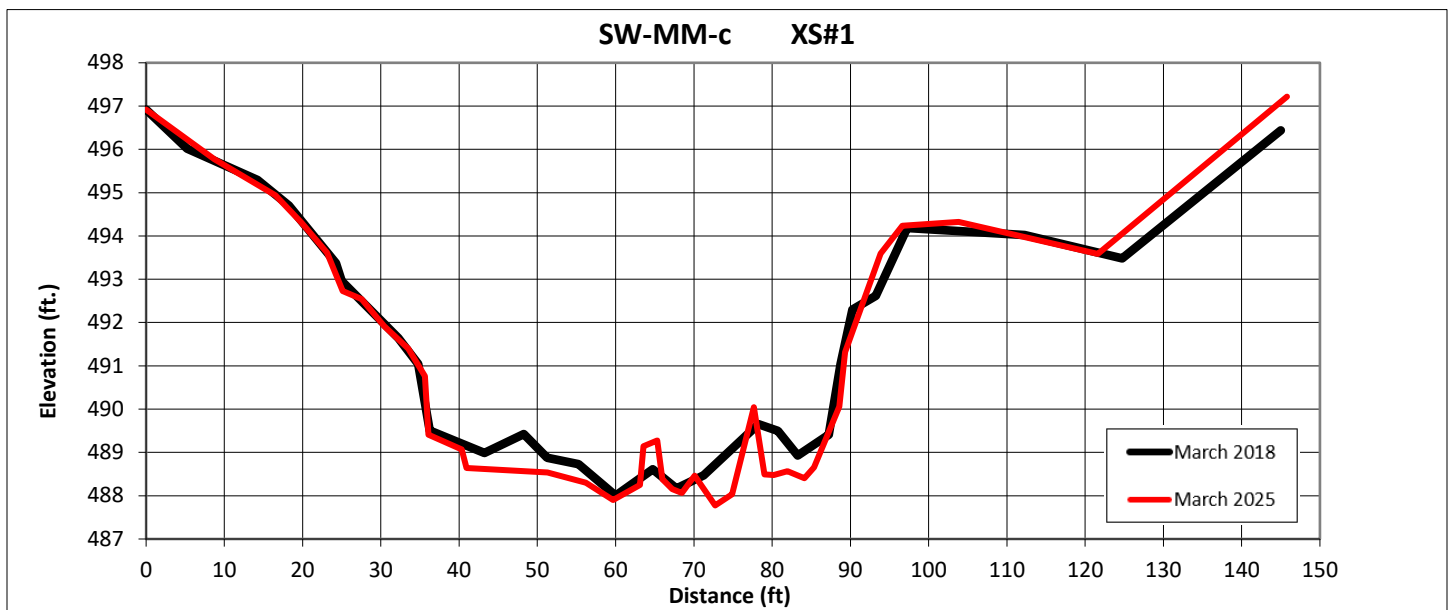
NW-1-b

Site NW-1-b has experienced 1-2 feet of erosion in the right bank in the downstream cross-section during the reporting period. The downstream bank eroded and a control point was lost. Subsequent surveys will be compared to the 2025 data. The upstream cross-section has remained stable since 2018.

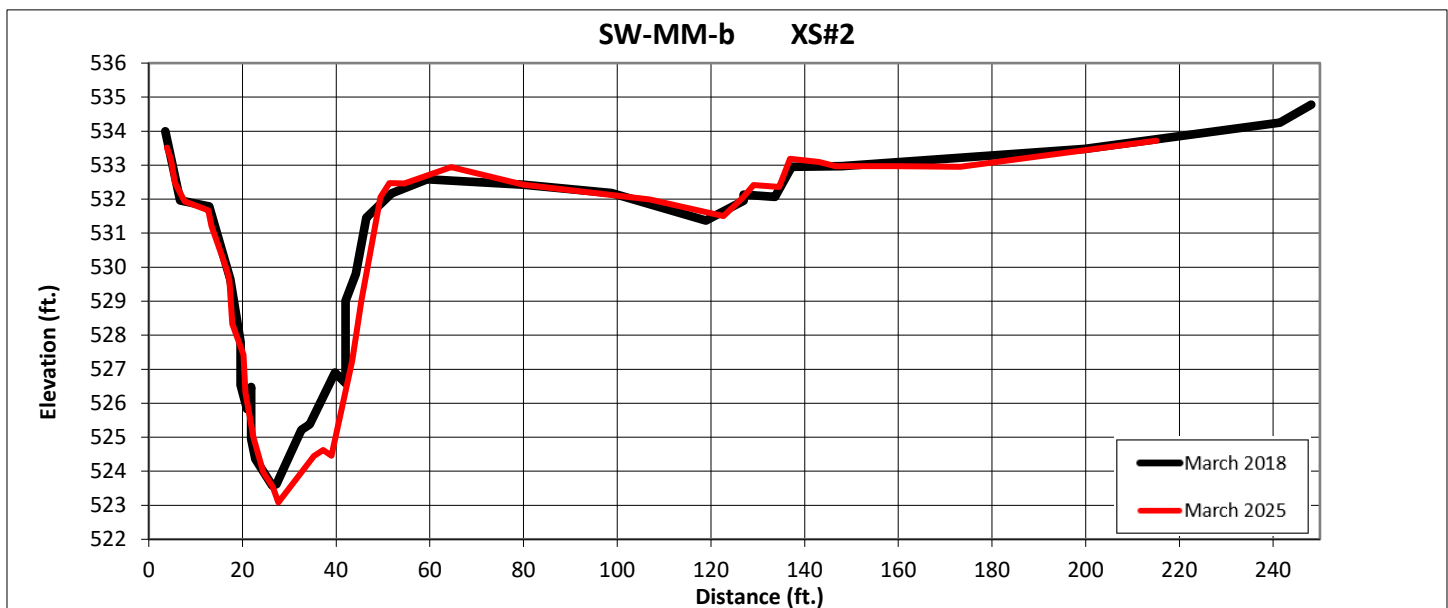
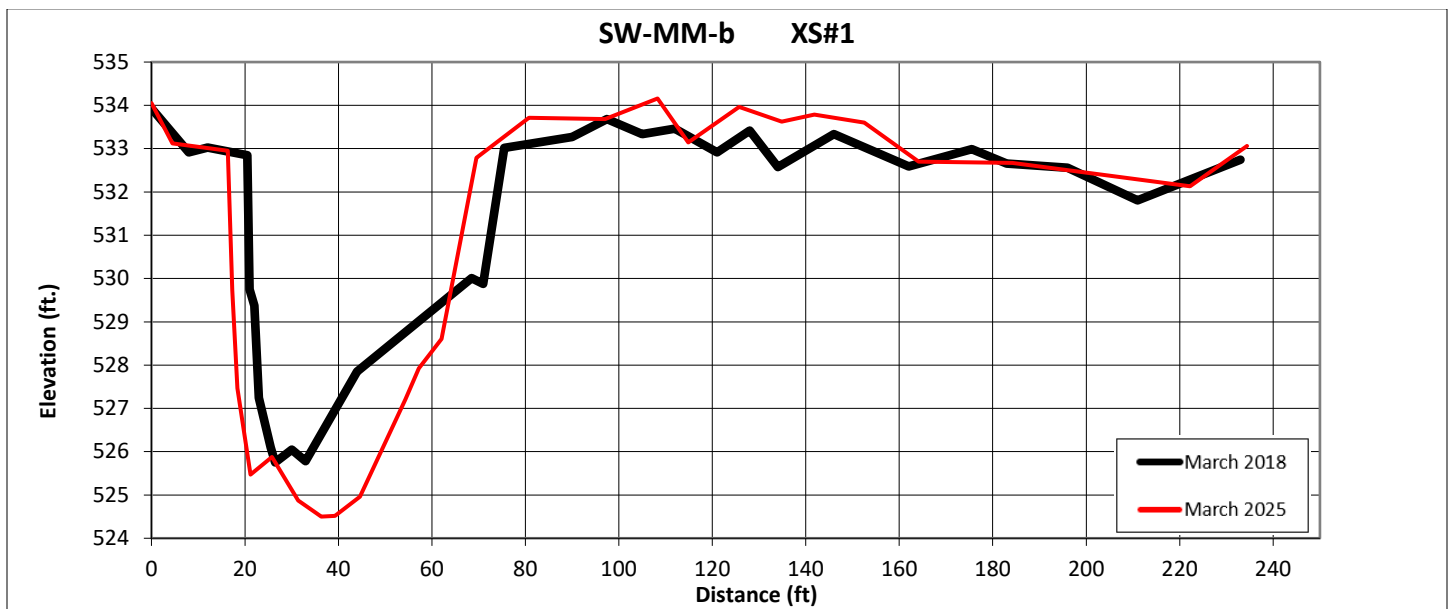
NW-1-d

This site has experienced gradual erosion of the right bank in both cross-sections since 2018. The upstream cross-section has deposited about 0.5 feet of gravel in the bottom of the channel. The downstream cross-section is widening into the right bank.

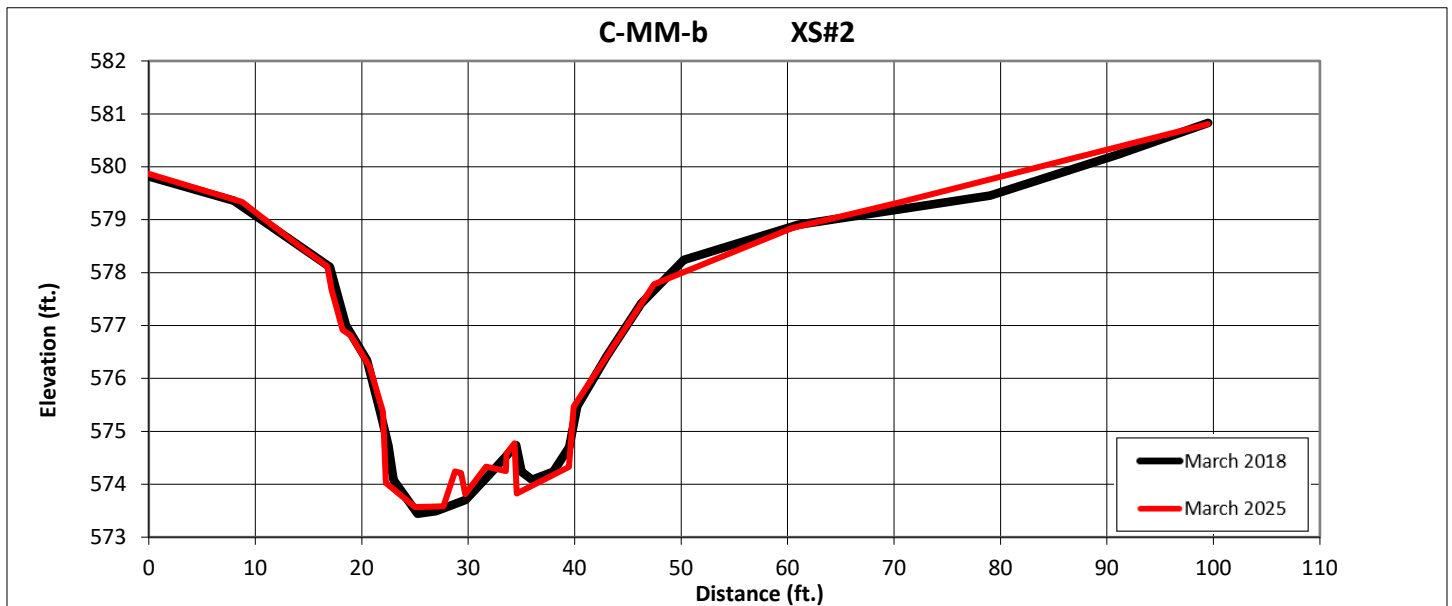
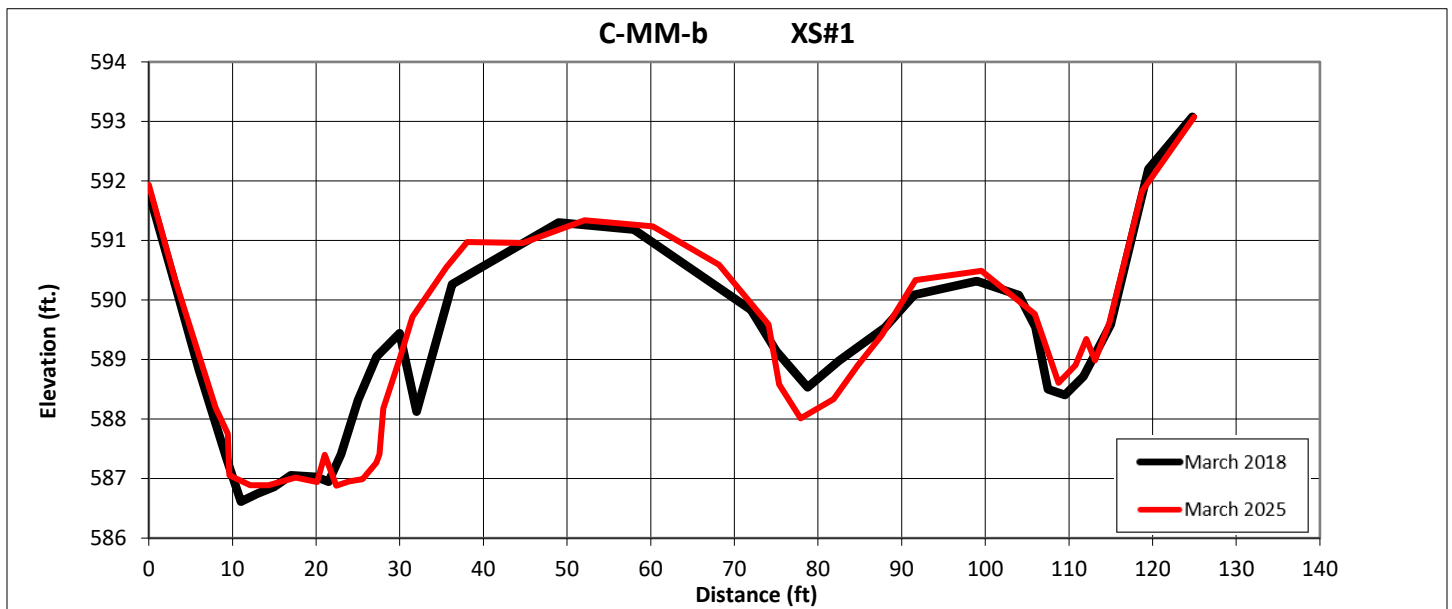
Site	Geomorphic Parameter	Cross-section #1	Cross-section #2	Units
SW-MM-c	Bankfull Area	113	121	ft. ²
	Bankfull Width	53	35	ft.
	Bankfull Depth	2.1	3.5	ft.
	Maximum Bankfull Depth	2.99	4.59	ft.
	Low Bank Height	6.46	6.94	ft.
	Width of the Flood-prone Area	140	220	ft.
	Width to Depth Ratio	24.7	9.9	-
	Bank Height Ratio	2.2	1.5	-
	Entrenchment Ratio	2.6	6.4	-



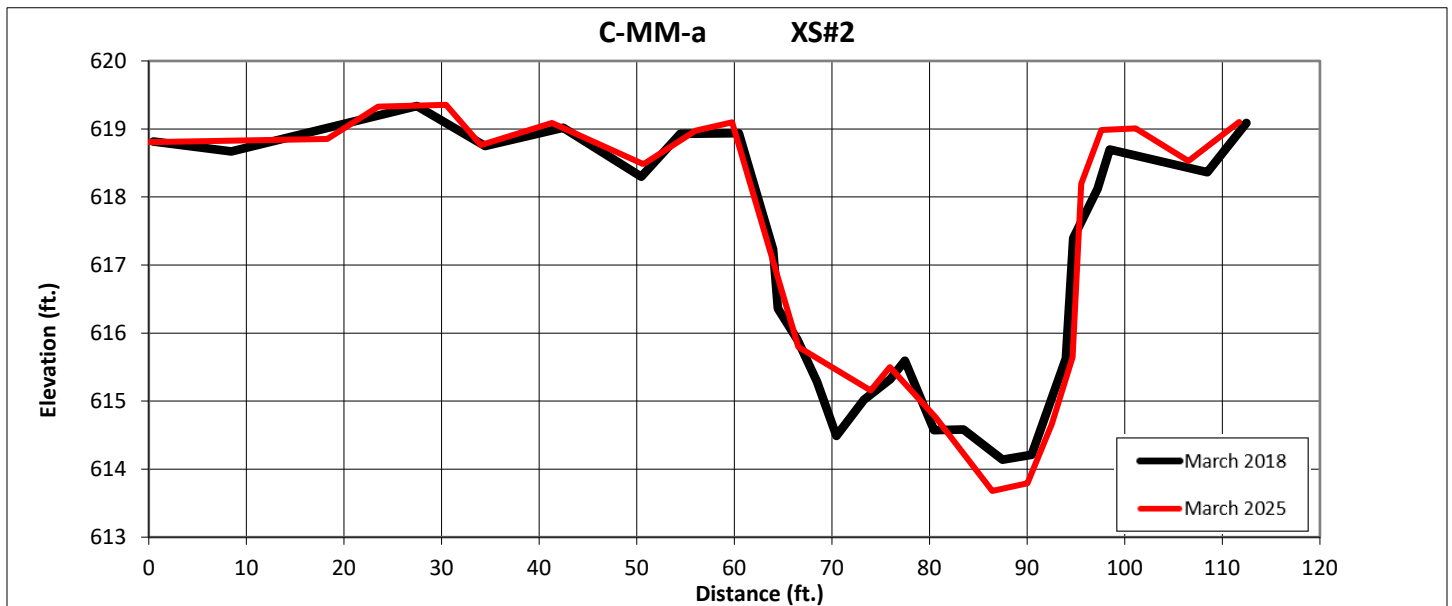
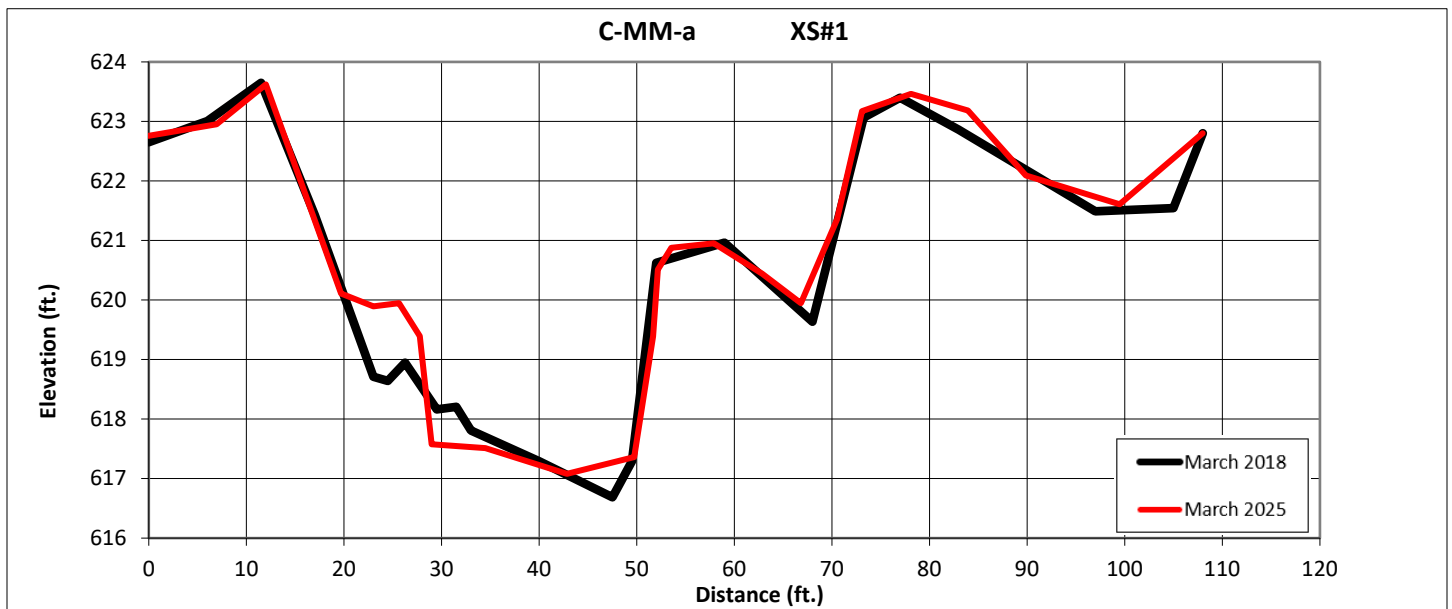
Site	Geomorphic Parameter	Cross-section #1	Cross-section #2	Units
SW-MM-b	Bankfull Area	354	195	ft. ²
	Bankfull Width	52	37	ft.
	Bankfull Depth	6.8	5.3	ft.
	Maximum Bankfull Depth	8.5	9.0	ft.
	Low Bank Height	9.21	9.86	ft.
	Width of the Flood-prone Area	450	425	ft.
	Width to Depth Ratio	7.7	6.9	-
	Bank Height Ratio	1.1	1.1	-
	Entrenchment Ratio	8.6	11.6	-



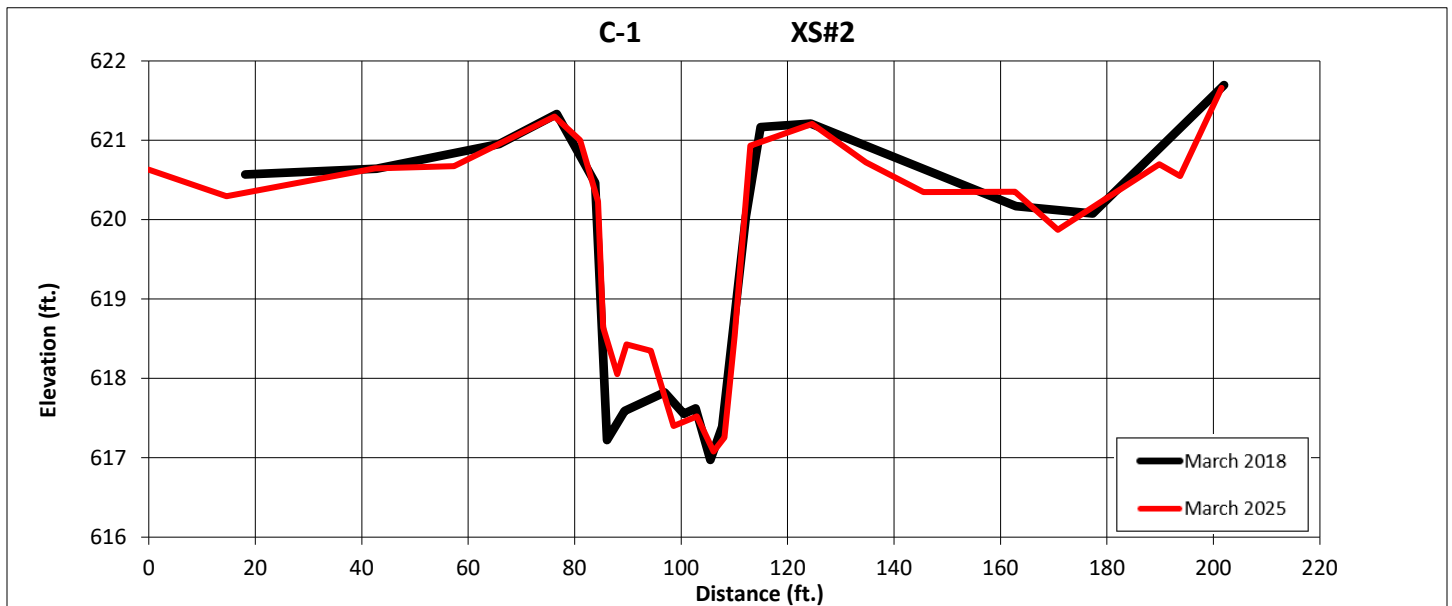
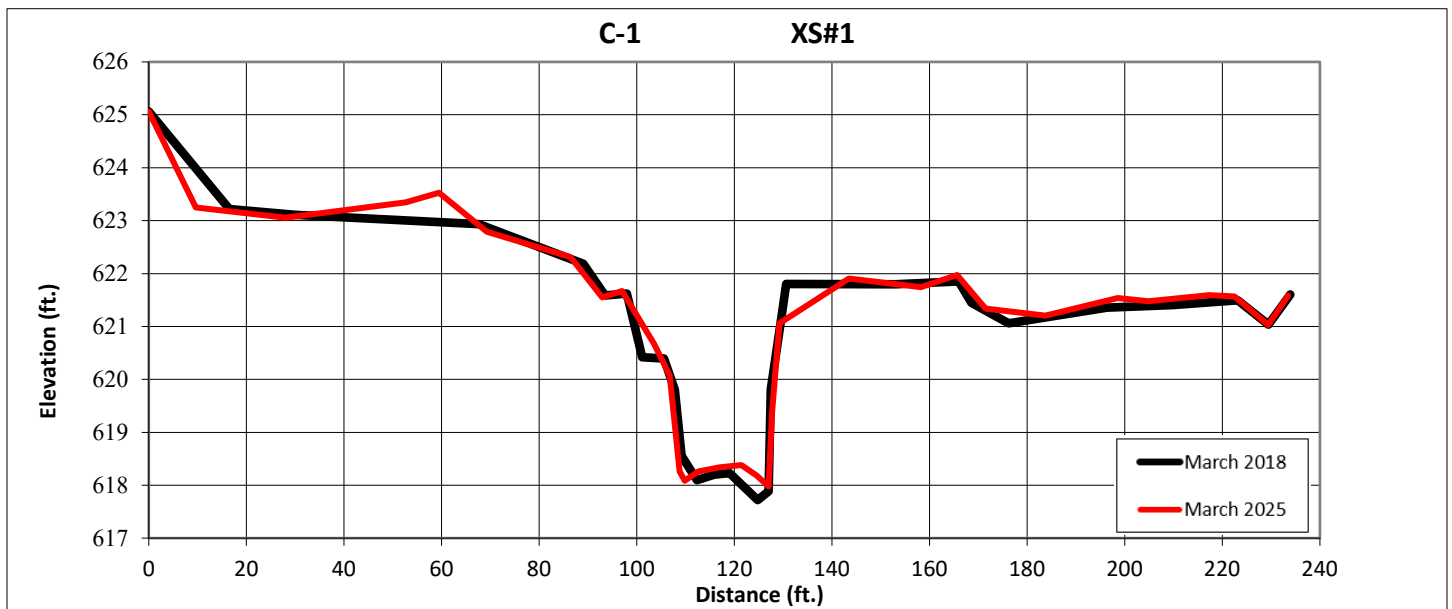
Site	Geomorphic Parameter	Cross-section #1	Cross-section #2	Units
C-MM-b	Bankfull Area	95	96	ft. ²
	Bankfull Width	35	31	ft.
	Bankfull Depth	2.7	3.1	ft.
	Maximum Bankfull Depth	4.1	4.5	ft.
	Low Bank Height	4.45	4.55	ft.
	Width of the Flood-prone Area	135	240	ft.
	Width to Depth Ratio	12.8	9.8	-
	Bank Height Ratio	1.1	1.0	-
	Entrenchment Ratio	3.9	7.8	-



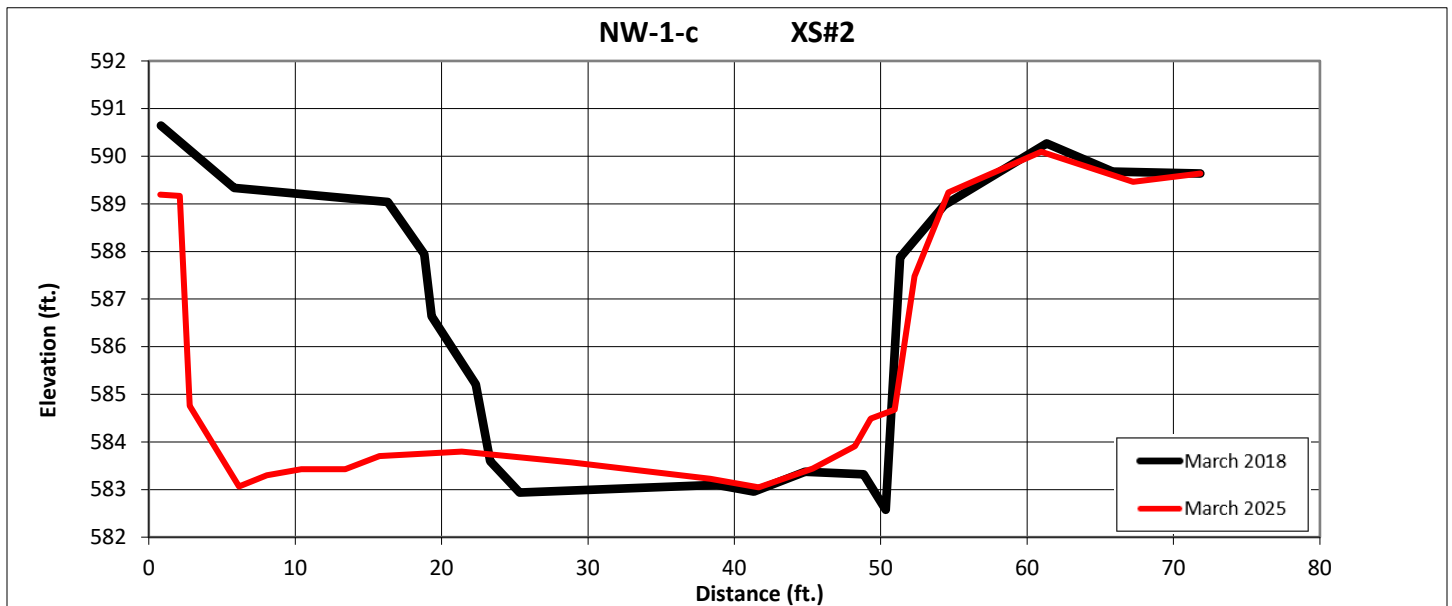
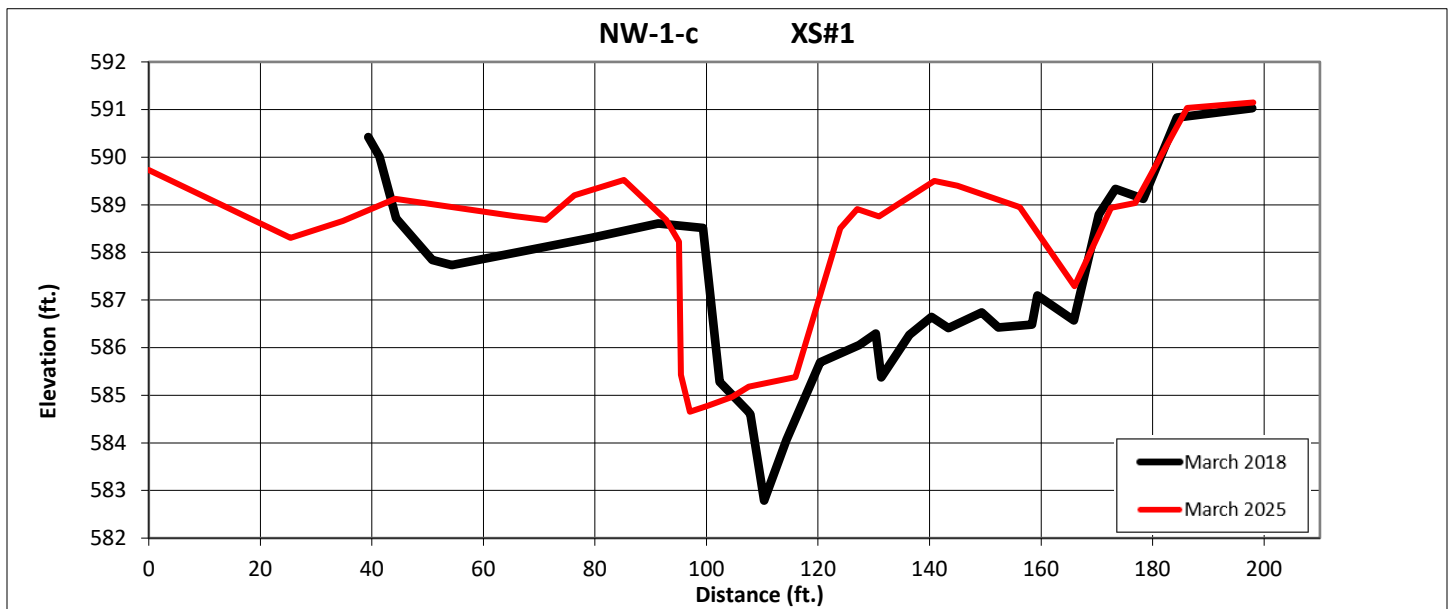
Site	Geomorphic Parameter	Cross-section #1	Cross-section #2	Units
C-MM-a	Bankfull Area	84	117	ft. ²
	Bankfull Width	28	38	ft.
	Bankfull Depth	3.0	3.1	ft.
	Maximum Bankfull Depth	3.8	5.3	ft.
	Low Bank Height	6.38	5.31	ft.
	Width of the Flood-prone Area	365	320	ft.
	Width to Depth Ratio	9.2	12.2	-
	Bank Height Ratio	1.7	1.0	-
	Entrenchment Ratio	13.1	8.5	-



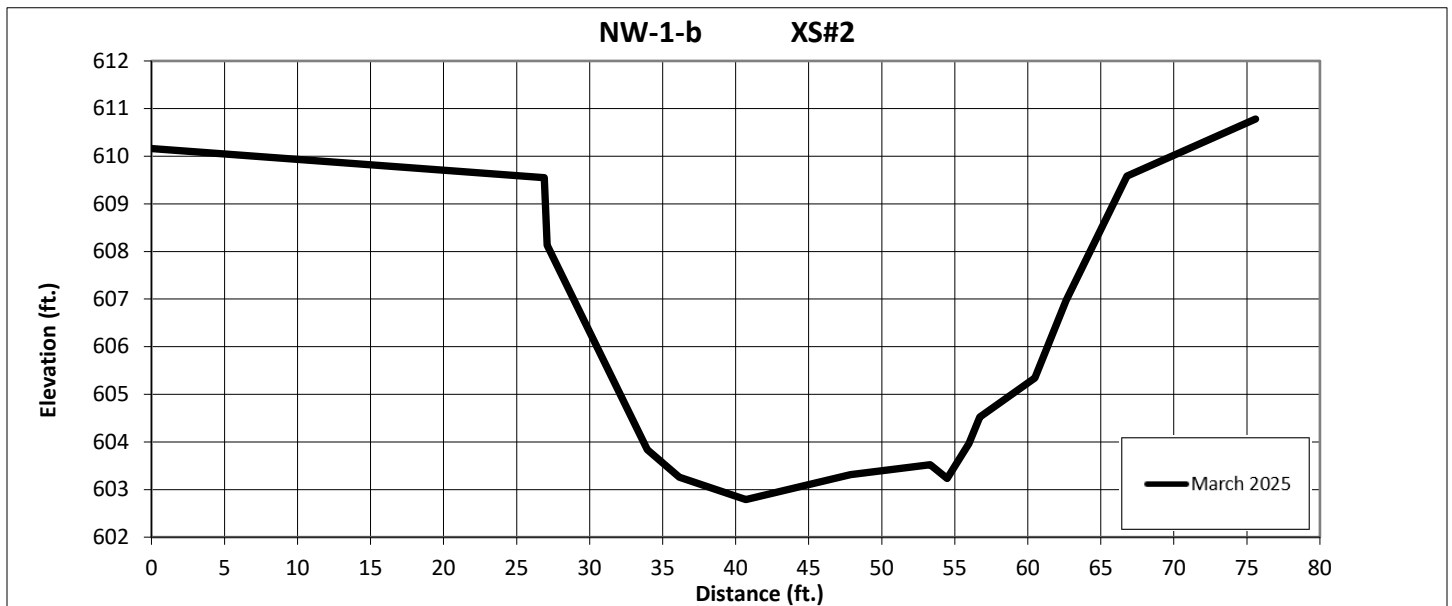
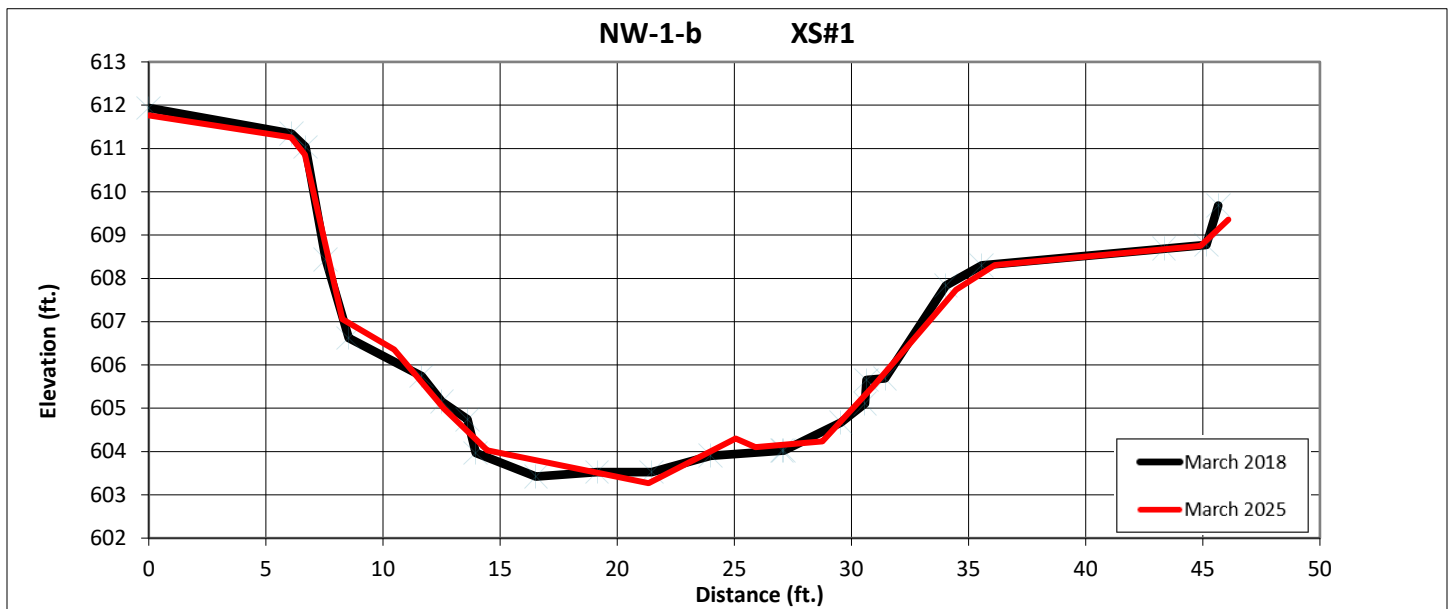
Site	Geomorphic Parameter	Cross-section #1	Cross-section #2	Units
C-1	Bankfull Area	64	82	ft. ²
	Bankfull Width	32	37	ft.
	Bankfull Depth	2.0	2.2	ft.
	Maximum Bankfull Depth	3.1	3.9	ft.
	Low Bank Height	3.93	4.22	ft.
	Width of the Flood-prone Area	180	230	ft.
	Width to Depth Ratio	16.3	16.5	-
	Bank Height Ratio	1.3	1.1	-
	Entrenchment Ratio	5.6	6.3	-



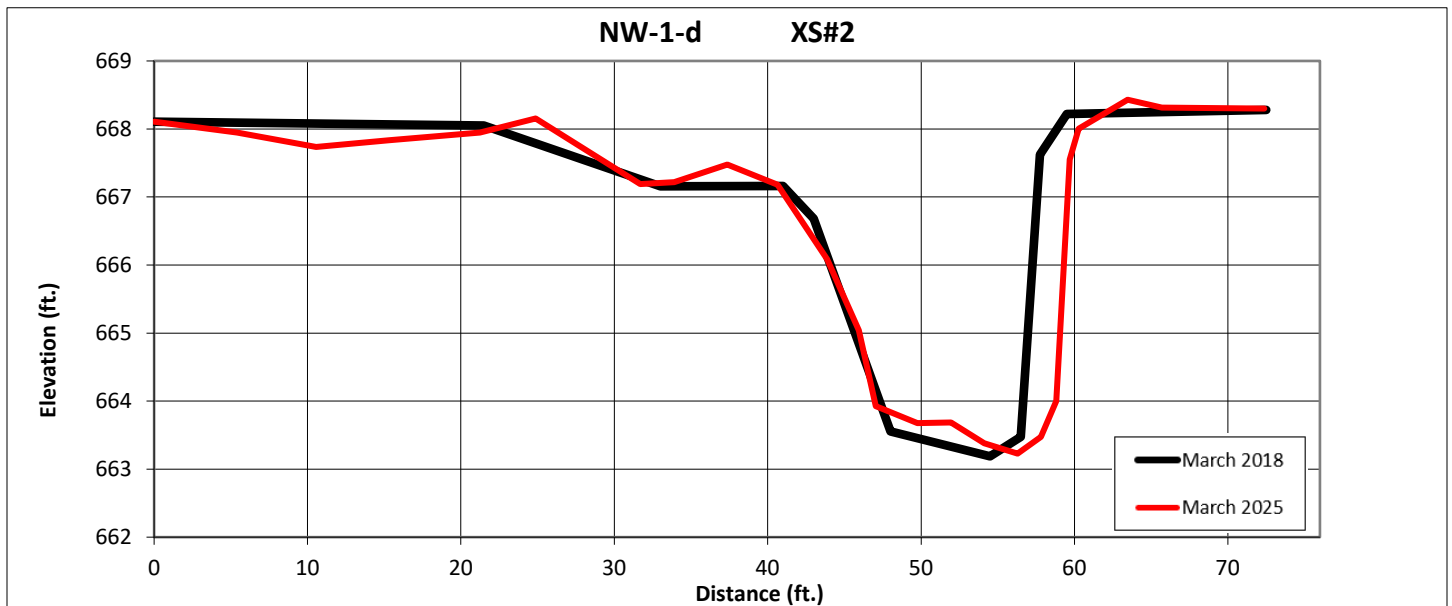
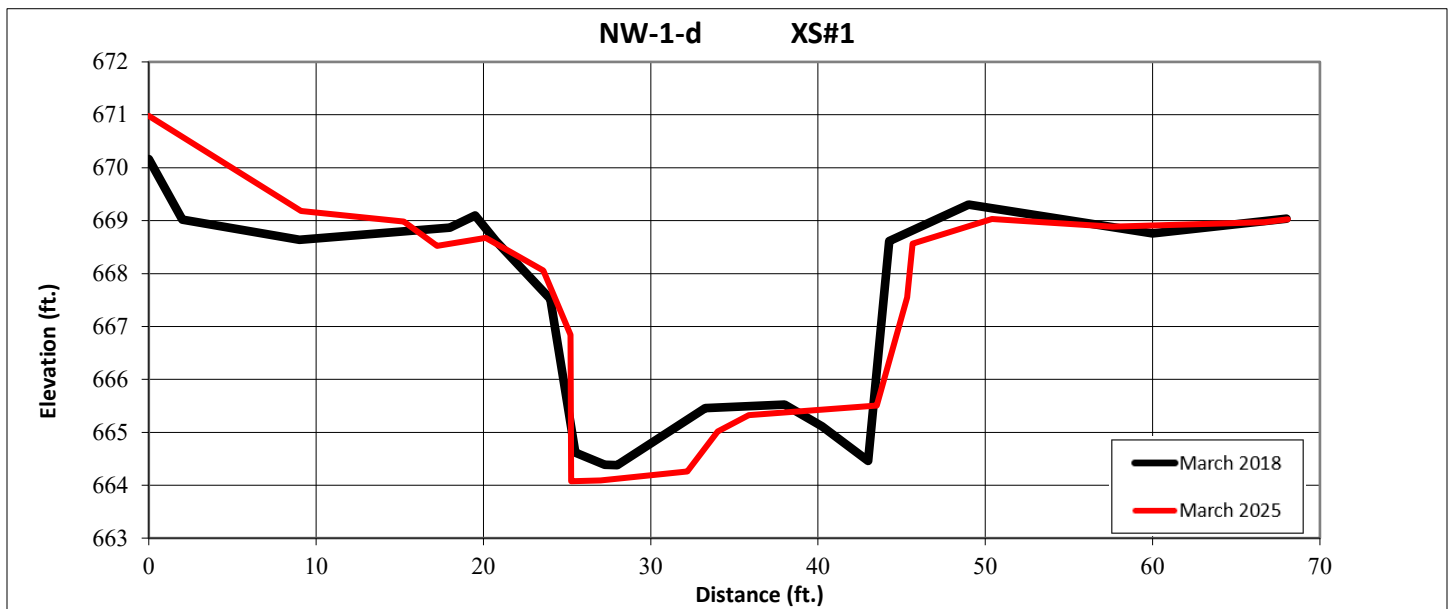
Site	Geomorphic Parameter	Cross-section #1	Cross-section #2	Units
NW-1-c	Bankfull Area	97	278	ft. ²
	Bankfull Width	31	50	ft.
	Bankfull Depth	3.1	5.5	ft.
	Maximum Bankfull Depth	3.9	6.1	ft.
	Low Bank Height	4.85	6.12	ft.
	Width of the Flood-prone Area	425	525	ft.
	Width to Depth Ratio	10.0	9.1	-
	Bank Height Ratio	1.3	1.0	-
	Entrenchment Ratio	13.6	10.5	-



Site	Geomorphic Parameter	Cross-section #1	Cross-section #2	Units
NW-1-b	Bankfull Area	92	183	ft. ²
	Bankfull Width	29	40	ft.
	Bankfull Depth	3.1	4.6	ft.
	Maximum Bankfull Depth	5.0	6.8	ft.
	Low Bank Height	5.04	6.76	ft.
	Width of the Flood-prone Area	190	215	ft.
	Width to Depth Ratio	9.4	8.7	-
	Bank Height Ratio	1.0	1.0	-
	Entrenchment Ratio	6.5	5.4	-



Site	Geomorphic Parameter	Cross-section #1	Cross-section #2	Units
NW-1-d	Bankfull Area	77	54	ft. ²
	Bankfull Width	22	19	ft.
	Bankfull Depth	3.5	2.8	ft.
	Maximum Bankfull Depth	4.5	4.0	ft.
	Low Bank Height	4.96	4.25	ft.
	Width of the Flood-prone Area	140	100	ft.
	Width to Depth Ratio	6.3	6.7	-
	Bank Height Ratio	1.1	1.1	-
	Entrenchment Ratio	6.3	5.2	-



3.0 Water Quality at Short-term Monitoring Sites and Outfall Screening

3.1 Purpose

In 2016, the City updated the Stormwater Quality Monitoring Plan to reflect changes in the ADEM Phase II NPDES General Permit ALR040003. Water quality monitoring at short-term sites was not included in the City's Water Quality Monitoring Plan and is not required under the Phase II NPDES General Permit ALR040003. Currently, the City conducts monitoring at various sites within the MS4 jurisdiction if there are suspected illicit discharges or other water quality concerns in the area. The table below shows the monitoring data from these short-term monitoring sites. The location of each sample site is included within the site name (e.g. SAUG326173854965 is within the Saugahatchee watershed and located at 32.6173 N, 85.4965 S).

According to the ADEM Phase II NPDES General Permit ALR040003, the permittee shall implement an ongoing program to detect and eliminate illicit discharges to the MS4 to the maximum extent practicable. The permit requires a dry weather screening program to detect and address non-stormwater discharges to the MS4. The table below also includes results of sampling of outfalls during dry weather screening.

3.2 Monitoring Data

Short-term Monitoring Sites and Outfall Screening Water Quality Results		
Site Number	Sample Date	<i>E. coli</i> (MPN or cfu/100mL)
MOOR326180854557	6/10/2024	172.2
MOOR326146854549	6/10/2024	517.2
4M	9/3/2024	107.6
T232	2/26/2025	40.2
T234	2/26/2025	105.0
T184	2/26/2025	40.2
M223	2/26/2025	74.4
M196	3/4/2025	9.6
T170	3/4/2025	7.3

4.0 Lake Ogletree Source Water Monitoring Program

4.1 Purpose

Lake Ogletree, located southeast of Auburn, is the City of Auburn's primary drinking water source. At full pool its surface area is approximately 300 acres with a capacity of approximately 1.6 billion gallons of water. Chewacla Creek is the primary stream that feeds Lake Ogletree, which has a 33 square mile watershed. While composed of mostly forest and agricultural lands, the Lake Ogletree watershed also includes industrial, commercial/retail, and residential land-uses which are all likely to increase as the population of Lee County increases. Although a recently updated Source Water Assessment Program determined Lake Ogletree to be at low to moderate risk from stormwater-driven pollutants, it is imperative that water quality monitoring be performed to identify potential threats to water quality and to protect the health of Chewacla Creek and the surrounding watershed. Therefore, the Water Works Board of the City of Auburn (AWWB) is committed to

performing monitoring and analysis of a wide range of physical, chemical, and mineral water quality parameters both in Lake Ogletree and its contributing watershed.

4.2 Methods

AWWB conducts water quality sampling and analysis at 13 locations throughout the Lake Ogletree Watershed. Water quality assessment includes sampling at locations along the main stem of Chewacla Creek (“C-Sites”), its smaller tributaries (“T-Sites”), and Lake Ogletree (“L-Sites”). Parameters monitored once every two months at these locations include *E. coli*, orthophosphate, total phosphorus, nitrate-nitrite, Kjeldahl-N, pH, temperature, turbidity, specific conductance, and dissolved oxygen. A QA/QC field blank for orthophosphate, total phosphorus, nitrate-nitrite, and kjeldahl-N is collected at a single randomly selected site during each sampling round. Bi-weekly monitoring is also conducted at select sites for temperature, pH, specific conductance, dissolved oxygen, and turbidity.

4.3 Monitoring Stations and Data

T11 – Station T11 is located on lower Robinson Creek at Moore’s Mill Road (CR 146). Latitude 32, 33, 48.221 N; Longitude 85, 23, 23.423 W

T12N – Station T12N is located upper Robinson Creek, just upstream of Highway 51 and downstream from an Opelika sanitary sewer lift station. Latitude 32, 37, 1.72 N; Longitude 85, 22, 9.316 W

T19 – Station T19 is located on an unnamed tributary upstream of Emerald Lake. Latitude 32, 35, 36.364 N; Longitude 85, 20, 37.00 W

T32 – Station T32 is located near the mouth of Nash Creek just before the confluence with Chewacla Creek. Latitude 32, 33, 18.484 N; Longitude 85, 25, 30.655 W

T34 – Station T34 is located on Chewacla Creek, upstream of Station C8. Latitude 32, 34, 32.672 N; Longitude 85, 21, 49.692 W

C1 – Station C1 is located at the forebay of Lake Ogletree, immediately downstream of the Society Hill Road bridge crossing. Latitude 32, 33, 20.161 N; Longitude 85, 25, 36.026 W

C2 – Station C2 is located at the bridge crossing of CR 027 with Chewacla Creek. Latitude 32, 33, 21.387 N; Longitude 85, 24, 46.384 W

C5 – Station C5 is located at the bridge crossing of Lee Road. 112 with Chewacla Creek. Latitude 32, 33, 6.291 N; Longitude 85, 23, 41.151 W

C7 – Station C7 is located at the bridge crossing of Highway 51 (Marvyn Parkway) with Chewacla Creek. Latitude 32, 33, 41.868 N; Longitude 85, 22, 20.559 W

C8 – Station C8 is located upstream of the bridge crossing of CR 146 (Moore’s Mill Road) with Chewacla Creek. Latitude 32, 34, 5.715 N; Longitude 85, 21, 42.033 W

L1 – Station L1 is located in Lake Ogletree, immediately northeast of the Lake Ogletree spillway. Latitude 32, 32, 50.846 N; Longitude 85, 26, 52.83 W

L2 – Station L2 is located in Lake Ogletree near the water intake pump house. Latitude 32, 33, 5.626 N; Longitude 85, 26, 45.038 W

L5 – Station L5 is located along the northwest finger of Lake Ogletree, near the confluence with the East Lake/Green Chapel tributary. Latitude 32, 33, 37.961 N; Longitude 85, 25, 38.369 W

Lake Ogletree Watershed Sampling Results											
Site Number	Sample Date	Water Temp. (F)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Turbidity (NTU)	Nitrate + Nitrite (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Orthophosphate (mg/L)	Total Phosphorus (mg/L)	<i>E. coli</i> (MPN)
C1	2/25/2025	13:15	53.9	7.28	-	70.5	7.4	0.148	0	0	0
C1	12/30/2024	12:35	49.4	7.38	12.92	63.6	15.3	0	0	0	0
C1	10/30/2024	12:15	63.9	7.37	9.41	75	4.64	-	-	-	-
C1	8/30/2024	10:15	77.8	7.18	6.84	87.5	6.01	0	0	0	0
C1	6/28/2024	12:40	86.1	7.79	7.33	69.5	4.05	0	0	0	0.063
C1	4/26/2024	13:25	71.7	7.21	8.81	55.8	7.68	0	0	0	0.237
C2	2/25/2025	10:00	48.4	7.11	-	74.9	6.83	0.144	0	0	0
C2	12/30/2024	12:05	48.9	7.14	12.65	63	13.2	0	0.967	0	0.151
C2	10/30/2024	11:35	59.3	7.07	7.52	88.6	3.53	0	0	0	0.141
C2	8/30/2024	9:40	71.6	6.75	5.62	104.3	5.53	0.18	0	0	0
C2	6/28/2024	11:55	73.1	6.9	6.8	72.1	26.8	0.306	0	0	0
C2	4/26/2024	12:35	63.4	6.94	8.6	66.4	8.43	0.226	0	0	0.179
C5	2/25/2025	10:25	48.7	7.18	-	76.7	7.22	0.206	0	0	0
C5	12/30/2024	11:15	47.6	6.96	12.5	65.4	13.3	0	0	0	0
C5	10/30/2024	9:20	58.3	7.26	8.42	88.8	5.53	0	0.75	0	0.15
C5	8/30/2024	9:00	72.7	7.28	5.4	105.6	8.37	0.899	0	0.643	0
C5	6/28/2024	9:55	72.7	7.06	7.06	74	27.5	0.305	0	0	0.2
C5	4/26/2024	10:30	61.4	7.15	9.3	66.1	9.73	0.213	0	0	0.098
C7	2/25/2025	10:45	48.1	7.08	-	69.9	9.26	0.187	0	0	0
C7	12/30/2024	10:30	47.4	6.84	11.8	65.6	11.2	0	0	0	0.136
C7	10/30/2024	9:35	58.6	7.03	6.75	75.3	4.76	0	0	0	0.116
C7	8/30/2024	7:25	76.2	-	3.67	113.2	9.38	0	0	0	0
C7	4/26/2024	10:50	61.6	6.94	8.07	63.7	10.57	0	0	0	0.221
C8	12/30/2024	10:45	48.5	6.93	12.33	72.8	9.38	0	1.02	0	0.078
C8	10/30/2024	9:50	60.2	7.1	7.57	83.1	3.21	0	0	0	0.178
C8	8/30/2024	7:42	76.9	-	4.91	138.7	4.48	0.148	0	0	0
C8	6/28/2024	10:10	74.3	7.23	6.71	78.5	9.15	0.257	0	0	0.102
C8	4/26/2024	11:05	63.7	7.13	8.66	67.8	7.65	0.149	0	0	0
L1	2/25/2025	9:00	50.6	7.91	-	64.9	10.41	0	0	0	0
L1	12/30/2024	9:30	48.9	6.82	12.84	63.6	4.88	0	0	0	0.111
L1	10/30/2024	8:30	65.1	7.87	9.24	62.4	14.9	0	0	0	0.118
L1	8/30/2024	8:20	81.7	8.76	7.47	66.1	3.08	0	0	0	0
L1	6/28/2024	9:15	83.5	9.15	8.44	68.2	4.21	0	0	0	0.093
L1	4/26/2024	9:55	72.2	8.15	9.27	50.5	8.46	0	0	0	0.078
L2	2/25/2025	9:25	50.2	7.91	-	65.1	8.04	0	0	0	0
L2	12/30/2024	10:50	49.3	7.11	11.87	63.9	6.21	0	0	0	0.077
L2	10/30/2024	8:45	65.2	7.5	8.44	62.9	9.64	0	0	0	0.298
L2	10/2/2024	9:35	73	8.53	9.94	63.2	10.41	-	-	-	-
L2	9/11/2024	10:30	75.6	7.49	5.85	67.4	4.68	-	-	-	-
L2	8/30/2024	8:35	82	8.35	6.97	67.3	4.7	0	0	0	0
L2	8/12/2024	11:30	85.6	8.68	7.17	66.2	1.56	-	-	-	-
L2	7/24/2024	14:40	83.9	8.39	7.25	67.9	3.32	-	-	-	-
L2	7/9/2024	13:40	88	8.97	8.04	66.4	3.17	-	-	-	-
L2	6/28/2024	9:30	83.3	9.02	8.19	68.2	2.09	0	0	0	0.073
L2	6/11/2024	13:50	83.4	9.01	9.46	62.2	2.71	-	-	-	-
L2	5/28/2024	14:25	81.8	8.63	9.17	55.6	-	-	-	-	-
L2	5/14/2024	10:45	71.4	7.48	8.72	55.6	3.03	-	-	-	-
L2	4/26/2024	10:05	71.1	7.99	9.13	50.9	10.63	0	0	0	0.077
L2	4/2/2024	13:50	63.2	7.06	9.5	47.5	16.3	-	-	-	-
L5	2/25/2025	12:35	52.6	7.35	-	73.2	6.39	0	0	0	0
L5	12/30/2024	12:20	45.9	7.33	13.16	72.3	4.13	0	0	0	0.097
L5	10/30/2024	11:50	61.6	7.22	8.3	78.7	1.5	0.124	0	0	0.189
L5	8/30/2024	10:00	77.6	7.42	7.15	95.7	5.21	0	0	0	0
L5	6/28/2024	12:20	77	6.95	6.56	77.4	4.89	0.218	0	0	0.107

Lake Ogletree Watershed Sampling Results (continued)											
Site Number	Sample Date	Water Temp. (F)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (uS/cm)	Turbidity (NTU)	Nitrate + Nitrite (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Orthophosphate (mg/L)	Total Phosphorus (mg/L)	<i>E. coli</i> (MPN)
L5	4/26/2024	13:05	67.3	7.28	9	69.6	6.57	0	0	0	0
T11	2/25/2025	12:10	52.2	7.21	-	101.7	4.56	0.106	1.35	0	0.101
T11	12/30/2024	11:50	49.7	7.2	12.7	69.7	16.9	0	0	0	0.154
T11	10/30/2024	11:10	59.4	7.19	8.44	89.3	2.07	0	0	0	0.245
T11	8/30/2024	9:15	70.4	7.44	8.22	82	2.64	0.157	0	0	0.07
T11	6/28/2024	11:35	70.7	7.24	7.36	105.5	119	0.278	0	0	0.109
T11	4/26/2024	12:20	61.2	7.15	9.4	64.8	4.83	0.247	0	0	0.078
T12N	2/25/2025	11:35	52.1	7.28	-	140.9	2.8	0.215	0	0	0
T12N	12/30/2024	11:10	51.5	7.22	11.77	139.7	6.37	0.204	0	0	0.174
T12N	10/30/2024	10:30	59.4	7.34	8.44	136.9	1.12	0	0	0	0.151
T12N	8/30/2024	8:10	73.2	6.88	4.3	159.1	1.45	0.208	0	0	0.132
T12N	6/28/2024	10:55	69.4	7.28	7.6	138.8	3.01	0.343	0	0	0.146
T12N	4/26/2024	11:35	60.5	7.1	9.44	135.1	3.09	0.353	0	0	0.237
T19	2/25/2025	11:10	51.3	7.19	-	103.6	11.03	0.101	0	0	0
T19	12/30/2024	11:30	49.2	7.2	12.55	106.4	11	0.157	0	0	0.149
T19	10/30/2024	10:40	60	6.65	3.83	91	2.61	0	0	0	0.186
T19	8/30/2024	8:45	73	5.94	3.65	91.8	8.24	0.113	0	0	0.285
T19	6/28/2024	11:15	71.9	7.07	6.64	106.2	22.7	0.3	0	0	0.137
T19	4/26/2024	11:55	65.2	6.94	7.75	83.2	10.26	0.171	0	0	0.165
T32	2/25/2025	13:25	52.5	7.51	-	66.5	7.05	0	0	0	0
T32	12/30/2024	13:45	50.2	7.49	12.67	64.2	15.3	0	0	0	0.113
T32	10/30/2024	12:25	60	7.67	9.36	76.1	3.74	0	0	0	0.168
T32	8/30/2024	10:25	71.4	7.62	7.96	84.4	-	0.467	0	0	0
T32	6/28/2024	12:50	83.7	7.59	7.26	72	3.43	0	0	0	0
T32	4/26/2024	13:40	69.9	7.33	9.08	55.6	8.99	0	0	0	0.127
T34	2/25/2025	12:00	51.2	7.1	-	78.9	12.61	0.117	0	0	0
T34	12/30/2024	10:55	48.9	6.93	12.12	71.7	9.49	0	0	0	0.163
T34	10/30/2024	10:05	60	7	6.74	71.1	6.66	0	0	0	0.209
T34	8/30/2024	7:57	75.7	6.31	2.66	74.1	10.38	0.194	0	0	0
T34	6/28/2024	10:30	75.8	7.19	6.43	79	6.99	0.214	0	0	0.289
T34	4/26/2024	11:20	64.1	7.02	8.43	67.3	9.73	0.139	0	0	0.335

5.0 WPCF Dissolved Oxygen Monitoring

5.1 Purpose

Staff have been collecting in-stream dissolved oxygen data upstream and downstream of both WPCF's effluent discharge points since August of 2006. This monitoring provides valuable data assuring that the effluent discharged from Auburn's WPCF is not having a negative impact on dissolved oxygen content of Parkerson Mill Creek during the critical summer months. Monitoring at the Northside WPCF was discontinued in 2013 due to closure of the plant, however data collection resumed in 2015. Monitoring is performed on a frequent basis using a YSI (Clark Cell) and/or Hach (LDO) dissolved oxygen probe at points both upstream and downstream of each effluent discharge location.

5.2 Methods

Dissolved oxygen measurements are taken with a YSI (Clark Cell) and/or HACH (Luminescent Dissolved Oxygen) probe.

- Dissolved Oxygen – The amount of oxygen in the water column from both atmospheric deposition and photosynthesis by aquatic plants and algae.

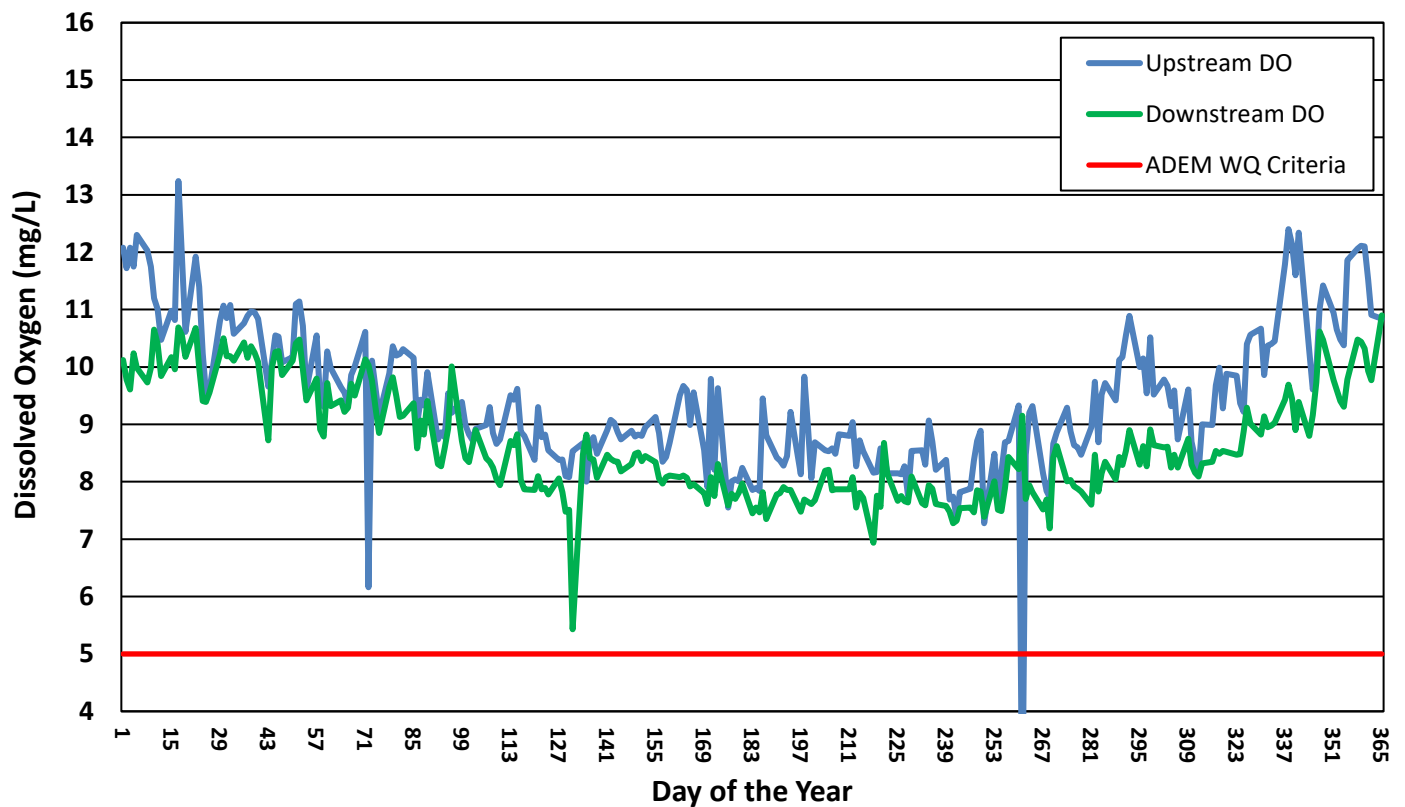
5.3 Monitoring Stations and Data

H.C. Morgan WPCF Upstream Latitude 32, 32, 9.890 N; Longitude 85, 30, 20.443 W

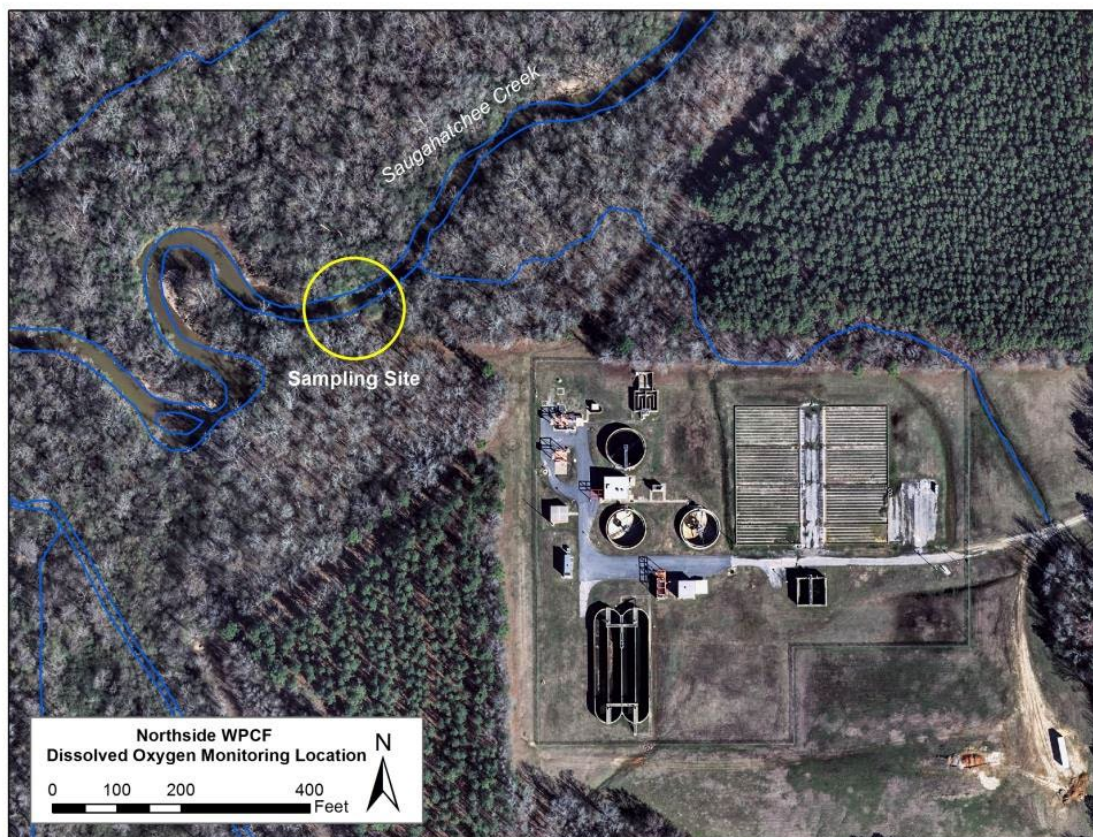
H.C. Morgan WPCF Downstream Latitude 32, 33, 9.077 N; Longitude 85, 30, 19.699 W



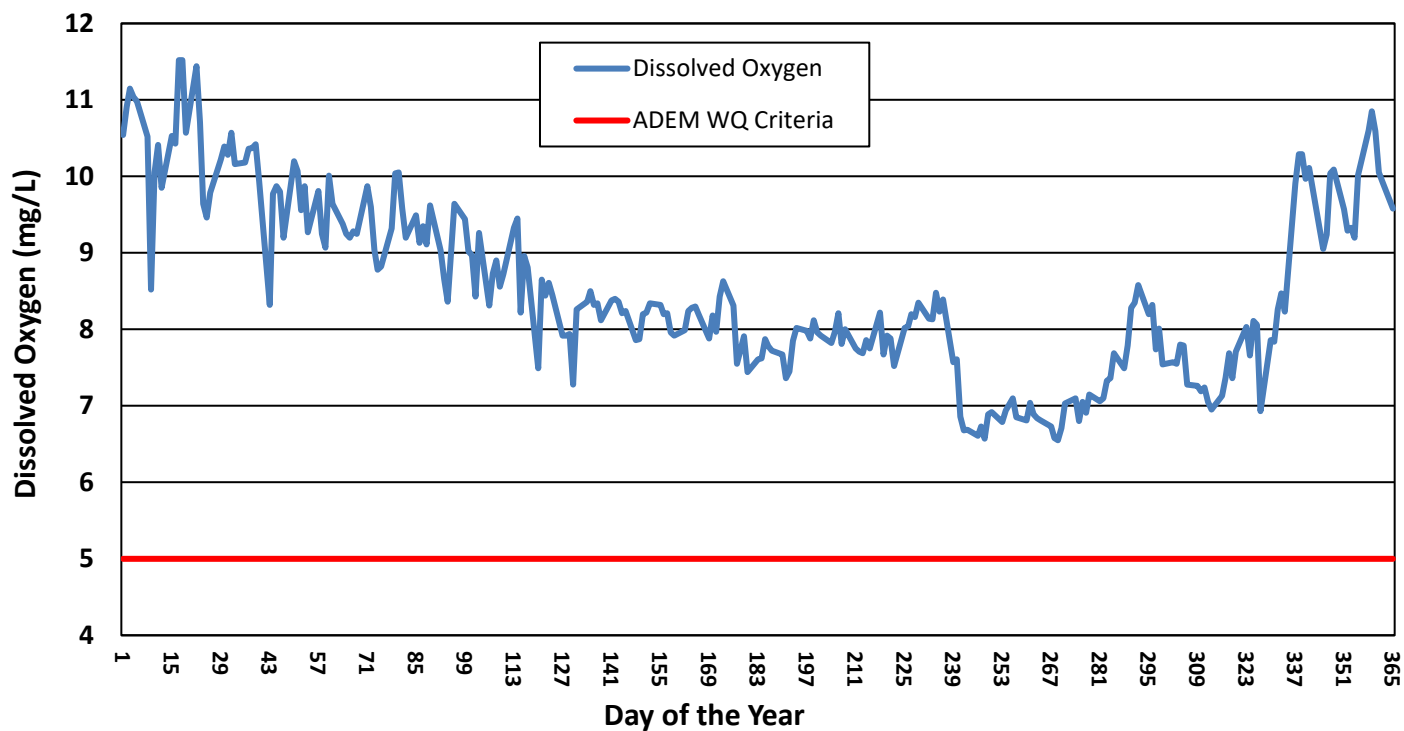
H.C. Morgan WPCF Dissolved Oxygen Data



Northside WPCF Latitude 32, 37, 41.32 N; Longitude 85, 32, 44.75 W

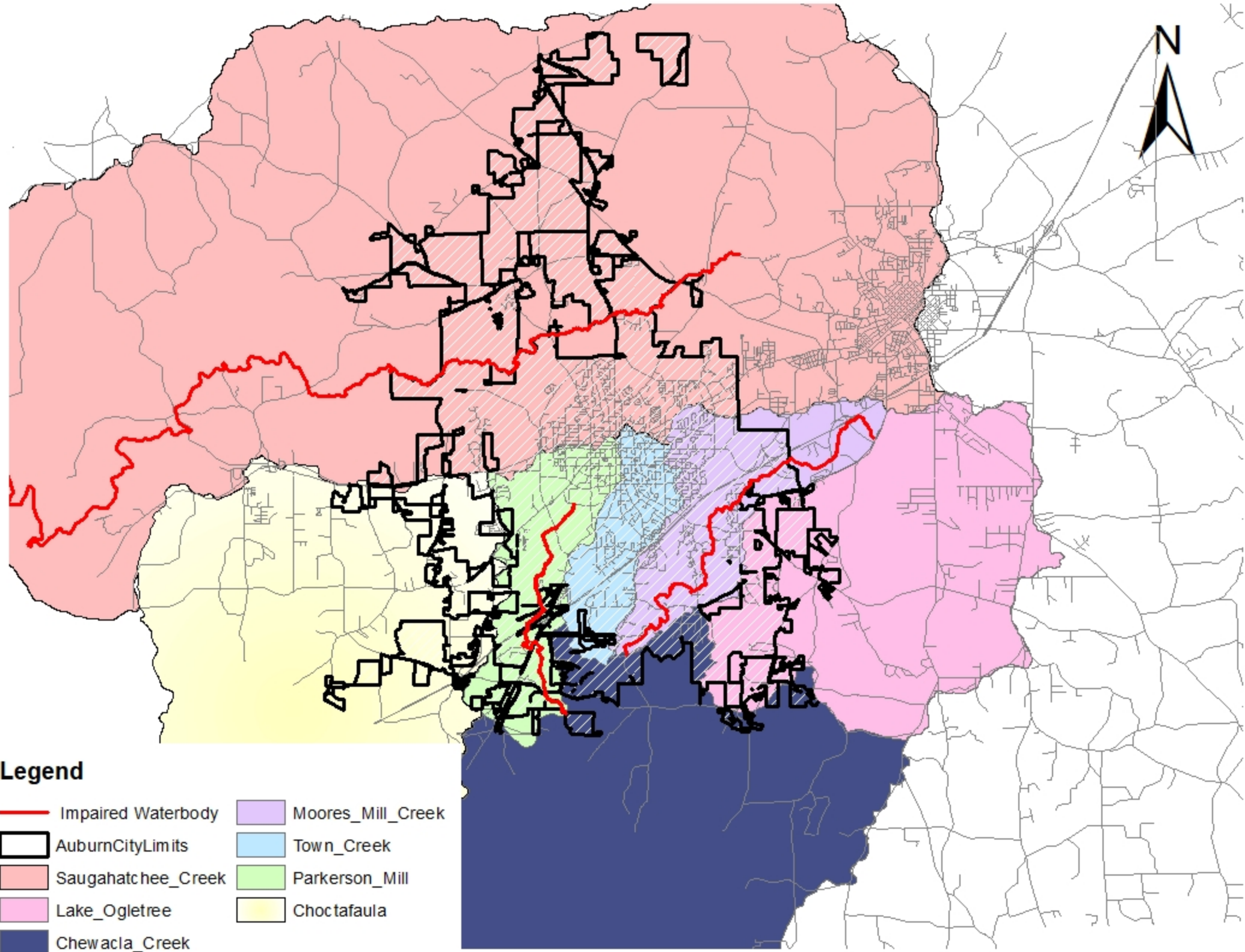


Northside WPCF Dissolved Oxygen Data



APPENDIX E

HYDROLOGY AND WATERSHEDS WITH APPROVED TMDLs MAP



APPENDIX F

MUNICIPAL FACILITIES

City Properties/Facilities	
Public Safety Training Facility	Lake Wilmore
Ambulance Properties	Lee County Humane Society
Auburn Public Library	Fire Station 6
Baptist Hill Cemetery	Lynn St. Properties
Bowden Park	Mall Parkway Parking Lot
Boy Scout Hut Property	Martin Luther King Park
Boykin Community Center	Memorial Cemetery
Town Creek Inclusive Playground	Moore's Mill @ Society Hill Property
Choctawhatchee Lift Station	Moore's Mill Park
City Hall	N Gay St. Parking Lot
City Meeting Room	N Ross @ Opelika Rd Property
Dean Road Rec Center	Northside WPCF
Dekalb St. Regional DP	Parking Deck
Doug Watson Municipal Complex	Pine Hill Cemetery
Duck Samford Park	Public Safety Training Facility
Dumas Drive Property	Public Works
E Glenn Municipal Parking Lot	Dinius Park
Environmental Services	S Donahue @ EUD Property
Felton Little Park	Sam Harris Park
Fire Station 2 & Fields	School Bus Depot
Fire Station 3	Soccer Complex
Fire Station 4	Softball Complex
Firing Range	Summertrees Properties
Fleet Services	Tacoma Dr Regional DP
Forestdale@ Moore's Mill Property	Tennis Center
Frank Brown Rec Center	Town Creek Cemetery
Graham McTeer Park	Town Creek Drive Trailhead
HC Morgan WPCF	Town Creek Park and Greenway
Hickory Dickory Park	Veterans Memorial Property
Human Resources	Westview Properties
Indian Pines Golf Course	White St Regional DP
Keisel Park	

APPENDIX G

OUTFALL SCREENINGS 2024-2025

InspectionId	Inspection Type	Date Inspected	Inspected By	Finish Date	Entity Type	Entity Uid	Entity Sid	Feature Type	Feature Uid	Feature Id
154941	SW Outfall Inspection	2025-02-06 01:23 AM	MCCURRY JR, RONALD G	2025-02-06 01:25 AM	OUTFALLS	M303	18062	OUTFALLS	M303	18062
154942	SW Outfall Inspection	2025-02-05 01:52 AM	ROGERS, DUSTIN M	2025-02-05 01:55 AM	OUTFALLS	M241	17265	OUTFALLS	M241	17265
154943	SW Outfall Inspection	2025-02-05 01:10 AM	ROGERS, DUSTIN M	2025-02-05 01:10 AM	OUTFALLS	M218	16876	OUTFALLS	M218	16876
154944	SW Outfall Inspection	2025-01-17 10:34 AM	KIMBROW, DUSTIN R	2025-01-17 10:34 AM	OUTFALLS	P19	2461	OUTFALLS	P19	2461
154945	SW Outfall Inspection	2025-02-06 12:28 PM	MCCURRY JR, RONALD G	2025-02-06 12:30 PM	OUTFALLS	M251	17275	OUTFALLS	M251	17275
154946	SW Outfall Inspection	2025-02-06 11:12 AM	ROGERS, DUSTIN M	2025-02-06 11:14 AM	OUTFALLS	M183	15684	OUTFALLS	M183	15684
154947	SW Outfall Inspection	2025-02-05 04:15 AM	MCCURRY JR, RONALD G	2025-02-05 04:18 AM	OUTFALLS	M262	17286	OUTFALLS	M262	17286
154948	SW Outfall Inspection	2024-12-04 10:17 AM	ROGERS, DUSTIN M	2024-12-04 10:19 AM	OUTFALLS	M193	16068	OUTFALLS	M193	16068
154950	SW Outfall Inspection	2025-01-17 10:05 AM	KIMBROW, DUSTIN R	2025-01-17 10:06 AM	OUTFALLS	T209	25268	OUTFALLS	T209	25268
154951	SW Outfall Inspection	2025-02-05 11:41 AM	ROGERS, DUSTIN M	2025-02-05 11:45 AM	OUTFALLS	M286	17690	OUTFALLS	M286	17690
154952	SW Outfall Inspection	2025-02-05 10:24 AM	ROGERS, DUSTIN M	2025-02-05 10:29 AM	OUTFALLS	M203	16078	OUTFALLS	M203	16078
154953	SW Outfall Inspection	2025-02-05 02:33 AM	MCCURRY JR, RONALD G	2025-02-05 02:35 AM	OUTFALLS	M272	17669	OUTFALLS	M272	17669
154954	SW Outfall Inspection	2025-02-10 11:27 AM	MCCURRY JR, RONALD G	2025-02-10 11:30 AM	OUTFALLS	M287	17680	OUTFALLS	M287	17680
154957	SW Outfall Inspection	2025-01-30 02:55 AM	KIMBROW, DUSTIN R	2025-01-30 02:56 AM	OUTFALLS	T231	25667	OUTFALLS	T231	25667
154958	SW Outfall Inspection	2025-02-06 03:44 AM	KIMBROW, DUSTIN R	2025-02-06 03:44 AM	OUTFALLS	T248	28066	OUTFALLS	T248	28066
154959	SW Outfall Inspection	2024-12-03 04:43 AM	MCCURRY JR, RONALD G	2024-12-03 04:45 AM	OUTFALLS	T320	50307	OUTFALLS	T320	50307
154960	SW Outfall Inspection	2024-12-04 03:56 AM	MCCURRY JR, RONALD G	2024-12-04 04:00 AM	OUTFALLS	CW54	50317	OUTFALLS	CW54	50317
154961	SW Outfall Inspection	2024-12-02 02:33 AM	MCCURRY JR, RONALD G	2024-12-02 02:35 AM	OUTFALLS	T304	28478	OUTFALLS	T304	28478
154962	SW Outfall Inspection	2025-02-04 02:16 AM	KIMBROW, DUSTIN R	2025-02-04 02:16 AM	OUTFALLS	T258	28469	OUTFALLS	T258	28469
154963	SW Outfall Inspection	2025-02-06 01:54 AM	ROGERS, DUSTIN M	2025-02-06 01:55 AM	OUTFALLS	M311	46143	OUTFALLS	M311	46143
154965	SW Outfall Inspection	2024-12-02 03:12 AM	MCCURRY JR, RONALD G	2024-12-02 03:15 AM	OUTFALLS	T274	28485	OUTFALLS	T274	28485
154966	SW Outfall Inspection	2025-01-16 10:06 AM	KIMBROW, DUSTIN R	2025-01-16 10:08 AM	OUTFALLS	T222	25281	OUTFALLS	T222	25281
154967	SW Outfall Inspection	2025-01-30 02:35 AM	KIMBROW, DUSTIN R	2025-01-30 02:36 AM	OUTFALLS	T257	28468	OUTFALLS	T257	28468
154968	SW Outfall Inspection	2025-02-05 01:33 AM	ROGERS, DUSTIN M	2025-02-05 01:36 AM	OUTFALLS	M204	16079	OUTFALLS	M204	16079
154969	SW Outfall Inspection	2025-02-06 12:05 PM	ROGERS, DUSTIN M	2025-02-06 12:06 PM	OUTFALLS	M273	17670	OUTFALLS	M273	17670
154970	SW Outfall Inspection	2025-01-30 03:12 AM	KIMBROW, DUSTIN R	2025-01-30 03:13 AM	OUTFALLS	T232	25668	OUTFALLS	T232	25668
154971	SW Outfall Inspection	2025-01-30 04:40 AM	MCCURRY JR, RONALD G	2025-01-30 04:45 AM	OUTFALLS	CW55	50318	OUTFALLS	CW55	50318
154972	SW Outfall Inspection	2025-02-04 01:58 AM	KIMBROW, DUSTIN R	2025-02-04 01:59 AM	OUTFALLS	T259	28470	OUTFALLS	T259	28470
154973	SW Outfall Inspection	2025-02-06 12:06 PM	ROGERS, DUSTIN M	2025-02-06 12:07 PM	OUTFALLS	M274	17671	OUTFALLS	M274	17671
154974	SW Outfall Inspection	2025-02-04 01:37 AM	KIMBROW, DUSTIN R	2025-02-04 01:38 AM	OUTFALLS	T236	25672	OUTFALLS	T236	25672
154975	SW Outfall Inspection	2025-01-30 04:47 AM	MCCURRY JR, RONALD G	2025-01-30 04:48 AM	OUTFALLS	CW56	50319	OUTFALLS	CW56	50319
154976	SW Outfall Inspection	2025-02-06 11:05 AM	ROGERS, DUSTIN M	2025-02-06 11:06 AM	OUTFALLS	M326	48227	OUTFALLS	M326	48227
154977	SW Outfall Inspection	2025-02-06 12:10 PM	ROGERS, DUSTIN M	2025-02-06 12:11 PM	OUTFALLS	M275	17672	OUTFALLS	M275	17672
154978	SW Outfall Inspection	2025-02-04 01:39 AM	KIMBROW, DUSTIN R	2025-02-04 01:39 AM	OUTFALLS	T237	25673	OUTFALLS	T237	25673
154979	SW Outfall Inspection	2025-02-07 12:42 PM	MCCURRY JR, RONALD G	2025-02-07 12:45 PM	OUTFALLS	P199	50320	OUTFALLS	P199	50320
154980	SW Outfall Inspection	2025-02-06 12:37 PM	MCCURRY JR, RONALD G	2025-02-06 12:40 PM	OUTFALLS	M255	17279	OUTFALLS	M255	17279
154982	SW Outfall Inspection	2025-02-03 03:23 AM	KIMBROW, DUSTIN R	2025-02-03 03:24 AM	OUTFALLS	T239	26866	OUTFALLS	T239	26866
154983	SW Outfall Inspection	2024-12-04 02:55 AM	MCCURRY JR, RONALD G	2024-12-04 02:58 AM	OUTFALLS	CW57	50321	OUTFALLS	CW57	50321
154984	SW Outfall Inspection	2025-02-05 03:58 AM	MCCURRY JR, RONALD G	2025-02-05 04:00 AM	OUTFALLS	M327	48630	OUTFALLS	M327	48630
154985	SW Outfall Inspection	2025-02-06 12:46 PM	ROGERS, DUSTIN M	2025-02-06 12:48 PM	OUTFALLS	M278	17675	OUTFALLS	M278	17675
154986	SW Outfall Inspection	2025-03-28 01:17 AM	KIMBROW, DUSTIN R	2025-03-28 01:18 AM	OUTFALLS	T241	26868	OUTFALLS	T241	26868
154987	SW Outfall Inspection	2024-12-04 02:58 AM	MCCURRY JR, RONALD G	2024-12-04 02:00 AM	OUTFALLS	CW58	50322	OUTFALLS	CW58	50322
154988	SW Outfall Inspection	2025-02-06 12:40 PM	MCCURRY JR, RONALD G	2025-02-06 12:42 PM	OUTFALLS	M328	48631	OUTFALLS	M328	48631
154989	SW Outfall Inspection	2025-02-06 11:52 AM	ROGERS, DUSTIN M	2025-02-06 11:54 AM	OUTFALLS	M279	17676	OUTFALLS	M279	17676
154991	SW Outfall Inspection	2024-12-04 03:10 AM	MCCURRY JR, RONALD G	2024-12-04 03:12 AM	OUTFALLS	CW59	50323	OUTFALLS	CW59	50323
154992	SW Outfall Inspection	2025-02-05 11:28 AM	MCCURRY JR, RONALD G	2025-02-05 11:30 AM	OUTFALLS	M235	16871	OUTFALLS	M235	16871
154993	SW Outfall Inspection	2025-02-10 10:42 AM	ROGERS, DUSTIN M	2025-02-10 10:45 AM	OUTFALLS	M282	17677	OUTFALLS	M282	17677
154994	SW Outfall Inspection	2025-02-03 02:56 AM	KIMBROW, DUSTIN R	2025-02-03 02:57 AM	OUTFALLS	T246	27667	OUTFALLS	T246	27667
154995	SW Outfall Inspection	2024-12-04 03:22 AM	MCCURRY JR, RONALD G	2024-12-04 03:23 AM	OUTFALLS	CW60	50324	OUTFALLS	CW60	50324
154996	SW Outfall Inspection	2025-02-05 11:33 AM	MCCURRY JR, RONALD G	2025-02-05 11:34 AM	OUTFALLS	M329	48632	OUTFALLS	M329	48632
154997	SW Outfall Inspection	2025-02-10 10:47 AM	ROGERS, DUSTIN M	2025-02-10 10:52 AM	OUTFALLS	M283	17678	OUTFALLS	M283	17678
154998	SW Outfall Inspection	2025-02-03 02:54 AM	KIMBROW, DUSTIN R	2025-02-03 02:55 AM	OUTFALLS	T245	27668	OUTFALLS	T245	27668
154999	SW Outfall Inspection	2025-02-05 11:34 AM	MCCURRY JR, RONALD G	2025-02-05 11:35 AM	OUTFALLS	M330	48633	OUTFALLS	M330	48633
155000	SW Outfall Inspection	2025-02-10 11:16 AM	ROGERS, DUSTIN M	2025-02-10 11:19 AM	OUTFALLS	M284	17679	OUTFALLS	M284	17679
155001	SW Outfall Inspection	2025-02-06 03:49 AM	KIMBROW, DUSTIN R	2025-02-06 03:50 AM	OUTFALLS	T247	28065	OUTFALLS	T247	28065
155003	SW Outfall Inspection	2025-02-05 02:00 AM	ROGERS, DUSTIN M	2025-02-05 02:02 AM	OUTFALLS	M242	17266	OUTFALLS	M242	17266
155004	SW Outfall Inspection	2025-02-06 11:08 AM	ROGERS, DUSTIN M	2025-02-06 11:09 AM	OUTFALLS	M184	15685	OUTFALLS	M184	15685
155005	SW Outfall Inspection	2025-01-16 09:25 AM	KIMBROW, DUSTIN R	2025-01-16 09:26 AM	OUTFALLS	T220	25279	OUTFALLS	T220	25279
155006	SW Outfall Inspection	2024-12-02 03:17 AM	MCCURRY JR, RONALD G	2024-12-02 03:20 AM	OUTFALLS	T275	28486	OUTFALLS	T275	28486
155007	SW Outfall Inspection	2025-02-05 03:04 AM	ROGERS, DUSTIN M	2025-02-05 03:05 AM	OUTFALLS	M243	17267	OUTFALLS	M243	17267
155008	SW Outfall Inspection	2025-02-06 10:58 AM	ROGERS, DUSTIN M	2025-02-06 11:04 AM	OUTFALLS	M185	15686	OUTFALLS	M185	15686
155009	SW Outfall Inspection	2025-01-16 09:23 AM	KIMBROW, DUSTIN R	2025-01-16 09:24 AM	OUTFALLS	T221	25280	OUTFALLS	T221	25280
155010	SW Outfall Inspection	2025-02-06 11:36 AM	ROGERS, DUSTIN M	2025-02-06 11:42 AM	OUTFALLS	M181	15682	OUTFALLS	M181	15682

InspectionId	Inspection Type	Date Inspected	Inspected By	Finish Date	Entity Type	Entity Uid	Entity Sid	Feature Type	Feature Uid	Feature Id
155011	SW Outfall Inspection	2025-02-05 02:54 AM	ROGERS, DUSTIN M	2025-02-05 03:02 AM	OUTFALLS	M244	17268	OUTFALLS	M244	17268
155012	SW Outfall Inspection	2024-12-04 10:44 AM	ROGERS, DUSTIN M	2024-12-04 10:49 AM	OUTFALLS	M186	16061	OUTFALLS	M186	16061
155014	SW Outfall Inspection	2025-02-05 11:00 AM	MCCURRY JR, RONALD G	2025-02-05 11:05 AM	OUTFALLS	M232	16867	OUTFALLS	M232	16867
155015	SW Outfall Inspection	2024-12-04 10:52 AM	ROGERS, DUSTIN M	2024-12-04 10:55 AM	OUTFALLS	M187	16062	OUTFALLS	M187	16062
155016	SW Outfall Inspection	2025-02-05 02:07 AM	ROGERS, DUSTIN M	2025-02-05 02:10 AM	OUTFALLS	M245	17269	OUTFALLS	M245	17269
155019	SW Outfall Inspection	2025-02-05 02:14 AM	ROGERS, DUSTIN M	2025-02-05 02:18 AM	OUTFALLS	M246	17270	OUTFALLS	M246	17270
155020	SW Outfall Inspection	2024-12-04 10:38 AM	ROGERS, DUSTIN M	2024-12-04 10:41 AM	OUTFALLS	M188	16063	OUTFALLS	M188	16063
155022	SW Outfall Inspection	2025-01-16 11:29 AM	KIMBROW, DUSTIN R	2025-01-16 11:30 AM	OUTFALLS	T225	25284	OUTFALLS	T225	25284
155023	SW Outfall Inspection	2024-12-04 10:33 AM	ROGERS, DUSTIN M	2024-12-04 10:35 AM	OUTFALLS	M189	16064	OUTFALLS	M189	16064
155024	SW Outfall Inspection	2025-02-05 02:29 AM	ROGERS, DUSTIN M	2025-02-05 02:30 AM	OUTFALLS	M247	17271	OUTFALLS	M247	17271
155025	SW Outfall Inspection	2025-03-04 02:09 AM	KIMBROW, DUSTIN R	2025-03-04 02:10 AM	OUTFALLS	T170	24064	OUTFALLS	T170	24064
155026	SW Outfall Inspection	2025-01-30 10:44 AM	KIMBROW, DUSTIN R	2025-01-30 10:46 AM	OUTFALLS	T226	25662	OUTFALLS	T226	25662
155027	SW Outfall Inspection	2025-02-05 02:45 AM	ROGERS, DUSTIN M	2025-02-05 02:51 AM	OUTFALLS	M248	17272	OUTFALLS	M248	17272
155028	SW Outfall Inspection	2024-12-04 10:29 AM	ROGERS, DUSTIN M	2024-12-04 10:30 AM	OUTFALLS	M190	16065	OUTFALLS	M190	16065
155030	SW Outfall Inspection	2025-02-04 02:50 AM	KIMBROW, DUSTIN R	2025-02-04 02:51 AM	OUTFALLS	T228	25664	OUTFALLS	T228	25664
155031	SW Outfall Inspection	2024-12-04 09:59 AM	ROGERS, DUSTIN M	2024-12-04 10:04 AM	OUTFALLS	M191	16066	OUTFALLS	M191	16066
155032	SW Outfall Inspection	2025-02-05 02:37 AM	ROGERS, DUSTIN M	2025-02-05 02:39 AM	OUTFALLS	M249	17273	OUTFALLS	M249	17273
155034	SW Outfall Inspection	2025-01-30 11:14 AM	KIMBROW, DUSTIN R	2025-01-30 11:15 AM	OUTFALLS	T229	25665	OUTFALLS	T229	25665
155035	SW Outfall Inspection	2024-12-04 10:06 AM	ROGERS, DUSTIN M	2024-12-04 10:06 AM	OUTFALLS	M192	16067	OUTFALLS	M192	16067
155036	SW Outfall Inspection	2025-02-05 02:21 AM	ROGERS, DUSTIN M	2025-02-05 02:23 AM	OUTFALLS	M250	17274	OUTFALLS	M250	17274
155037	SW Outfall Inspection	2025-02-04 02:28 AM	KIMBROW, DUSTIN R	2025-02-04 02:30 AM	OUTFALLS	T294	29679	OUTFALLS	T294	29679
155039	SW Outfall Inspection	2025-02-06 01:30 AM	MCCURRY JR, RONALD G	2025-02-06 01:32 AM	OUTFALLS	M304	18063	OUTFALLS	M304	18063
155040	SW Outfall Inspection	2025-02-05 01:26 AM	ROGERS, DUSTIN M	2025-02-05 01:29 AM	OUTFALLS	M205	16080	OUTFALLS	M205	16080
155041	SW Outfall Inspection	2025-01-30 04:55 AM	MCCURRY JR, RONALD G	2025-01-30 05:00 AM	OUTFALLS	T321	50308	OUTFALLS	T321	50308
155042	SW Outfall Inspection	2025-02-06 11:22 AM	ROGERS, DUSTIN M	2025-02-06 11:23 AM	OUTFALLS	M305	18064	OUTFALLS	M305	18064
155043	SW Outfall Inspection	2025-02-05 01:19 AM	ROGERS, DUSTIN M	2025-02-05 01:22 AM	OUTFALLS	M206	16081	OUTFALLS	M206	16081
155044	SW Outfall Inspection	2025-02-04 04:30 AM	MCCURRY JR, RONALD G	2025-02-04 04:35 AM	OUTFALLS	T322	50309	OUTFALLS	T322	50309
155045	SW Outfall Inspection	2025-02-04 02:37 AM	KIMBROW, DUSTIN R	2025-02-04 02:39 AM	OUTFALLS	T146	23662	OUTFALLS	T146	23662
155046	SW Outfall Inspection	2025-02-05 11:06 AM	MCCURRY JR, RONALD G	2025-02-05 11:10 AM	OUTFALLS	M231	16866	OUTFALLS	M231	16866
155047	SW Outfall Inspection	2025-01-30 05:05 AM	MCCURRY JR, RONALD G	2025-01-30 05:06 AM	OUTFALLS	CW47	50310	OUTFALLS	CW47	50310
155048	SW Outfall Inspection	2025-02-04 02:41 AM	KIMBROW, DUSTIN R	2025-02-04 02:41 AM	OUTFALLS	T147	23663	OUTFALLS	T147	23663
155049	SW Outfall Inspection	2025-02-05 11:11 AM	MCCURRY JR, RONALD G	2025-02-05 11:15 AM	OUTFALLS	M233	16868	OUTFALLS	M233	16868
155050	SW Outfall Inspection	2025-01-30 04:36 AM	MCCURRY JR, RONALD G	2025-01-30 04:37 AM	OUTFALLS	CW48	50311	OUTFALLS	CW48	50311
155051	SW Outfall Inspection	2025-01-17 11:09 AM	KIMBROW, DUSTIN R	2025-01-17 11:10 AM	OUTFALLS	T180	24462	OUTFALLS	T180	24462
155052	SW Outfall Inspection	2025-02-05 11:19 AM	MCCURRY JR, RONALD G	2025-02-05 11:23 AM	OUTFALLS	M234	16869	OUTFALLS	M234	16869
155053	SW Outfall Inspection	2025-02-07 01:05 AM	MCCURRY JR, RONALD G	2025-02-07 01:15 AM	OUTFALLS	CW49	50312	OUTFALLS	CW49	50312
155055	SW Outfall Inspection	2025-02-05 11:39 AM	MCCURRY JR, RONALD G	2025-02-05 11:43 AM	OUTFALLS	M236	16872	OUTFALLS	M236	16872
155056	SW Outfall Inspection	2025-02-05 03:13 AM	MCCURRY JR, RONALD G	2025-02-05 03:21 AM	OUTFALLS	M263	17287	OUTFALLS	M263	17287
155057	SW Outfall Inspection	2025-02-07 01:25 AM	MCCURRY JR, RONALD G	2025-02-07 01:27 AM	OUTFALLS	CW50	50313	OUTFALLS	CW50	50313
155058	SW Outfall Inspection	2024-12-02 03:37 AM	MCCURRY JR, RONALD G	2024-12-02 03:55 AM	OUTFALLS	T268	28479	OUTFALLS	T268	28479
155060	SW Outfall Inspection	2025-02-10 11:10 AM	ROGERS, DUSTIN M	2025-02-10 11:12 AM	OUTFALLS	M294	17691	OUTFALLS	M294	17691
155061	SW Outfall Inspection	2025-01-30 10:53 AM	KIMBROW, DUSTIN R	2025-01-30 10:54 AM	OUTFALLS	T184	24863	OUTFALLS	T184	24863
155062	SW Outfall Inspection	2025-02-05 03:05 AM	MCCURRY JR, RONALD G	2025-02-05 03:05 AM	OUTFALLS	M264	17661	OUTFALLS	M264	17661
155063	SW Outfall Inspection	2025-02-05 01:08 AM	ROGERS, DUSTIN M	2025-02-05 01:08 AM	OUTFALLS	M216	16874	OUTFALLS	M216	16874
155064	SW Outfall Inspection	2024-12-04 03:45 AM	MCCURRY JR, RONALD G	2024-12-04 03:50 AM	OUTFALLS	CW51	50314	OUTFALLS	CW51	50314
155065	SW Outfall Inspection	2025-02-06 03:20 AM	KIMBROW, DUSTIN R	2025-02-06 03:21 AM	OUTFALLS	T252	28070	OUTFALLS	T252	28070
155066	SW Outfall Inspection	2025-02-10 10:53 AM	ROGERS, DUSTIN M	2025-02-10 10:56 AM	OUTFALLS	M295	17692	OUTFALLS	M295	17692
155067	SW Outfall Inspection	2024-12-19 02:25 AM	KIMBROW, DUSTIN R	2024-12-19 02:26 AM	OUTFALLS	T185	24864	OUTFALLS	T185	24864
155068	SW Outfall Inspection	2025-02-05 02:54 AM	MCCURRY JR, RONALD G	2025-02-05 03:00 AM	OUTFALLS	M265	17662	OUTFALLS	M265	17662
155069	SW Outfall Inspection	2024-12-02 02:43 AM	MCCURRY JR, RONALD G	2024-12-02 02:50 AM	OUTFALLS	T269	28480	OUTFALLS	T269	28480
155071	SW Outfall Inspection	2025-02-06 12:47 PM	MCCURRY JR, RONALD G	2025-02-06 12:50 PM	OUTFALLS	M252	17276	OUTFALLS	M252	17276
155072	SW Outfall Inspection	2024-12-04 03:24 AM	MCCURRY JR, RONALD G	2024-12-04 03:30 AM	OUTFALLS	CW52	50315	OUTFALLS	CW52	50315
155074	SW Outfall Inspection	2025-02-06 03:22 AM	KIMBROW, DUSTIN R	2025-02-06 03:22 AM	OUTFALLS	T253	28071	OUTFALLS	T253	28071
155075	SW Outfall Inspection	2025-02-05 01:07 AM	ROGERS, DUSTIN M	2025-02-05 01:07 AM	OUTFALLS	M217	16875	OUTFALLS	M217	16875
155076	SW Outfall Inspection	2025-02-06 01:50 AM	ROGERS, DUSTIN M	2025-02-06 01:51 AM	OUTFALLS	M313	46144	OUTFALLS	M313	46144
155078	SW Outfall Inspection	2024-12-04 10:12 AM	ROGERS, DUSTIN M	2024-12-04 10:12 AM	OUTFALLS	M194	16069	OUTFALLS	M194	16069
155079	SW Outfall Inspection	2025-02-06 01:29 AM	ROGERS, DUSTIN M	2025-02-06 01:29 AM	OUTFALLS	M296	17693	OUTFALLS	M296	17693
155080	SW Outfall Inspection	2025-02-05 02:48 AM	MCCURRY JR, RONALD G	2025-02-05 02:50 AM	OUTFALLS	M266	17663	OUTFALLS	M266	17663
155081	SW Outfall Inspection	2024-12-02 02:53 AM	MCCURRY JR, RONALD G	2024-12-02 02:55 AM	OUTFALLS	T270	28481	OUTFALLS	T270	28481
155082	SW Outfall Inspection	2025-01-30 03:18 AM	KIMBROW, DUSTIN R	2025-01-30 03:19 AM	OUTFALLS	T233	25669	OUTFALLS	T233	25669
155083	SW Outfall Inspection	2025-02-06 01:00 AM	MCCURRY JR, RONALD G	2025-02-06 01:03 AM	OUTFALLS	M253	17277	OUTFALLS	M253	17277
155084	SW Outfall Inspection	2025-02-06 11:17 AM	ROGERS, DUSTIN M	2025-02-06 11:20 AM	OUTFALLS	M152	14871	OUTFALLS	M152	14871
155085	SW Outfall Inspection	2025-02-10 11:30 AM	MCCURRY JR, RONALD G	2025-02-10 11:32 AM	OUTFALLS	M288	17681	OUTFALLS	M288	17681

InspectionId	Inspection Type	Date Inspected	Inspected By	Finish Date	Entity Type	Entity Uid	Entity Sid	Feature Type	Feature Uid	Feature Id
155086	SW Outfall Inspection	2024-12-04 03:37 AM	MCCURRY JR, RONALD G	2024-12-04 03:40 AM	OUTFALLS	CW53	50316	OUTFALLS	CW53	50316
155087	SW Outfall Inspection	2025-02-06 03:33 AM	KIMBROW, DUSTIN R	2025-02-06 03:33 AM	OUTFALLS	T254	28465	OUTFALLS	T254	28465
155091	SW Outfall Inspection	2025-02-06 01:48 AM	ROGERS, DUSTIN M	2025-02-06 01:48 AM	OUTFALLS	M312	46145	OUTFALLS	M312	46145
155092	SW Outfall Inspection	2025-02-06 01:26 AM	ROGERS, DUSTIN M	2025-02-06 01:26 AM	OUTFALLS	M297	17694	OUTFALLS	M297	17694
155093	SW Outfall Inspection	2025-02-05 11:01 AM	ROGERS, DUSTIN M	2025-02-05 11:05 AM	OUTFALLS	M195	16070	OUTFALLS	M195	16070
155095	SW Outfall Inspection	2025-01-16 09:59 AM	KIMBROW, DUSTIN R	2025-01-16 10:00 AM	OUTFALLS	T211	25270	OUTFALLS	T211	25270
155096	SW Outfall Inspection	2024-12-02 03:30 AM	MCCURRY JR, RONALD G	2024-12-02 03:33 AM	OUTFALLS	T276	28865	OUTFALLS	T276	28865
155097	SW Outfall Inspection	2025-01-30 03:32 AM	KIMBROW, DUSTIN R	2025-01-30 03:33 AM	OUTFALLS	T234	25670	OUTFALLS	T234	25670
155098	SW Outfall Inspection	2025-02-10 11:40 AM	MCCURRY JR, RONALD G	2025-02-10 11:42 AM	OUTFALLS	M289	17682	OUTFALLS	M289	17682
155100	SW Outfall Inspection	2025-02-06 03:34 AM	KIMBROW, DUSTIN R	2025-02-06 03:34 AM	OUTFALLS	T255	28466	OUTFALLS	T255	28466
155103	SW Outfall Inspection	2024-12-04 11:00 AM	ROGERS, DUSTIN M	2024-12-04 11:03 AM	OUTFALLS	M324	47769	OUTFALLS	M324	47769
155104	SW Outfall Inspection	2025-02-06 01:32 AM	ROGERS, DUSTIN M	2025-02-06 01:36 AM	OUTFALLS	M298	17695	OUTFALLS	M298	17695
155105	SW Outfall Inspection	2025-02-06 12:55 PM	MCCURRY JR, RONALD G	2025-02-06 12:58 PM	OUTFALLS	M254	17278	OUTFALLS	M254	17278
155106	SW Outfall Inspection	2025-02-05 10:58 AM	ROGERS, DUSTIN M	2025-02-05 10:59 AM	OUTFALLS	M196	16071	OUTFALLS	M196	16071
155107	SW Outfall Inspection	2025-02-05 02:06 AM	MCCURRY JR, RONALD G	2025-02-05 02:08 AM	OUTFALLS	M268	17665	OUTFALLS	M268	17665
155108	SW Outfall Inspection	2024-12-02 03:33 AM	MCCURRY JR, RONALD G	2024-12-02 03:37 AM	OUTFALLS	T277	28866	OUTFALLS	T277	28866
155109	SW Outfall Inspection	2025-01-30 03:04 AM	KIMBROW, DUSTIN R	2025-01-30 03:04 AM	OUTFALLS	T240	26867	OUTFALLS	T240	26867
155110	SW Outfall Inspection	2025-02-10 11:23 AM	ROGERS, DUSTIN M	2025-02-10 11:25 AM	OUTFALLS	M290	17683	OUTFALLS	M290	17683
155112	SW Outfall Inspection	2025-03-28 01:10 AM	KIMBROW, DUSTIN R	2025-03-28 01:11 AM	OUTFALLS	T256	28467	OUTFALLS	T256	28467
155114	SW Outfall Inspection	2025-03-28 12:51 PM	KIMBROW, DUSTIN R	2025-03-28 12:51 PM	OUTFALLS	T260	28471	OUTFALLS	T260	28471
155115	SW Outfall Inspection	2025-01-16 09:51 AM	KIMBROW, DUSTIN R	2025-01-16 09:52 AM	OUTFALLS	T212	25271	OUTFALLS	T212	25271
155116	SW Outfall Inspection	2025-01-30 11:39 AM	KIMBROW, DUSTIN R	2025-01-30 11:40 AM	OUTFALLS	T308	48213	OUTFALLS	T308	48213
155117	SW Outfall Inspection	2025-02-06 12:15 PM	MCCURRY JR, RONALD G	2025-02-06 12:20 PM	OUTFALLS	M256	17280	OUTFALLS	M256	17280
155118	SW Outfall Inspection	2024-12-04 10:23 AM	ROGERS, DUSTIN M	2024-12-04 10:26 AM	OUTFALLS	M197	16072	OUTFALLS	M197	16072
155119	SW Outfall Inspection	2025-02-06 01:13 AM	ROGERS, DUSTIN M	2025-02-06 01:18 AM	OUTFALLS	M299	17696	OUTFALLS	M299	17696
155120	SW Outfall Inspection	2024-12-02 03:23 AM	MCCURRY JR, RONALD G	2024-12-02 03:26 AM	OUTFALLS	T278	28867	OUTFALLS	T278	28867
155121	SW Outfall Inspection	2025-01-30 02:43 AM	KIMBROW, DUSTIN R	2025-01-30 02:48 AM	OUTFALLS	T242	27666	OUTFALLS	T242	27666
155123	SW Outfall Inspection	2025-02-05 02:18 AM	MCCURRY JR, RONALD G	2025-02-05 02:20 AM	OUTFALLS	M269	17666	OUTFALLS	M269	17666
155125	SW Outfall Inspection	2025-02-10 11:29 AM	ROGERS, DUSTIN M	2025-02-10 11:30 AM	OUTFALLS	M291	17684	OUTFALLS	M291	17684
155127	SW Outfall Inspection	2025-02-05 12:59 PM	ROGERS, DUSTIN M	2025-02-05 01:02 AM	OUTFALLS	M219	16877	OUTFALLS	M219	16877
155128	SW Outfall Inspection	2024-12-19 10:46 AM	KIMBROW, DUSTIN R	2024-12-19 10:47 AM	OUTFALLS	T192	24871	OUTFALLS	T192	24871
155129	SW Outfall Inspection	2025-01-17 11:47 AM	KIMBROW, DUSTIN R	2025-01-17 11:47 AM	OUTFALLS	T264	28475	OUTFALLS	T264	28475
155130	SW Outfall Inspection	2025-01-30 11:34 AM	KIMBROW, DUSTIN R	2025-01-30 11:35 AM	OUTFALLS	T309	48214	OUTFALLS	T309	48214
155131	SW Outfall Inspection	2025-01-16 09:47 AM	KIMBROW, DUSTIN R	2025-01-16 09:47 AM	OUTFALLS	T213	25272	OUTFALLS	T213	25272
155132	SW Outfall Inspection	2025-02-06 12:05 PM	MCCURRY JR, RONALD G	2025-02-06 12:10 PM	OUTFALLS	M257	17281	OUTFALLS	M257	17281
155134	SW Outfall Inspection	2025-02-05 09:55 AM	ROGERS, DUSTIN M	2025-02-05 09:56 AM	OUTFALLS	M198	16073	OUTFALLS	M198	16073
155135	SW Outfall Inspection	2025-03-28 12:45 PM	KIMBROW, DUSTIN R	2025-03-28 12:46 PM	OUTFALLS	T261	28472	OUTFALLS	T261	28472
155138	SW Outfall Inspection	2025-02-05 02:38 AM	MCCURRY JR, RONALD G	2025-02-05 02:40 AM	OUTFALLS	M270	17667	OUTFALLS	M270	17667
155139	SW Outfall Inspection	2025-02-06 11:32 AM	ROGERS, DUSTIN M	2025-02-06 11:32 AM	OUTFALLS	M177	15678	OUTFALLS	M177	15678
155140	SW Outfall Inspection	2025-02-10 11:33 AM	ROGERS, DUSTIN M	2025-02-10 11:34 AM	OUTFALLS	M292	17685	OUTFALLS	M292	17685
155142	SW Outfall Inspection	2025-02-05 11:10 AM	ROGERS, DUSTIN M	2025-02-05 11:12 AM	OUTFALLS	M220	16878	OUTFALLS	M220	16878
155143	SW Outfall Inspection	2024-12-19 10:49 AM	KIMBROW, DUSTIN R	2024-12-19 10:49 AM	OUTFALLS	T193	24872	OUTFALLS	T193	24872
155144	SW Outfall Inspection	2025-01-30 11:12 AM	KIMBROW, DUSTIN R	2025-01-30 11:13 AM	OUTFALLS	T227	25663	OUTFALLS	T227	25663
155145	SW Outfall Inspection	2025-03-28 01:05 AM	KIMBROW, DUSTIN R	2025-03-28 01:06 AM	OUTFALLS	T263	28473	OUTFALLS	T263	28473
155146	SW Outfall Inspection	2025-01-30 11:28 AM	KIMBROW, DUSTIN R	2025-01-30 11:28 AM	OUTFALLS	T310	48224	OUTFALLS	T310	48224
155147	SW Outfall Inspection	2025-01-16 09:43 AM	KIMBROW, DUSTIN R	2025-01-16 09:44 AM	OUTFALLS	T214	25273	OUTFALLS	T214	25273
155148	SW Outfall Inspection	2025-02-06 01:05 AM	ROGERS, DUSTIN M	2025-02-06 01:07 AM	OUTFALLS	M301	17698	OUTFALLS	M301	17698
155149	SW Outfall Inspection	2025-02-05 03:40 AM	MCCURRY JR, RONALD G	2025-02-06 03:45 AM	OUTFALLS	M258	17282	OUTFALLS	M258	17282
155150	SW Outfall Inspection	2024-12-02 02:08 AM	MCCURRY JR, RONALD G	2024-12-02 02:10 AM	OUTFALLS	T265	28476	OUTFALLS	T265	28476
155151	SW Outfall Inspection	2025-02-05 10:33 AM	ROGERS, DUSTIN M	2025-02-05 10:38 AM	OUTFALLS	M199	16074	OUTFALLS	M199	16074
155152	SW Outfall Inspection	2024-12-03 04:22 AM	MCCURRY JR, RONALD G	2024-12-04 04:24 AM	OUTFALLS	T282	29268	OUTFALLS	T282	29268
155153	SW Outfall Inspection	2025-01-17 10:08 AM	KIMBROW, DUSTIN R	2025-01-17 10:09 AM	OUTFALLS	T202	24881	OUTFALLS	T202	24881
155154	SW Outfall Inspection	2025-02-05 02:22 AM	MCCURRY JR, RONALD G	2025-02-05 02:24 AM	OUTFALLS	M271	17668	OUTFALLS	M271	17668
155155	SW Outfall Inspection	2025-02-10 11:03 AM	ROGERS, DUSTIN M	2025-02-10 11:03 AM	OUTFALLS	M293	17686	OUTFALLS	M293	17686
155156	SW Outfall Inspection	2025-02-06 11:26 AM	ROGERS, DUSTIN M	2025-02-06 11:27 AM	OUTFALLS	M178	15679	OUTFALLS	M178	15679
155158	SW Outfall Inspection	2025-02-26 02:55 AM	KIMBROW, DUSTIN R	2025-02-26 02:56 AM	OUTFALLS	M221	16879	OUTFALLS	M221	16879
155161	SW Outfall Inspection	2025-02-04 01:46 AM	KIMBROW, DUSTIN R	2025-02-04 01:47 AM	OUTFALLS	T235	25671	OUTFALLS	T235	25671
155162	SW Outfall Inspection	2024-12-02 02:58 AM	MCCURRY JR, RONALD G	2024-12-02 03:02 AM	OUTFALLS	T271	28482	OUTFALLS	T271	28482
155163	SW Outfall Inspection	2025-01-16 09:41 AM	KIMBROW, DUSTIN R	2025-01-16 09:42 AM	OUTFALLS	T215	25274	OUTFALLS	T215	25274
155164	SW Outfall Inspection	2025-02-05 03:48 AM	MCCURRY JR, RONALD G	2025-02-05 03:52 AM	OUTFALLS	M259	17283	OUTFALLS	M259	17283
155165	SW Outfall Inspection	2025-02-06 01:20 AM	MCCURRY JR, RONALD G	2025-02-06 01:22 AM	OUTFALLS	M302	18061	OUTFALLS	M302	18061
155166	SW Outfall Inspection	2025-02-05 10:40 AM	ROGERS, DUSTIN M	2025-02-05 10:42 AM	OUTFALLS	M200	16075	OUTFALLS	M200	16075
155168	SW Outfall Inspection	2025-01-17 10:15 AM	KIMBROW, DUSTIN R	2025-01-17 10:16 AM	OUTFALLS	T203	25262	OUTFALLS	T203	25262

InspectionId	Inspection Type	Date Inspected	Inspected By	Finish Date	Entity Type	Entity Uid	Entity Sid	Feature Type	Feature Uid	Feature Id
155169	SW Outfall Inspection	2025-02-06 11:28 AM	ROGERS, DUSTIN M	2025-02-06 11:29 AM	OUTFALLS	M179	15680	OUTFALLS	M179	15680
155171	SW Outfall Inspection	2025-02-10 10:25 AM	ROGERS, DUSTIN M	2025-02-10 10:36 AM	OUTFALLS	M280	17687	OUTFALLS	M280	17687
155173	SW Outfall Inspection	2025-02-26 02:53 AM	KIMBROW, DUSTIN R	2025-02-26 02:54 AM	OUTFALLS	M222	16880	OUTFALLS	M222	16880
155174	SW Outfall Inspection	2025-02-04 03:00 AM	KIMBROW, DUSTIN R	2025-02-04 03:01 AM	OUTFALLS	M306	29683	OUTFALLS	M306	29683
155175	SW Outfall Inspection	2024-12-02 03:05 AM	MCCURRY JR, RONALD G	2024-12-02 03:07 AM	OUTFALLS	T272	28483	OUTFALLS	T272	28483
155176	SW Outfall Inspection	2025-02-03 04:04 AM	KIMBROW, DUSTIN R	2025-02-03 04:04 AM	OUTFALLS	T238	26865	OUTFALLS	T238	26865
155177	SW Outfall Inspection	2025-01-16 09:39 AM	KIMBROW, DUSTIN R	2025-01-16 09:40 AM	OUTFALLS	T216	25275	OUTFALLS	T216	25275
155179	SW Outfall Inspection	2025-02-05 04:00 AM	MCCURRY JR, RONALD G	2025-02-05 04:01 AM	OUTFALLS	M260	17284	OUTFALLS	M260	17284
155180	SW Outfall Inspection	2025-02-05 10:43 AM	ROGERS, DUSTIN M	2025-02-05 10:44 AM	OUTFALLS	M201	16076	OUTFALLS	M201	16076
155181	SW Outfall Inspection	2025-01-17 10:17 AM	KIMBROW, DUSTIN R	2025-01-17 10:17 AM	OUTFALLS	T204	25263	OUTFALLS	T204	25263
155182	SW Outfall Inspection	2025-02-10 10:27 AM	ROGERS, DUSTIN M	2025-02-10 10:34 AM	OUTFALLS	M280	17687	OUTFALLS	M280	17687
155183	SW Outfall Inspection	2025-02-06 01:59 AM	KIMBROW, DUSTIN R	2025-02-06 02:00 AM	OUTFALLS	M223	16881	OUTFALLS	M223	16881
155185	SW Outfall Inspection	2025-02-06 11:43 AM	ROGERS, DUSTIN M	2025-02-06 11:44 AM	OUTFALLS	M180	15681	OUTFALLS	M180	15681
155186	SW Outfall Inspection	2025-02-06 12:41 PM	ROGERS, DUSTIN M	2025-02-06 12:42 PM	OUTFALLS	M276	17673	OUTFALLS	M276	17673
155187	SW Outfall Inspection	2024-12-19 11:07 AM	KIMBROW, DUSTIN R	2024-12-19 11:07 AM	OUTFALLS	T195	24874	OUTFALLS	T195	24874
155189	SW Outfall Inspection	2025-01-16 09:34 AM	KIMBROW, DUSTIN R	2025-01-16 09:35 AM	OUTFALLS	T217	25276	OUTFALLS	T217	25276
155190	SW Outfall Inspection	2025-02-05 04:02 AM	MCCURRY JR, RONALD G	2025-02-05 04:06 AM	OUTFALLS	M261	17285	OUTFALLS	M261	17285
155191	SW Outfall Inspection	2024-12-02 03:09 AM	MCCURRY JR, RONALD G	2024-12-02 03:12 AM	OUTFALLS	T273	28484	OUTFALLS	T273	28484
155192	SW Outfall Inspection	2025-02-05 10:00 AM	ROGERS, DUSTIN M	2025-02-05 10:14 AM	OUTFALLS	M202	16077	OUTFALLS	M202	16077
155193	SW Outfall Inspection	2025-01-17 10:18 AM	KIMBROW, DUSTIN R	2025-01-17 10:19 AM	OUTFALLS	T205	25264	OUTFALLS	T205	25264
155195	SW Outfall Inspection	2025-02-10 11:38 AM	ROGERS, DUSTIN M	2025-02-10 11:40 AM	OUTFALLS	M285	17689	OUTFALLS	M285	17689
155196	SW Outfall Inspection	2025-02-04 03:25 AM	KIMBROW, DUSTIN R	2025-02-06 01:53 AM	OUTFALLS	M224	16882	OUTFALLS	M224	16882
155197	SW Outfall Inspection	2025-02-10 11:15 AM	MCCURRY JR, RONALD G	2025-02-10 11:20 AM	OUTFALLS	M314	46142	OUTFALLS	M314	46142
155198	SW Outfall Inspection	2024-12-19 01:53 AM	KIMBROW, DUSTIN R	2024-12-19 01:54 AM	OUTFALLS	T196	24875	OUTFALLS	T196	24875
155199	SW Outfall Inspection	2025-01-16 09:30 AM	KIMBROW, DUSTIN R	2025-01-16 09:31 AM	OUTFALLS	T218	25277	OUTFALLS	T218	25277
155200	SW Outfall Inspection	2025-01-17 10:31 AM	KIMBROW, DUSTIN R	2025-01-17 10:32 AM	OUTFALLS	T206	25265	OUTFALLS	T206	25265
155201	SW Outfall Inspection	2025-02-04 03:13 AM	KIMBROW, DUSTIN R	2025-02-04 03:13 AM	OUTFALLS	M225	16883	OUTFALLS	M225	16883
155205	SW Outfall Inspection	2025-02-04 03:06 AM	KIMBROW, DUSTIN R	2025-02-04 03:07 AM	OUTFALLS	M226	16884	OUTFALLS	M226	16884
155207	SW Outfall Inspection	2024-12-03 04:29 AM	MCCURRY JR, RONALD G	2024-12-03 04:31 AM	OUTFALLS	T293	29279	OUTFALLS	T293	29279
155208	SW Outfall Inspection	2025-02-05 01:41 AM	ROGERS, DUSTIN M	2025-02-05 01:44 AM	OUTFALLS	M240	17264	OUTFALLS	M240	17264
155471	SW Outfall Inspection	2025-02-04 04:44 AM	MCCURRY JR, RONALD G	2025-02-04 04:50 AM	OUTFALLS	T323	50709	OUTFALLS	T323	50709
155472	SW Outfall Inspection	2025-02-04 04:37 AM	MCCURRY JR, RONALD G	2025-02-04 04:40 AM	OUTFALLS	T324	51109	OUTFALLS	T324	51109
155473	SW Outfall Inspection	2025-02-05 10:19 AM	MCCURRY JR, RONALD G	2025-02-10 10:21 AM	OUTFALLS	CW61	51110	OUTFALLS	CW61	51110
155474	SW Outfall Inspection	2025-02-10 10:24 AM	MCCURRY JR, RONALD G	2025-02-10 10:30 AM	OUTFALLS	CW62	51111	OUTFALLS	CW62	51111
155678	SW Outfall Inspection	2025-03-28 01:27 AM	KIMBROW, DUSTIN R	2025-03-28 01:28 AM	OUTFALLS	T328	51129	OUTFALLS	T328	51129
155679	SW Outfall Inspection	2025-03-28 01:28 AM	KIMBROW, DUSTIN R	2025-03-28 01:29 AM	OUTFALLS	T329	51130	OUTFALLS	T329	51130
155680	SW Outfall Inspection	2024-12-02 02:37 AM	MCCURRY JR, RONALD G	2024-12-02 02:42 AM	OUTFALLS	T330	51511	OUTFALLS	T330	51511
155681	SW Outfall Inspection	2025-02-10 10:55 AM	MCCURRY JR, RONALD G	2025-02-10 10:57 AM	OUTFALLS	M337	51509	OUTFALLS	M337	51509
155682	SW Outfall Inspection	2025-02-10 10:57 AM	MCCURRY JR, RONALD G	2025-02-10 11:05 AM	OUTFALLS	M338	51510	OUTFALLS	M338	51510
155683	SW Outfall Inspection	2025-02-06 01:00 AM	ROGERS, DUSTIN M	2025-02-06 01:00 AM	OUTFALLS	M339	51513	OUTFALLS	M339	51513
155684	SW Outfall Inspection	2024-12-03 02:23 AM	MCCURRY JR, RONALD G	2024-12-02 02:28 AM	OUTFALLS	T266	28477	OUTFALLS	T266	28477
155685	SW Outfall Inspection	2025-02-03 04:05 AM	KIMBROW, DUSTIN R	2025-02-03 04:06 AM	OUTFALLS	T238	26865	OUTFALLS	T238	26865
155686	SW Outfall Inspection	2025-01-17 11:19 AM	KIMBROW, DUSTIN R	2025-01-17 11:21 AM	OUTFALLS	T327	51128	OUTFALLS	T327	51128
155687	SW Outfall Inspection	2025-03-28 01:04 AM	KIMBROW, DUSTIN R	2025-03-28 01:04 AM	OUTFALLS	T326	51127	OUTFALLS	T326	51127
155688	SW Outfall Inspection	2025-02-06 10:30 AM	ROGERS, DUSTIN M	2025-02-06 10:33 AM	OUTFALLS	M343	51517	OUTFALLS	M343	51517
155689	SW Outfall Inspection	2025-02-06 10:28 AM	ROGERS, DUSTIN M	2025-02-06 10:28 AM	OUTFALLS	M344	51518	OUTFALLS	M344	51518
155690	SW Outfall Inspection	2025-02-06 10:20 AM	ROGERS, DUSTIN M	2025-02-06 10:22 AM	OUTFALLS	M345	51519	OUTFALLS	M345	51519
155691	SW Outfall Inspection	2025-01-30 03:25 AM	KIMBROW, DUSTIN R	2025-01-30 03:26 AM	OUTFALLS	T325	51126	OUTFALLS	T325	51126
155692	SW Outfall Inspection	2024-12-19 10:54 AM	KIMBROW, DUSTIN R	2024-12-19 10:55 AM	OUTFALLS	T331	51544	OUTFALLS	T331	51544
156973	SW Outfall Inspection	2025-01-17 10:56 AM	KIMBROW, DUSTIN R	2025-01-17 10:58 AM	OUTFALLS	P20	2462	OUTFALLS	P20	2462
157202	SW Outfall Inspection	2025-02-03 04:11 AM	KIMBROW, DUSTIN R	2025-02-03 04:11 AM	OUTFALLS	T332	52309	OUTFALLS	T332	52309
157227	SW Outfall Inspection	2025-02-04 02:22 AM	KIMBROW, DUSTIN R	2025-02-04 02:23 AM	OUTFALLS	T259	28470	OUTFALLS	T259	28470
158890	SW Outfall Inspection	2025-02-10 10:38 AM	ROGERS, DUSTIN M	2025-02-10 10:40 AM	OUTFALLS	M281	17688	OUTFALLS	M281	17688