

2022-2023

City of Graysville



Annual Report

City of Graysville

Jefferson County Department of Health
Storm Water Management Authority, Inc.

May 2023

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General Information

Signatory Requirements

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.

Clark "Julio" Davis, Mayor

 _____
Signature Date 05-30-2023

Address: PO Box 130
Graysville, AL 35073
Phone: (205) 674-5643

Notice of Reliance

The City of Graysville is a member of the Storm Water Management Authority, Inc. (SWMA) which is a corporation that allows the member cities within Jefferson County to cost share storm water services. SWMA entered a contract with the Jefferson County Department of Health (JCDH) to provide certain storm water services to the cities. The contract is found in Appendix A. JCDH assists with education, outfall screening, water quality complaints, the development of the permit-related procedures and forms, training, and activity recording software. The City of Graysville is responsible for the enforcement of all ordinances.

Responsible Parties

The following parties had input and were responsible for the preparation of the annual report:

| Agency | Name | Phone Number | Address | Email address |
|---------------------------------------|-------------------|----------------|--|-------------------------------|
| City of Graysville | Mayor Julio Davis | (205) 674-5643 | 246 South Main Street Graysville AL 35073 | mayordavis2017@bellsouth.net |
| City of Graysville | Chief Gilchrist | (205) 674-5643 | 246 South Main Street Graysville AL 35073 | ggilchrist@graysvillecity.org |
| City of Graysville | Brad Alexander | (205) 674-5643 | 246 South Main Street Graysville AL 35073 | balexander@graysvillecity.org |
| Jefferson County Department of Health | Scott Hofer | (205) 930-1274 | 1400 Sixth Avenue South Birmingham, AL 35233 | scott.hofer@jcdh.org |
| Jefferson County Department of Health | Jonika Smith | (205) 558-2103 | 1400 Sixth Avenue South Birmingham, AL 35233 | jonika.smith@jcdh.org |

Introduction

In the 1987 amendments to the Clean Water Act (CWA), Congress directed the U.S. Environmental Protection Agency (EPA) to develop a phased approach to controlling storm water discharges under the National Pollutant Discharge Elimination System (NPDES) program. This action was based, in part, on growing evidence of the impact storm water discharges have on water quality. According to the 2004 National Water Quality Inventory (a biannual report to Congress) roughly 40% of the Nation's waters were unable to fully support their designated beneficial uses (e.g. fishable, swimmable, etc.). The information provided by the states for the inventory indicates that 44% of the Nation's rivers, 64% of lakes, and 30% of estuaries and coastal waters are water quality impaired.

In 1990, EPA promulgated regulations for establishing water quality-based municipal storm water programs to address storm water runoff from certain industrial and construction activities and from medium and large municipal separate storm sewer systems (MS4s) serving populations of 100,000 or greater. These Phase I regulations were incorporated into the existing NPDES permit rules that address point source dischargers. As a result, urban nonpoint source runoff became regulated as a point source. In 1999, EPA promulgated regulations to address storm water runoff from small MS4s; these are Phase II regulations.

The Alabama Department of Environmental Management (ADEM) presently has primary jurisdiction over permitting and enforcement of the Storm Water Program for Alabama. In 2011, the City of Graysville became a Phase II MS4 (General NPDES Permit No. ALR040038). On October 1, 2013 the City of Graysville joined SWMA as a member city. While the City is retaining its Phase II MS4 General NPDES permit, SWMA is helping the City fulfill its permit requirements. JCDH is on contract with SWMA to fulfill certain components of the storm water permit. The contract can be found in **Appendix A**.

On September 16, 2021, Graysville received its latest permit reissue. The permit is effective from October 1, 2021 until September 30, 2026 (**Appendix A**).

The City of Graysville's program has been developed to include the storm water pollution prevention and management programs described in Part III of its NPDES Permit. Part III describes six program elements that are required to be incorporated in the City's program.

The following information summarizes the City's efforts for the reporting period April 1, 2022 through March 31, 2023 to comply with the above listed program elements.

MS4 Characterization

The City of Graysville covers approximately 6.3 square miles. Population, as measured in the 2020 Census, is approximately 1,950 people with an overall population density of approximately 310 people per square mile. Municipalities immediately adjacent to the City of Graysville include the City of Adamsville (population of 4,366) to the south and the City of Brookside (population of 1,253) to the northeast.

The land uses in the City, based on USGS data are as follows:

- Industrial - less than 1%
- Commercial - 3%
- Residential - 17%
- Rural - 79%

Figure 1 shows the corporate limits for the City of Graysville and land cover.

The Graysville area receives approximately 55 inches of rainfall annually. Rainfall tends to be evenly distributed throughout the year with drier periods occurring during late summer and early fall. Storm water runoff from the City of Graysville discharges into six receiving streams:

- Cane Creek
- Coal Creek
- Fields Branch
- Fivemile Creek
- Prudes Creek
- Sleepy Hollow Branch

Currently Fivemile Creek is on the 303(d) list for pathogens (E. coli) but there is no approved total maximum daily load (TMDL).

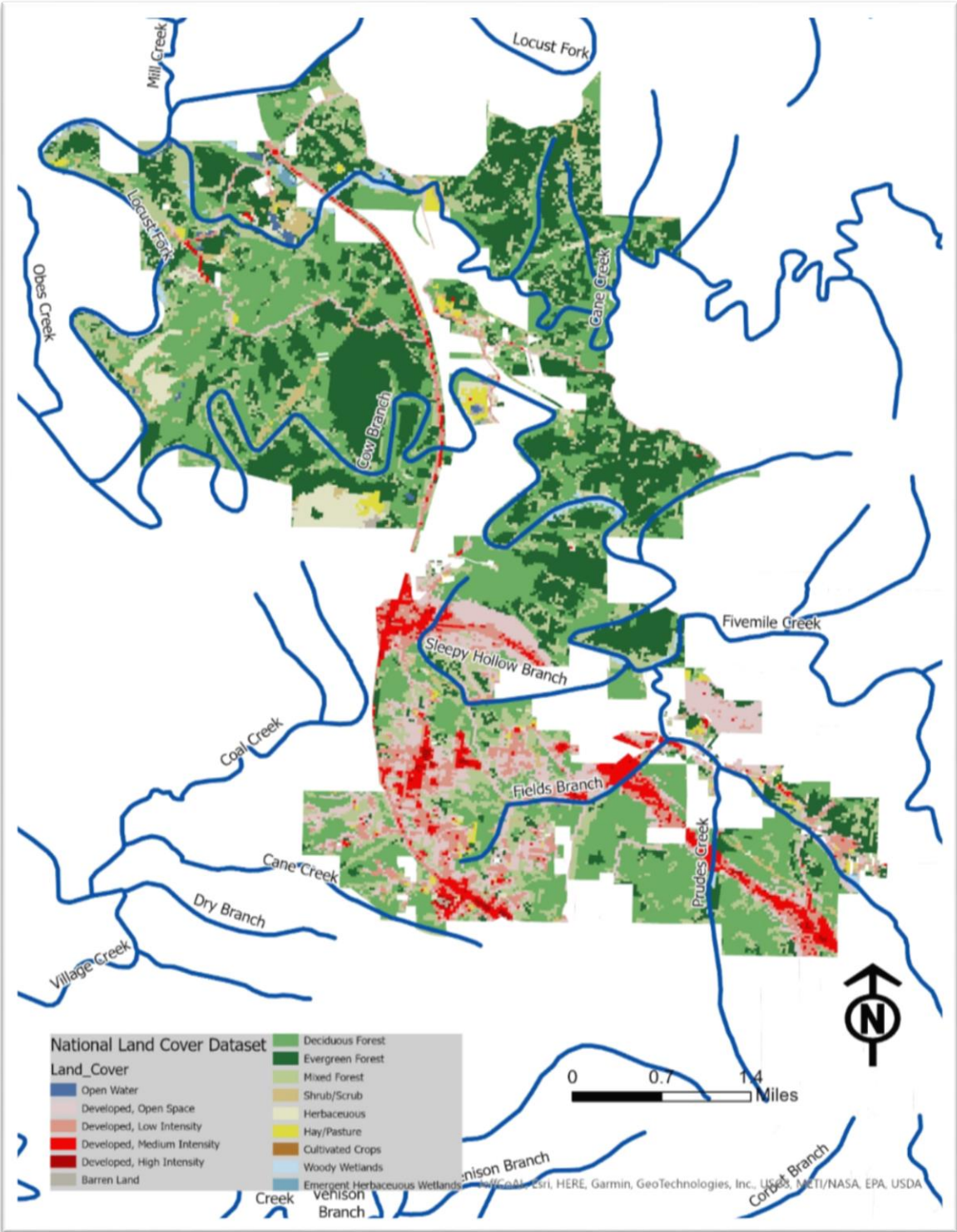


Figure 1. Graysville's Municipal Boundaries and Land Cover

Program Requirements

The information contained in this report demonstrates the SWMA, JCDH, and the City’s efforts to maintain and comply with the NPDES MS4 regulations and requirements. The overall goal is to continually improve and refine the program elements to best meet the needs of the City and the permit requirements for Phase II MS4s.

Public Education and Public Involvement on Storm Water Impacts

The City uses various methods to educate and involve the public in general storm water management issues. These include water utility mailings that detail storm water hazards and solutions as well as posting fliers and brochures in civic buildings.

The City receives complaints and requests by phone and records them for addressing and record keeping. Citizens also express complaints at City Council meetings. These often result in work orders for the Public Works Department to remove debris from a storm ditch or similar requests. Any water quality complaints or illicit discharges are worked by the JCDH on behalf of Graysville.

Requirement 1: A description of the method used to seek and consider input from the public in the development, revision and implementation of the SWMPP.

The City of Graysville announced the public comment period at a March 2023 City Council meeting, posted it on social media outlets, and displayed the announcement at City Hall.

Requirement 2: A description of the activities used to involve groups and/or individuals in the development, revision and implementation of the SWMPP.

The City of Graysville posted the draft SWMPP on its website for a two-week period of time. They asked for comments to be sent to City Hall or comment during the City Council meeting.

| Date | Attendees | Meeting Description |
|---------------|-------------------------------|---|
| March 3, 2023 | Mayor and Municipal Personnel | Announcement of public comment period for new SWMPP |

Requirement 3: A description of the targeted pollutant sources the public education and public involvement program addressed.

The City has targeted litter and trash as a pollutant source. MLK Day of Service for Minor High School was held January 16, 2023. Anti-littering signage is posted throughout the City.

Requirement 4: A description of the individuals and groups targeted and how many groups and/or individuals participated in the programs.

The program involved the general public, builders, developers, and students. Website materials, calendars, posters, and resource booklets were used to reach out to the general public.

The ESC Workshop provided bi-annually to builders and developers from throughout Jefferson County was held on June 21, 2022. Fultondale has brochures and links to pertinent resources for contractors, developers, and engineers on its website (<http://www.graysvillecity.com/stormwater/>).

A presentation on stormwater and litter was completed at Minor High School in January 2023. The information prepared the students for the 2023 Litter Quitter Video Competition.

JCDH provided a storm water calendar for 2022 and 2023. The calendar depicts photos of local creeks and wildlife. Additionally, information is included on various storm water topics along with links to informational sites, recycling services and community events.

Various activities were provided to Jefferson County citizens of all ages during the reporting period. The activities included: Alabama Water Watch, BAMA Annual Exposition, Birmingham Botanical Garden's Lunch and Learn, Cahaba River Society Fry Down, Electronic Collection Days, Household Hazardous Waste Collection Day, Fiesta Health and Wellness Fair, and a Rain Barrel Workshop.

Additionally, JCDH sponsored a rain barrel paint project at the Jefferson County International Baccalaureate School for sixth to eighth grade. Students from across Jefferson County learned about storm water and painted a storm water-inspired landscape on a rain barrel.

Requirement 5: A description of the activities used address the reduction of litter, floatables and debris from entering the MS4 as required in Part III.B.1.b.iii.

The City has anti-littering signs posted throughout the municipality. Also, the City installed signs received from JCDH identifying the Fivemile Creek watershed.

During the reporting year there were four electronic collection days available to all Jefferson County citizens. These type of items are often illegally dumped. The dates were May 14, 2022, June 11, 2022, October 8, 2022, and January 28, 2023 and the respective drop off sites were Center Point Satellite Courthouse, Valley Creek Wastewater Treatment Plant, Birmingham City Hall, and The Birmingham Zoo. The events were promoted city wide via word of mouth and on social media. Participants received an informational package that included educational outreach materials on the environment and recycling.

On April 9, 2022, JCDH, SWMA and the Jefferson County Commission sponsored a household hazardous waste collection day with sites in Bessemer, Gardendale and Irondale for all Jefferson County residents. The sites collected over 89 tons from 1,037 households.

The Litter Quitter video competition was held in 2022 and county-wide public service announcements giving an anti-littering message were aired.

Requirement 6: A description of the communication mechanism(s) or advertisement(s) used to inform individuals, households, public and/or groups as well as the quantity that were distributed (i.e. number of printed brochures, copies of newspapers, workshops, public service announcements, etc.)

The program provided information to the general public through brochures, posters and resource booklets. The information distributed by brochures is as follows: the storm water fee; JCDH's Watershed Protection Program; pesticides, herbicides, fertilizers (PHFs); household hazardous waste (HHW); SWMA and JCDH's Storm Water Hotline number; pet waste disposal; erosion and sedimentation controls; and illicit discharge detection and elimination (IDDE). During the reporting period, 60 brochures were picked up from City Hall.

The City also has a webpage with storm water information and hotline information to report different types of storm water pollution.

Posters were placed around the City to educate the public on illicit discharges and where to report any observed activity. Additionally, the Graysville Gas and Water Board included storm water messaging on customer gas bills. Seventy-five storm water calendars were also distributed to the City.

The Litter Quitters video competition also filmed a public service message at the conclusion of the competition with students from across Jefferson County. There were 980,800 digital ads promoting anti-litter public service announcements aired on TV and other digital platforms equaling 7,241,429 impressions.

See **Appendix B** for examples of the communication mechanisms.

Requirement 7: Results of the evaluation of the effectiveness of the public education and public involvement program

The City continues to explore options to bring awareness to storm water issues and gain public participation in reducing storm water pollutants. As a result of the City's education efforts more than 3,000 local citizens received information regarding storm water protection and anti-litter.

See **Appendix B** for additional education and outreach activities.

Illicit Discharge Detection and Elimination (IDDE)

The City of Graysville is using the United States Geological Survey's National Hydrography Dataset to identify the Waters of the State. The dataset was reevaluated in 2021, and Graysville has 33 miles of streams within its city limits JCDH attempts to inspect at least 15% or 4.95 miles of streams each year. The goal is to inspect 100% of the waters of the state within the five-year cycle. The MS4 is currently being mapped using Geographic Information Systems (GIS).

Requirement #1: List the outfalls observed in the annual reporting year to demonstrate that 100% of the outfalls are screened once per five years during the dry weather screening.

During the reporting period, 6.8 miles, or 21% of the total streams, were screened. Coordinates for the 15 outfalls observed during this reporting period are in **Appendix C**. Priority sites in accordance with the SWMPP were also checked for illicit discharges and none were found. The areas surrounding the High Priority sites were investigated on March 28, 2023 and no illicit discharges were found (**Figure 3**).

Requirement #2: Provide updated MS4 map(s) unless there are no changes to the map that was previously submitted.

A total of 30 outfalls have been identified within Graysville's City limits. Coordinates for all outfalls are in **Appendix C**. The updated outfall map is shown in **Figure 2**.

Requirement #3: Copies of, or a link to, the IDDE ordinance or other regulatory mechanism.

The City enacted an Illicit Discharge Detection and Elimination Ordinance in May of 2018. A copy is in **Appendix C**.

Requirement #4: Dates of training conducted for appropriate personnel;

The appropriate personnel from the departments of Parks and Recreation, Public Works, Gas, and Water were trained on March 29, 2023.

Requirement #5: The number of illicit discharges investigated, the screening results, and the summary of corrective actions taken to include dates and timeframe of response.

No illicit discharges were found during the screening process. JCDH received two illicit discharge complaints during this reporting period.

| Illicit Discharge Description | Corrective Actions | Complaint Date | Complaint Closure Date |
|--------------------------------------|---------------------------------|-----------------------|-------------------------------|
| Sanitary Sewer Overflow | Sewer overflow repaired | 4/19/2022 | 4/21/2022 |
| Septic Tank | Repair evaluation was completed | 8/1/2022 | 8/9/2022 |

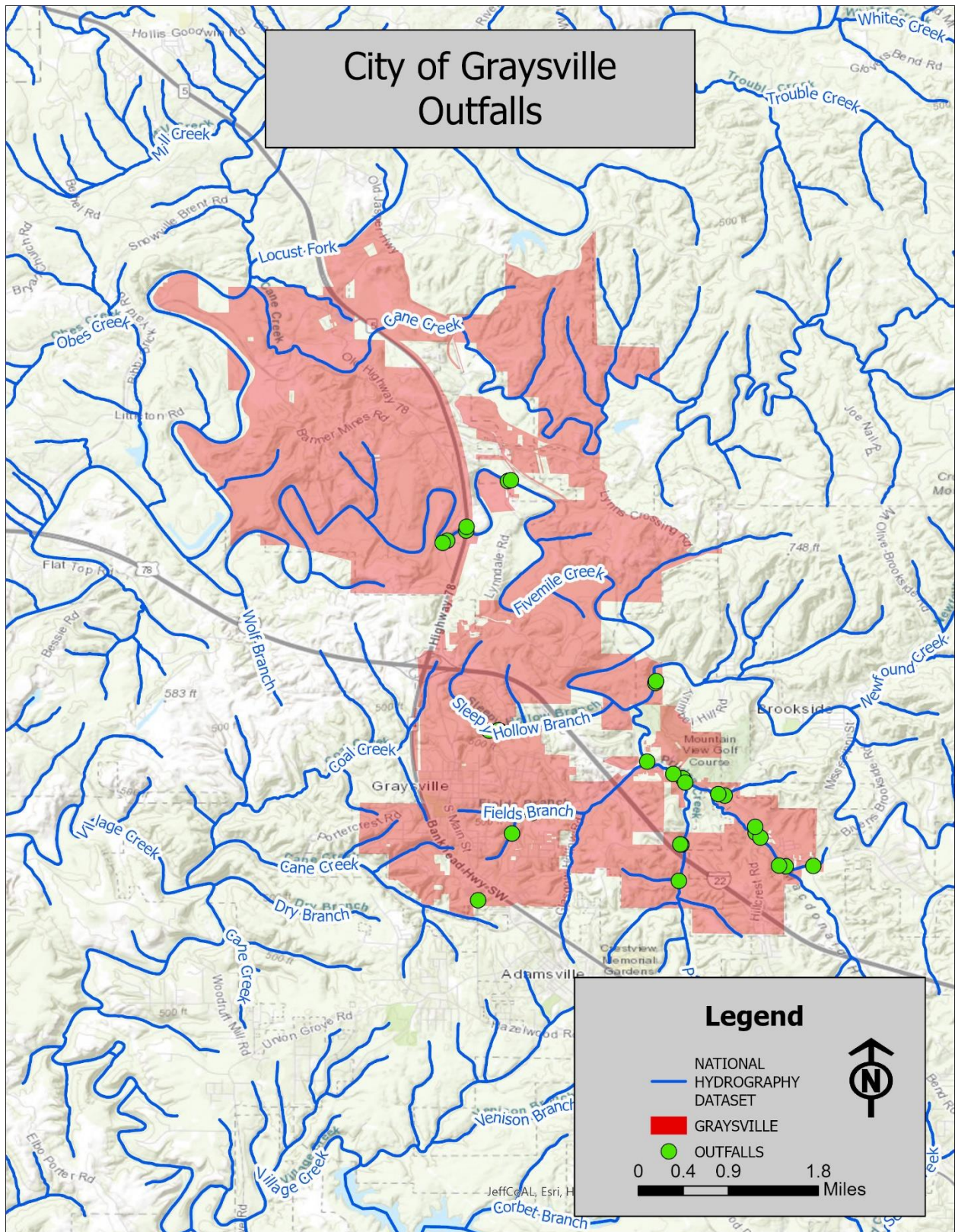


Figure 2. City of Graysville Outfalls Map

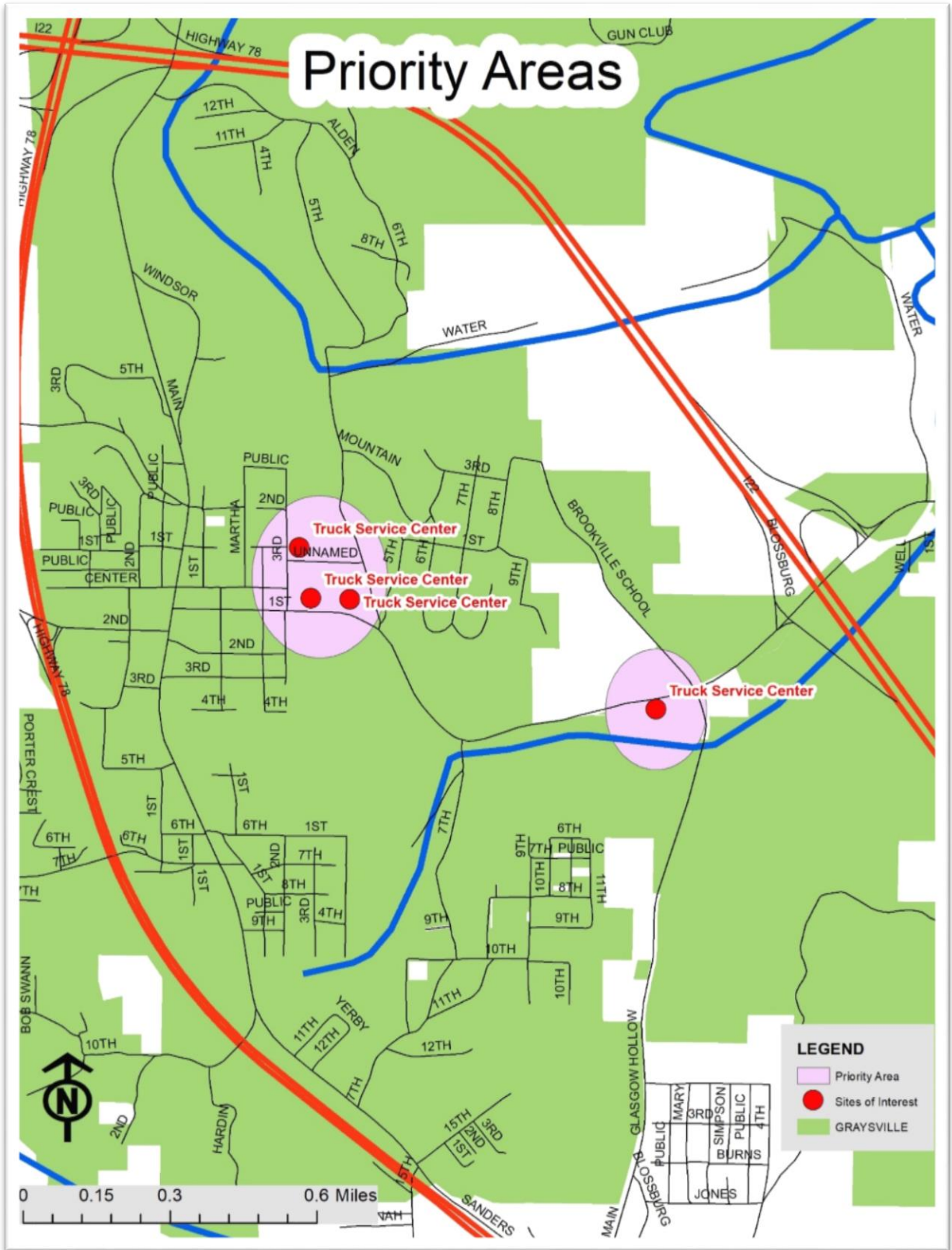


Figure 3. High Priority Sites

Construction Site Storm Water Runoff Control

Requirement #1: A description of any completed or planned revisions to the ordinance or regulatory mechanism required by the Permit and the most recent copy, or a link to the ordinance.

The City adopted a new Erosion and Sedimentation Control Ordinance on May 17, 2018. The ordinance was enacted on July 1, 2019. A copy is in **Appendix D**.

Requirement #2: List of all active construction sites within the MS4 to include the following: number of construction site inspections; number of non-compliant construction site referrals and/or enforcement actions and description of violations; number of construction site runoff complaints received; and the number of MS4 staff/inspectors trained (include copies of certifications or attendance records).

| Construction Site Description | Address | # of Construction Inspections |
|-------------------------------|------------------------------------|-------------------------------|
| Business | 4795 Hwy 78 W, Graysville 35073 | 2 |

The City had zero non-compliant construction site referrals and/or enforcement actions. The City received no construction site runoff complaints.

| Name | Certification | Certification Date |
|---------------|---------------|--------------------|
| Brian Freeman | QCI | 1/18/2023 |

A copy of the certifications in in **Appendix D**

Post-Construction Storm Water Management in New Development and Redevelopment

Requirement #1: Copies of, or link to, the ordinance or other regulatory mechanism required by the permit.

The City adopted a Post-Construction Ordinance on May 17, 2018. The ordinance was enacted on July 1, 2019. A copy is in **Appendix E**.

Requirement #2: A list of the post-construction structural controls installed and inspected during the permit year. The list shall include which post-construction structural controls installed are considered LID/GI.

The City does not have any post-construction structural controls.

Requirement #3: Updated inventory of post-construction structural controls including those owned by the Permittee.

There are no sites with structural controls located within the City limits.

Requirement #4: Number of inspections performed on post-construction structural controls.

Given there are not any structural controls in the City, no inspections were performed.

Requirement #5: Summary of enforcement actions.

There were no enforcement actions by the City of Graysville.

Pollution Prevention/ Good Housekeeping for Municipal Operations

Since January of 2015, SWMA and JCDH has have an online storm water program called the Storm Water Online Activity Record (SOAR). The program allows all SWMA cities to track the following storm water related activities: PHF application and storage; deicing application and storage; leaves and litter collection; storm water infrastructure construction, maintenance and repair; asphalt patchwork, construction projects, street sweeping, and spills.

Requirement #1: Any updates to the municipal facility inventory.

There were no new municipal facilities added to Graysville. Below is a list of the facilities:

| Facility | Address | Latitude | Longitude | Inspection |
|--|------------------------------|----------|------------|---|
| City Hall | 246 S Main St, | 33.62737 | -86.973623 | No. No potential to discharge pollutants. |
| Graysville Gas and Water | 246 S Main St, | 33.62705 | -86.973705 | No. No potential to discharge pollutants. |
| Maurice C. West Community Center Hall Yard | 171 2 nd St. SW, | 33.62655 | -86.975268 | Yes. Vehicle/ Equipment |
| Municipal Yard | 246 S Main St, | 33.62749 | -86.974191 | Yes. Vehicle/ Equipment |
| Fire Station #1 | 246 S Main St, | 33.62751 | -86.973833 | No. No potential to discharge pollutants. |
| Fire Station #2 | 1200 1 st Ave. SE | 33.62614 | -86.957125 | No. No potential to discharge pollutants. |
| Alden Park | 745 1st Ave. NE | 33.62995 | -86.961525 | No. No potential to discharge pollutants. |
| Graysville East Ball Field | 1019 9th Ave SE | 33.61864 | -86.958971 | No. No potential to discharge pollutants. |
| Big Ball Field | 424 S Main ST | 33.62486 | -86.974055 | No. No potential to discharge pollutants. |
| Community Center Ball Fields | 286 2nd St. SW | 33.62648 | -86.976049 | No. No potential to discharge pollutants. |
| Graysville Softball Complex | 903 6 th St. NE | 33.64175 | -86.966154 | No. No potential to discharge pollutants. |

Requirement #2. An estimated amount of floatable material collected from the MS4 as required by the permit.

The City's municipal personnel removed approximately **202** trash bags of litter from the MS4 during the reporting period.

Requirement #3: Any updates to the inspection plan.

There were no updates to the inspection plan. The inspection plan can be found in the SOP manual adopted by the City (**Appendix F**).

Requirement #4: The number of inspections conducted.

The City inspected the Maurice C. West Community Center Hall Yard, and the Municipal Yard seven times each for a total of 14 inspections. See the table on the previous page for more information on inspections.

Requirement #5: Any updates to the SOP of good housekeeping practices.

There were no updates to the SOP for good housekeeping practices. The SOP manual is found in **Appendix F**.

Monitoring

Fivemile Creek is on the 303(d) list for pathogens (E. coli). Currently, there is no approved TMDL and water monitoring was not required during this reporting period.

Program Evaluation

Program Strengths and Weaknesses

Overall Strengths

The City offers a variety of opportunities for residents to learn about and get involved in protecting its waterways. The education program activities include placing storm water information on utility bills, distributing informative brochures, and posting educational materials on the Storm Water webpage. The Program also receives support from the local high school which continues to show a strong commitment to protecting watersheds by teaching the students about storm water and the harmful effects of pollution and litter.

Overall Weakness

The City continues to work toward fulfilling the requirements of its storm water permit. The City has one qualifying site that is still under construction. The effectiveness of the post-construction element will be tested once this project is completed.

Future Directions

Public Education and Public Involvement on Storm Water Impacts: The City, JCDH and SWMA will continue to provide education to the public through classroom education, and multiple media outlets, including print and internet.

Illicit Discharge Detection and Elimination: The City will continue to inspect outfalls and partner with the public on illicit discharge identification. Currently, the City, JCDH, and SWMA are collaborating to review the stormdrain infrastructure of Fultondale for inventory and modeling purposes.

Construction Site Storm Water Runoff Control: The City is in the process of implementing a digital inspection format to improve documentation.

Post-Construction Storm Water Management in New Development and Redevelopment: The City will continue to offer information to developers on the benefits of green technologies and LID

Pollution Prevention/ Good Housekeeping for Municipal Operations: The City will work to improve its operations to ensure the minimization of pollutants entering the MS4.

SWMPP Effectiveness

The previous SWMPP was effective overall.

2023-2024 SWMPP Summary

The summary table of storm water controls that are planned/scheduled for the next reporting cycle can be found in **Appendix G**.