

Recertification Notice of Intent (NOI)

Regulated Small Municipal Separate Storm Sewer Systems (MS4's) General Permit ARR040000

You must complete, certify, and sign this Recertification Notice of Intent (NOI) form and return it along with the updated Stormwater Management Program (SWMP) to the Department in order to continue permit coverage under the General Permit ARR040000. You must submit this form no later than July 1, 2019. Please keep a copy of this form for your records once completed and signed.

Permittee Name	Permit Tracking Number	AFIN
City of Benton	ARR040043	88-00882

If any changes or additions need to be made to the information shown below, please update the new information in the corrections section below and/or attach documentation.

	Current Information in ADEQ's database	Corrections/Additions, If Needed
Small MS4 Physical Address	114 S. East Street	
County	Saline	
Urbanized/Core Areas	Little Rock	
Receiving Stream	Saline River	
Ultimate Receiving Stream	Ouachita River	
Contact Person & Title	David Vondran, City Engineer	Danny Ketchum, City Engr
Telephone Number	(501) 776-5938	
Cognizant Official & Title	Tim Tennant, Director of Community Development	Brad Jordan, Director Community Development
Responsible Official & Title	David Mattingly, Mayor	Tom Farmer, Mayor

Are the mailing and invoice addresses the same?

Yes or No* *If "No," please provide invoice address: _____

Additional Comments: Change Form for Cognizant & Responsible Officials is submitted with this Recertification NOI

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

I certify that I have read and will comply with all the requirements of the Regulated Small Municipal Separate Storm Sewer Systems (MS4's) General Permit ARR040000.

Responsible Official Name: TOM FARMER
 Responsible Official Title: MAYOR
 Responsible Official Signature: *Tom Farmer*
 Date: 5/9/19

Return the NOI form to the address below or send it electronically to: water_permit.application@adeq.state.ar.us or via ePortal at the following web address: <https://eportal.adeq.state.ar.us/>

NPDES Permits Section, Office of Water Quality
 Arkansas Department of Environmental Quality
 5301 Northshore Drive
 North Little Rock, AR 72118-5317

STORMWATER MANAGEMENT PROGRAM



City of Benton, Arkansas

114 S. East Street
Benton, AR 72015

Small Municipal Separate Storm Sewer Systems (MS4) Phase II MS4 Permit No. ARR040000

October 2019 (Update)

19-5806

Prepared By:



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City of Benton Stormwater Basin Map
Appendix A – Monitoring Plan

Acronyms

ADEQ	Arkansas Department of Environmental Quality
BMP	Best Management Practice
CWA	Clean Water Act
EPA	Environmental Protection Agency
IDDE	Illicit Discharge Detection and Elimination
MCE	McClelland Consulting Engineers, Inc.
MEP	Maximum Extent Practicable
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollutant Discharge Elimination System
SWMP	Storm Water Management Program
SW3P	(SWPPP) Stormwater Pollution Prevention Plan
TMDL	Total Dissolved Solids
WLA	Waste Load Allocation

1. Background and Context

The Benton Stormwater Management Program (SWMP) has been developed to provide policy and management guidance for activities affecting stormwater throughout the City of Benton. It is intended to help fulfill certain State and Federal water quality requirements and to meet local water resources management objectives. With the implementation of the policies and management practices embodied in the SWMP, the City of Benton first hopes to preserve urban stormwater quality which would otherwise negatively impact local rivers, streams, and lakes. Secondly, the City wishes to develop and preserve the urban drainage infrastructure in a manner that meets the community's needs for years to come.

While the State and Federal regulatory programs place significant emphasis on improving water quality and the health of Arkansas's watersheds, Benton, as part of the Upper Saline Watershed (08040203), Depot Creek-Saline River (080402030702) further emphasizes the need for local management of urban stormwater and waterways. It becomes even more important that the management of these resources occurs in a manner that minimizes destructive long-term impacts drainage infrastructure and the natural features that help protect water quality and control flooding.

2. Description of the Permit Area

The City of Benton (The City) currently serves a population of 35,789 people (2017) within the city limits. The geographic boundaries of the MS4 plan are the City limits and the service area for stormwater planning encompasses approximately 22.9 square miles. The City has complete authority and responsibility for planning, building, operating, maintaining and regulating the stormwater drainage system within the city limits. Therefore, the MS4 NPDES permit for which this MS4 plan is submitted covers only the area within the city limits. The area includes Saline River, Trace River, Depot Creek and the tributaries of these streams. The City's stormwater management practices have evolved to include efficient and cost-effective approaches that reduce or eliminate stormwater pollution and protect the riparian (stream bank) areas of open waterways.

3. Purpose, Scope and Areas of Focus

The purposes of the SWMP are threefold. First, the SWMP characterizes the City's entire stormwater drainage system, including both the open and piped systems, their connections to the streams, and the overall condition of the system. This characterization is necessary to address relevant State and Federal regulatory requirements and it provides baseline information on which to develop focused stormwater management strategies.

Second, the SWMP establishes goals, policies and implementation actions that will achieve the City's long-term objectives in a way that is understandable to the public, usable by City staff, and meets regulatory needs. Finally, the SWMP establishes a means for measuring, reporting and adaptively managing the City's water resources, by presenting benchmarks that will ensure meaningful progress, as well as ensuring compliance with applicable laws and permit requirements.

The SWMP addresses stormwater quality management policies and management practices that are, and/or will be implemented in the City. The scope of the SWMP is determined primarily by the Federal MS4 permit requirements, but is intended to address local water resources issues as well. These areas of focus in the SWMP include:

- **Pollution incidents and unlawful (illicit) discharges to the City's stormwater drainage system.** These discharges can be systematic (recurring) or episodic (occasional or one-time) discharges, and include pollutant runoff from parking lots, discharges from industrial outfalls, accidental spills, poor construction site management, and a variety of ways people dump pollutants into street gutters or catch basin.
- **On-site management of stormwater to reduce the quantity of stormwater and pollution entering the drainage system.** Similar to illicit discharges, events that cause flooding, system surcharges, or ongoing pollutant loading can occur downstream from the city limits, and originate from a variety of causes. These include inadequacies in the type and design of infrastructure, inadequate maintenance, insufficient erosion and/or sediment control practices, and increases in impervious area without provision for on-site infiltration of stormwater into the ground. The City regulates these issues through implementation of the Arkansas Municipal League Code within the city limits, CODE 2013-01.
- **Reduction and prevention of pollution at City facilities and resulting from City activities and business practices.** The City provides services with a potential for creating water pollution, erosion, and sedimentation. These include field activities such as ditch cleaning and excavation/maintenance activities, as well as activities at City facilities, such as vehicle washing and maintenance, painting, and material handling. The Federal NPDES SWMP requires the City to implement pollution prevention practices that reduce or eliminate stormwater pollution from City activities.
- **Public education geared towards broad community stewardship of water resources.** The Federal NPDES SWMP places significant emphasis on public education as part of the long term solution to stormwater pollution. As such, education is a required element of the SWMP. The long-term success of the City's efforts will hinge on increased awareness and stewardship throughout the community. The SWMP will result in formal, organized educational and outreach efforts that are targeted broadly throughout the City.
- **Public awareness and involvement in the City's Stormwater Management Program.** Broad awareness and participation in the development and implementation of the SWMP by residents and local area businesses is a key component to ensure effectiveness of the SWMP. The SWMP includes a public involvement component in its development that meets the Federal NPDES program.
- **ADEQ required Municipal Separate Storm Sewer System (MS4) Plan elements.** The NPDES Stormwater Program requires that the City submit a MS4 plan in order to acquire a MS4 permit to legally discharge stormwater to the waters of the U. S.

The Federal rules and, therefore, ADEQ's permit requirements, direct that the City's MS4 plan address six minimum areas, which are termed "Minimum Control Measures." These areas are broadly titled in the rules as follows:

1. Public Education and Outreach on Stormwater Impacts;
2. Public Involvement/Participation;
3. Illicit Discharges Detection and Elimination;
4. Construction Site Stormwater Runoff Control;
5. Post-Construction Stormwater Management in New Development and Redevelopment;
and
6. Pollution Prevention/Good Housekeeping for Municipal Operators.

Under each of these areas described above, the City's MS4 plan must contain the following information:

- The structural and nonstructural Best Management Practices (BMPs) that the permittee or another entity will implement for each of the stormwater Minimum Control Measures;
- The measurable goals (Benchmarks) for each of the BMPs including, as appropriate, the months and years in which the permittee will undertake required actions, including interim milestones and the frequency of the action; and
- The person or persons responsible for implementing or coordinating the BMPs for the permittee's MS4 plan.

In addition to the requirements listed above, the permittee must provide a rationale for how and why each of the BMPs is selected and measurable goals for the permittee's SWMP.

Stormwater Best Management Practices (BMPs) is a *catch-all* term for approaches to managing stormwater that reduce the negative impacts of runoff on the receiving streams. While the term has become widely used by the regulatory agencies and throughout the stormwater management industry, it does not imply that each BMP is necessarily the "Best" at achieving a particular stormwater management objective. BMPs are alternatives to practices that reduce the water quality and flow management functions and benefits of the open drainage system such as piping, filling or hardening open drainage ways. BMPs include, but are not limited to:

- a. physical structures or created natural features such as wetlands or ponds that improve water quality and/or attenuate flow;
- b. maintenance or construction practices that prevent erosion, control sedimentation, and reduce pollution entering runoff;
- c. educational strategies that inform the public, developers, business/industry, etc. on stormwater pollution prevention;
- d. regulations and enforcement programs that protect water quality;
- e. protection of open drainage ways for stormwater treatment and conveyance, and maintaining adjacent (riparian) buffers to provide natural stormwater filtration, cooling and long term channel stability and other stormwater management functions; and the avoidance of piping, filling, or deteriorating the condition of open drainage ways.

4. Overview of Benton's Stormwater Drainage Systems

The City is responsible for implementing surface water management activities within its boundaries, including the planning, design, construction, operation, and maintenance of the stormwater drainage system. The City performs all operation and maintenance on the public drainage system that is designed and constructed to City standards and located within easements or rights-of-way, or real property that has been conveyed or dedicated to the City. The City also maintains open channels throughout the city, and public outfalls to natural streams within the City's jurisdiction. The geographic area covered by this program includes approximately 22.90 square miles.

5. Stormwater Drainage Basin Characterization

The City's stormwater drainage system has two major drainage routes, Saline River and Depot Creek including the tributaries of these streams. The City is further broken down into several separate collector ditches that feed into these streams. A drainage basin can be described as a geographic area within which stormwater drains from many small systems converge on a larger drainage way, ultimately culminating in outfalls to the major drainage way. The character and condition of the drainage way varies significantly throughout the basins, depending on surrounding land uses and contributing drainages.

6. Goals, Policies & Implementation Actions

This section provides overall guidance to the City in performing stormwater management activities in a manner consistent with State and Federal laws, while meeting local goals and the long-term outcomes the City hopes to achieve. The following goals are derived from long-term key outcomes that have been reviewed. The policies provide specific direction, consistent with the local goals, and State and Federal requirements. Implementation actions include BMPs discussed in detail in the MS4 plan and other actions needed to achieve local objectives. The work plan for completion of Implementation Actions is in the SWMP Implementation Action Summary.

Goal 1: Protect citizens and property from flooding

Policies

- 1.1 Maintain surface drainage in the City to reduce the threat of flooding, through proper maintenance of the stormwater drainage system infrastructure, with practices that are protective of water quality.
- 1.2 Through the development review process, ensure that new development incorporates adequate stormwater management infrastructure to avoid downstream capacity and water quality problems.
- 1.3 Preserve open stormwater drainage where feasible, to best accommodate peak storm flows, maintain flood storage capacity, and promote water quality.
- 1.4 Adhere to standards, policies, and practices which comply with Federal Emergency Management Agency (FEMA) Flood Management Program requirements to ensure that the City maintains flood insurance coverage under this program.

Implementation Actions

- 1.a Continue evaluation of City maintenance practices and implement appropriate BMPs to assure that the City adequately maintains the stormwater drainage system capacity in an environmentally responsible manner.
- 1.b Evaluate and refine the City's drainage program, including educational outreach, inspection, and enforcement components to reduce the negative stormwater impacts from land alteration, erosion, sedimentation, and excessive runoff.
- 1.c Implement BMPs consistent with NPDES Minimum Control Measure #1, Public Education and Outreach on Stormwater Impacts, to ensure that the public is aware of the importance of preventing pollution from entering the streams and water bodies of the State.
- 1.d Implement BMPs consistent with NPDES Minimum Control Measure #4, Construction Site Stormwater Control, to minimize or eliminate erosion and sedimentation in the stormwater drainage system.

- 1.e Implement BMPs consistent with NPDES Minimum Control Measure #5, Post Construction Stormwater Management for New Development and Redevelopment, to ensure that new development is in compliance with flow-regulating management practices, such as detention ponds, on-site stormwater storage, etc.
- 1.f Implement BMPs consistent with NPDES Minimum Control Measure #6, Pollution Prevention in Municipal Operations, to ensure adequate maintenance of the stormwater system.

GOAL 2: Improve surface and sub-surface waters for aquatic life and other beneficial uses

Policies

- 2.1 The City will monitor and implement practices and regulatory programs with the objective of improving surface and groundwater quality at a minimum, meet State water quality standards, adequately protect threatened and endangered wildlife, and meet the State beneficial use guidelines.
- 2.2 The City will maintain its open channels and waterways in a manner that is protective of the natural stormwater management and habitat functions for the benefit of the citizens of the City, local wildlife, including threatened or endangered species, and future generations.

Implementation Actions

- 2.a Promote pollution protection educational efforts, including signage, development project review, and public outreach.
- 2.b Enhance erosion and illicit discharge detection and compliance efforts, including permitting and Code enforcement.
- 2.c Implement BMPs consistent with NPDES Minimum Control Measure #1, Public Education and Outreach on Stormwater Impacts, to enhance citizens' and businesses' knowledge regarding water quality regulations as well as the benefits to the community from properly functioning waterways.
- 2.d Implement BMPs consistent with NPDES Minimum Control Measure #3, Illicit Discharges Detection and Elimination, to eliminate or minimize toxic discharges from business and industry.
- 2.e Implement BMPs consistent with NPDES Minimum Control Measure #4, Construction Site Stormwater Runoff Control, to minimize sedimentation and channel degradation from construction sites.
- 2.f Implement BMPs consistent with NPDES Minimum Control Measure #5, Post-Construction Stormwater Management for New Development and Redevelopment, to ensure long-term functioning of newly-developed sites.
- 2.g Implement BMPs consistent with NPDES Minimum Control Measure #6, Pollution Prevention in Municipal Operations, to ensure that the stormwater drainage system is maintained in properly functioning condition.

GOAL 3: *Preserve and maintain surface waters, wetlands, and riparian areas*

Policies

- 3.1 Through the development review process, the City will ensure that development is protective of significant open waterways, wetlands, and riparian areas.
- 3.2 The City will implement permitting programs, educational outreach, compliance inspections and enforcement activities as needed to reduce erosion, sedimentation, illicit discharges, and other pollution impacts to the City's waterways.

Implementation Actions

- 3.a The City will review and refine its drainage program as necessary, which addresses erosion, sedimentation, and the impacts of land alteration, including permitting, inspections, technical educational outreach, and enforcement.
- 3.b The City will review development proposals for impacts on open drainage ways, wetlands, and riparian areas, and protect the functions and benefits of these areas as provided for in the Code of Ordinances 2013-01.
- 3.c The City will work cooperatively with citizens, businesses, and agencies to protect and improve surface waterways, seek opportunities for stewardship partnerships, further enhance educational opportunities, and continue participation in intergovernmental work groups.
- 3.d The City will implement and continue to refine/improve BMPs for City activities with the potential to impact water quality and/or the functions of waterways, wetlands, and riparian areas.
- 3.e The City will implement BMPs consistent with NPDES Minimum Control Measure #4, Construction Site Stormwater Runoff Control, to reduce or eliminate sedimentation from construction sites as a contributor to poor water quality and quantity management.
- 3.f The City will implement BMPs consistent with NPDES Minimum Control Measure #5, Post-Construction Stormwater Management for New Development and Redevelopment, so new development at a minimum maintains the functioning of the stormwater drainage system and doesn't contribute to future degradation.
- 3.g The City will implement BMPs consistent with NPDES Minimum Control Measure #6, Pollution Prevention in Municipal Operations, which is critical to maintaining properly functioning wetland and riparian areas and open channels.

GOAL 4: *To further Citizens, Businesses, and Industries understanding of the need to protect water quality*

Policies

- 4.1 The City will develop targeted education and outreach and technical assistance programs regarding practices and obligations for keeping debris and pollutants out of

the stormwater drainage system and train stakeholder groups in appropriate erosion control and sediment prevention practices, as well as stormwater management BMPs.

- 4.2 The City will seek to form partnerships with neighborhood groups, schools and community organizations interested in providing stewardship of local waterways.
- 4.3 The City will develop, implement, and enforce appropriate building, design, and Municipal Codes to address water quality compliance issues, including pollution, habitat, and aesthetic issues, to encourage the development of urban waterways that are positive amenities in the community.

Implementation Actions

- 4.a The City will continue to support outreach and education efforts regarding water quality, riparian and wetland areas, including business, contractor, and developer outreach programs to educate these parties about their impacts on stormwater quality.
- 4.b The City will continue to maintain enforcement and compliance activities, including inspections, technical assistance, and Code enforcement.
- 4.c The City will implement BMPs consistent with NPDES Minimum Control Measure #1, Public Education and Outreach on Stormwater Impacts, to engage the public in the efforts to create positive urban amenities.
- 4.d The City will implement BMPs consistent with NPDES Minimum Control Measure #3, Illicit Discharges Detection and Elimination, to ensure that waterways are **safe, meet State water quality standards, and can function as positive amenities.**

Goal 5: Urban drainage ways become community amenities

Policies

- 5.1 The City will conduct education and outreach activities to appropriate target groups to increase understanding of the importance of maintaining safe and clean drainage ways, and to seek volunteers to be caretakers for water features near them.
- 5.2 The City will, through its Code of Ordinances, protect existing significant open waterways and encourage site planning and landscaping that enhances the attractiveness and natural functions of the water features.
- 5.3 The City will maintain urban drainage ways in a manner that provides for safe and attractive conditions within the limits of its fiscal constraints.

Implementation Actions

- 5.a Enhance the City's erosion control program, including educating developers and the community regarding the positive aspects of open waterways to promote acceptance, and integrating effective compliance and enforcement components.
- 5.b Provide adequate funding within the City's restraints for public maintenance of the stormwater drainage system, and ensure ongoing maintenance of private stormwater features through development agreements.
- 5.c Increase educational outreach to schools to increase awareness of children regarding the need to keep litter and pollutants out of urban drainage ways.
- 5.d Implement all six of the NPDES Minimum Control Measure BMPs. Implementing all of the provisions of the SWMP will ultimately result in improved water quality and

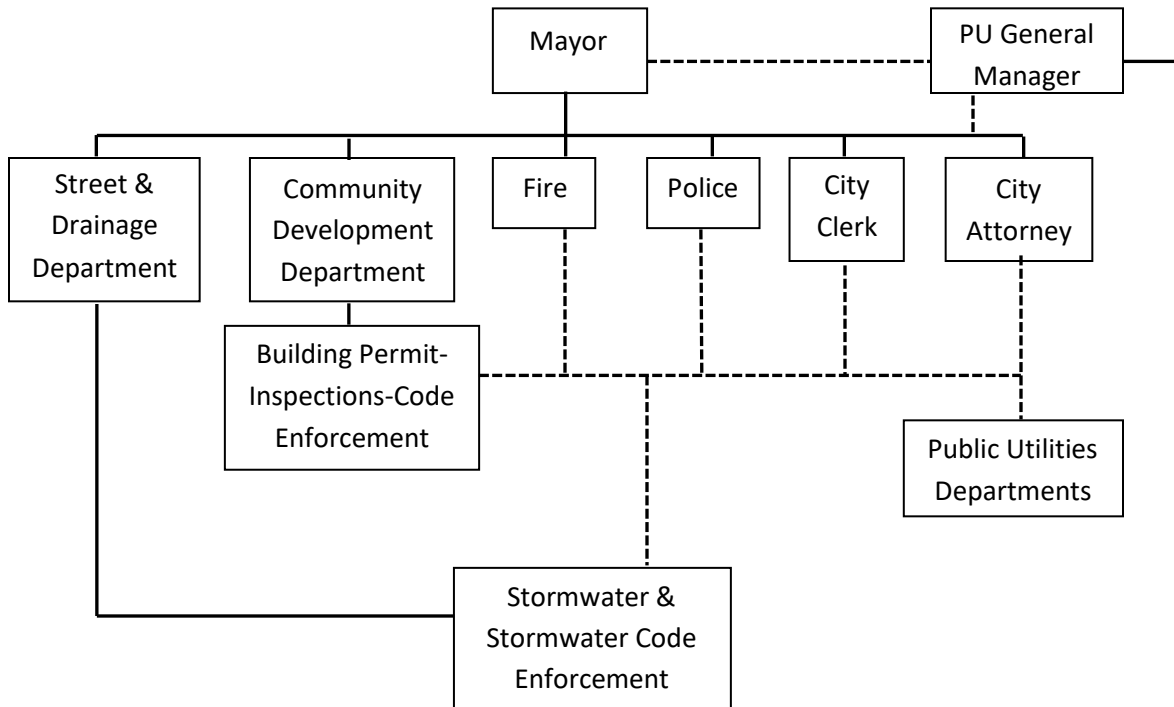
quantity management, improved habitat and resource protection, and, ultimately, enhance urban waterways as desirable community amenities.

7. Benton’s NPDES MS4 Program

City Stormwater Management Program Responsible Parties

The City is responsible for implementing surface water management activities within its boundaries, including the planning, design, construction, operation, and maintenance of the stormwater drainage system. In response to the NPDES Phase II stormwater requirements, the City has developed an MS4 plan addressing each of the six required Minimum Control Measures, as specified in the Federal-NPDES Phase II rules. The City’s stormwater management program is the responsibility of the Street & Drainage Department. However, the implementation of the City’s MS4 plan will extend throughout the City organization by implementing a Stormwater Pollution Prevention Team with representatives from Police, Fire, Planning, Code Enforcement, Public Works, and Water Departments. Each Department’s task would be to recognize stormwater issues of their facility, the fieldwork they do, and documenting data for both positive and negative events that are stormwater related that previously went unnoted. Negative findings will be enforced by various Departments of City Enforcement and the City Code of Ordinances.

Organization Chart



8. NPDES Phase II BMP Requirement

Specific BMPs are proposed for each Minimum Control Measure, which are intended to support the reduction of discharges of pollutants in stormwater runoff to the maximum extent practicable (MEP) as required by the Federal NPDES Phase II rules. In this section, a summary sheet is provided for each Minimum Control Measure, which includes a list of the selected BMPs, the rationale for their development and selection, and a summary of the measurable goals and implementation schedule. The summary sheet is followed by a fact sheet for each of the selected BMPs. Together, the summary sheets and the fact sheets provide the following information in accordance with the Federal rules:

1. A brief description of the BMP;
2. Measurable goals.
3. Justification
4. A list of the responsible parties for the BMP implementation;

A. **Minimum Control Measure #1 - Public Education and Outreach on Stormwater Impacts**

REGULATORY REQUIREMENTS

Regulation 40 CFR 122.34(b)(1): "The permittee must implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff."

PUBLIC EDUCATION (PE) SELECTED BMPs WITH GENERAL DESCRIPTION

PE-1: Public education on stormwater through utility inserts

General Description: Information on BMP for homeowners and businesses in the use of fertilizer, removal, and disposal of leaves, clippings, landscaping to improve erosion/sediment control and also washing of vehicles.

PE-2: Stormwater education for school children

General Description: Provide information for children so that they will also be conscious of their parent's decisions to control runoff in the stormwater drainage system.

PE-3: Provide Stormwater & Floodplain Education materials and related links on the city of Benton's web site

General Description: Increase the amount and access of information available to the public via videos and written materials uploaded to the City's website.

MEASURABLE GOALS AND JUSTIFICATIONS

PE-1: Public education on stormwater through utility inserts

Measurable Goal: The City has approximately 12,000 water customers. The City will produce and distribute a utility insert on stormwater and what the public can do to prevent stormwater impacts. This City will begin installing the inserts during Year 1 and repeat once every six months thereafter. Benton's goal is to make 20,000 impressions per year via a utility insert program.

Justification: Educating the general public and businesses on stormwater and water quality practices, including water conservation measures, through a utility insert will directly inform a majority of the population

PE-2: Stormwater education for school children

Measurable Goal: A minimum of 50 percent of all school children (K-12) will be educated every two years on stormwater pollution by providing the School Districts in the jurisdiction of the City with materials such as videos, brochures, live presentations, and other media.

Justification: Educating school children on stormwater and water quality practices, including water conservation measures, will help promote better public awareness and educate future generations.

PE-3: Provide Stormwater & Floodplain Education materials and related links on the city of Benton's web site

Measurable Goal: Provide local video and written materials for use in a wide array of home and business education for family members and employees.

Justification: Primary target is the homeowner and landscapers but the materials also serve to educate all community participants including contractors, developers, and business owners.

RESPONSIBLE PARTIES

The City of Benton has elected Street & Drainage Department to be the responsible party for PE-1, PE2, and PE-3.

B. Minimum Control Measure #2 – Public Involvement/Participation

REGULATORY REQUIREMENTS

Regulation 40 CFR 122.34(b)(2): The permittee shall, at a minimum, comply with State and local public notice requirements when implementing a public involvement/ participation program.

PUBLIC INVOLVEMENT (PI) SELECTED BMPs

PI-1: Storm drain clearing

General Description: Storm drain clearing is an essential operation to sustain the storm sewer system and provide that the system runs optimally.

PI-2: Volunteer monitoring

PI-3: Engage Homeowner associations and POAs

PI-4: BMP regarding erosion and sediment control & SW3P education for developers and Contractors on all projects.

MEASURABLE GOALS AND JUSTIFICATIONS

PI-1: Storm drain clearing

Measurable Goal: Coordinate with all citizen groups that initiate a new program's "Adopt A Street" Group for recurring cleanup and clearing of drainage systems working with citizen group "Benton Matters".

Justification: "KEEP IT CLEAR TO THE RIVER" As an integral component of the "ADOPT A STREET" and "BENTON MATTERS" and various Church and Community Programs.

PI-2: Volunteer monitoring

Measurable Goal: This is a communication mechanism to record complaints, establish a record ensure a response, and monitor results of citizen complaints through our Citizenserve automated system and working with Utility departments and Aldermen.

Justification: Notify the City Staff when stormwater drainage problems exist or anyone may be causing a potential issue.

PI-3: Engage Homeowner associations and POAs

Measurable Goal: Establish relationship with each existing POA within City Limits and extended contacts to Planning.

Justification: The purpose is to improve direct linkages with communities and groups that already exist and have a vested interest in improving and maintaining their neighborhoods and their surrounding areas/environment. Take advantage of established email groups such as "Nextdoor Mail Groups", Facebook, and Twitter, etc. to not only share information but to also receive information.

PI-4: BMP regarding erosion and sediment control & SWPPP education for developers and Contractors on all projects

Measurable Goal: Preliminary discussions occur at Initial review with developers, engineers and builders referencing requirements within **Ordinance 48 of 2019**. We created a checklist to validate discussions and that a plan is developed prior to approvals being made.

Justification: Increase awareness and BMPs to ensure each SWPPP is adequate or that enhancements are defined prior to construction beginning. This interaction targeted to all land development operations, homeowners, businesses/operations to ensure on-site practices are improved, requirements are understood, and clarify enforcement actions during inspections.

RESPONSIBLE PARTIES

The City of Benton has elected that Stormwater Code Enforcement and Community Code Enforcement shall be the responsible party for PI-1 and PI-2, PI-3, and PI-4.

C. Minimum Control Measure #3 – Illicit Discharge Detection and Elimination

REGULATORY REQUIREMENTS

Regulation 40 CFR 122.34(b)(3): The permittee must:

- 1. Develop, implement and enforce a program to detect and eliminate illicit discharges [as defined at 40 CFR 122.26(b)(2)] into the permittee's small MS4.*
- 2. Develop, if not already completed, a storm sewer system map, showing the location of all outfalls and the names and location of all waters of the United States that receive discharges from those outfalls;*
- 3. To the extent allowable under State or local law, effectively prohibit, through ordinance, or other regulatory mechanism, non-storm water discharges into the permittee's storm sewer system and implement appropriate enforcement procedures and action. Possible sanctions include non-monetary penalties (such as stop-work orders), fines, bonding requirements, and/or permit denials for non-compliance;*
- 4. Develop and implement a plan to detect and address non-storm water discharges, including illegal dumping, to the permittee's system; **Appendix A outlines the steps to address ADEQs requirements for measuring flows and loading at outfalls.***
- 5. Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste;*
- 6. Address the following categories of non-storm water discharges or flows (i.e., illicit discharges) only if the permittee identifies them as significant contributors of pollutants to the permittee's small MS4: water line flushing, landscape irrigation, diverted stream flows, rising groundwaters, uncontaminated groundwater infiltration (as defined at 40 CFR 35.2005(20)), uncontaminated pumped groundwater, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering, individual residential car washing, flows from riparian habitats and wetlands, dechlorinated swimming pool discharges, and street wash water (discharges or flows from firefighting activities are excluded from the effective prohibition).*
- 7. The permittee must also develop a list of other similar occasional incidental non-storm water discharges (e.g. non-commercial or charity car washes) 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 MS4, either because of the nature of the discharges or conditions the permittee has established for allowing these discharges to the permittee's MS4 (e.g., a charity car wash with appropriate controls on frequency, proximity to sensitive water bodies, BMPs on the wash water). The permittee must document in the permittee's stormwater management program plan 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 substantial amounts of pollutants to the permittee's MS4.*
- 8. The permittee must develop a process to respond to and document complaints relating to illicit discharges.*

ILLICIT DISCHARGE (IDDE) SELECTED BMPs

IDDE-1: Ordinance or Other Regulatory Mechanism

IDDE-2: Storm Sewer System Map

IDDE-3: IDDE Plan. See Appendix A for specifics on measuring flow and TDS loading

IDDE-4: Dry-Weather Screening of Outfalls

IDDE-5: Identification of allowable non-stormwater discharges

MEASUREABLE GOALS AND JUSTIFICATIONS

IDDE-1: Ordinance or Other Regulatory Mechanism

Measurable Goal: **Ordinance 48 of 2019** is being updated and Stormwater Fee increased to increase regulatory responsibilities.

Justification: Ordinances and regulatory mechanisms ensure that BMP measures are implemented.

IDDE-2: Storm Sewer System Map

Measurable Goal: Study and GIS data completed in fall of 2018. Changes are being made and incorporated into tools for monitoring.

Justification: Storm Sewer System Map is developed to satisfy regulatory requirement 2 above.

IDDE-3: IDDE Plan

Measurable Goal: Included within **Ordinance 48 of 2019** specifically Section III & IV of this Ordinance.

Justification: An IDDE Plan is developed to satisfy regulatory requirement 4 above.

IDDE-4: Dry-Weather Screening of Outfalls

Measurable Goal: 20% of outfalls checked for flow annually. Additionally, two specified sites will be check quarterly for flow and TDS. **See Appendix A for clarification.**

Justification: Outfalls are checked for illicit drainage during dry weather. 20% of outfalls will be checked annually. **Appendix A covers ADEQs request to measure flows and TDS loading at specified outfalls.**

IDDE-5: Identification of allowable non-stormwater discharges

Measurable Goal: **Ordinance 48 of 2019** defines allowable and non-allowable discharges Code Enforcement staff determines if discharge is in agreement with the requirements

Justification: Non-stormwater discharges must be monitored to confirm industries are in compliance of state and federal regulations.

RESPONSIBLE PARTIES

The City of Benton has elected Street & Drainage Department to be the responsible party for IDDE-1, IDDE-2, IDDE-3, IDDE-4. and IDDE-5.

D. Minimum Control Measure #4 - Construction Site Storm Water Runoff Control

REGULATORY REQUIREMENTS

Regulation 40 CFR 122.34(b)(4):

The permittee shall develop, implement, and enforce a program to reduce pollutants in any stormwater runoff to the small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of stormwater discharges from construction activity disturbing less than one acre must be included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. For stormwater discharges associated with small construction activity in accordance with 40 CFR 122.26(b)(15)(i), the permittee will develop, implement, and enforce a program to reduce pollutant discharges from such sites. The permittee's program must include the development and implementation of, at a minimum:

- 1. An ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under State, or local law;*
- 2. Requirements for construction site operators to implement appropriate erosion and sediment control best management practices;*
- 3. 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;*
- 4. Procedures for site plan review which incorporate consideration of potential water quality impacts;*
- 5. Procedures for receipt and consideration of information submitted by the public, and*
- 6. Procedures for site inspection and enforcement of control measures.*

CONSTRUCTION SITE RUNOFF CONTROL (CSRC) SELECTED BMPs

- CSRC-1: Ordinance or Other Regulatory Mechanism**
- CSRC-2: Sediment and Erosion Control Requirements**
- CSRC-3: Complaint Process**
- CSRC-4: Site Plan Review Procedures**
- CSRC-5: Site Inspection Procedures**
- CSRC-6: Enforcement Procedures**

MEASURABLE GOALS AND JUSTIFICATIONS

CSRC-1: Ordinance or Other Regulatory Mechanism

Measurable Goal: Contained in current **Ordinance 48 of 2019**.

Justification: Ordinances and regulatory mechanisms ensure that BMP measures are implemented.

CSRC-2: Sediment and Erosion Control Requirements

Measurable Goal: Erosion Control Planning, silt fence placement/building, and SWPPP reports and maintenance/monitoring are stressed at Pre-submission meetings. Documents are shared with code enforcement & other departments.

Justification: Erosion control serves to educate the construction industry on the proper installation and design of best management practices that will hopefully reduce erosion and prevent sediment from entering the City's stormwater management system.

CSRC-3: Complaint Process

Measurable Goal: 100% Response to all filed complaints.

Justification: A complaint process allows for feedback to be reported by the general public as well as industry. This allows for more feedback on the quality of water runoff at any given time or location.

CSRC-4: Site Plan Review Procedures

Measurable Goal: 100% of all site & development plans are reviewed.

Justification: Construction site plans are reviewed to verify that proper site planning is being implemented to minimize the impact on the City's storm sewer system.

CSRC-5: Site Inspection Procedures

Measurable Goal: 100% of all construction sites inspected.

Justification: Site inspection procedures further verify reviewed and approved site planning has been followed.

CSRC-6: Enforcement Procedures

Measurable Goal: Enforcement actions carried out on 100% of violations.

Justification: Enforcement procedures keep construction professionals in compliance with local, state, and federal regulations. Concise procedures also streamline the enforcement process and allow for effective handling of violations.

RESPONSIBLE PARTIES

The City of Benton has elected Street & Drainage Department to be the responsible party for all with support from Community Development for CWRC-5 on new permitted development and conducting construction site inspections.

E. Minimum Control Measure #5 - Post Construction Storm Water Management in New Development and Redevelopment

REGULATORY REQUIREMENTS

Regulation 40 CFR 122.34(b)(5): The permittee must:

- A. Develop, implement, and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the small MS4. The program must ensure that controls are in place that would prevent or minimize water quality impacts;*
- B. Develop and implement strategies which include a combination of structural and/or non-structural best management practices (BMPs) appropriate for the community;*
- C. Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under State or local law; and*
- D. Ensure adequate long-term operation and maintenance of BMPs.*

DEVELOPMENT STANDARD (DS) SELECTED BMPs

DS-1: Ordinance or other Regulatory Mechanism

DS-2: Post-Construction Requirements

DS-3: Site Plan Review Procedures

DS-4: Site Inspection Procedures

DS-5: Enforcement Procedures

DS-6: Long-Term O&M Plans/Agreements

MEASURABLE GOALS AND JUSTIFICATIONS

DS-1: Ordinance or other Regulatory Mechanism

Measurable Goal: Revisions to **Ordinance 48 of 2019** included references to post-construction management requirements. We observe silt & erosion control until ground cover is established.

Justification: Ordinances and regulatory mechanisms ensure that BMP measures are implemented. Additional stormwater staff with code enforcement credentials are being added. The City's stormwater fee per resident is being increased.

DS-2: Post-Construction Requirements

Measurable Goal: 100% of yards in place.

Justification: All yards must be in place prior to issuance of Certificate of Occupancy. This alleviates the need for post-construction requirements on areas under construction.

DS-3: Site Plan Review Procedures

Measurable Goal: 100% of applicable sites requiring post-construction BMPs reviewed.

Justification: Construction site plans are reviewed to verify that proper site planning was implemented to minimize the impact on the City's storm sewer system.

DS-4: Site Inspection Procedures

Measurable Goal: 100% of cite inspections completed.

Justification: Site inspection procedures for post-construction verifies reviewed and approved site planning was completed.

DS-5: Enforcement Procedures

Measurable Goal: 100% of violation letters and enforcement actions were responded to.

Justification: Enforcement procedures keep construction professionals in compliance with local, state, and federal regulations. Concise procedures also streamline the enforcement process and allow for effective handling of violations.

DS-6: Long-Term O&M Plans/Agreements

Measurable Goal: 100% of long-term site plans developed and agreed on.

Justification: Enforcement review & improved communication with developers will result in faster corrective actions, and improved response/compliance.

RESPONSIBLE PARTIES

The City of Benton has elected Street & Drainage Department to be the responsible party for all Stormwater related issues.

F. Minimum Control Measure #6 - Pollution Prevention/Good Housekeeping for Municipal Operations

REGULATORY REQUIREMENTS

Regulation 40 CFR 122.34(b)(6): The permittee must:

- A. *Develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations; and*
- B. *Using training materials that are available from EPA, ADEQ, other organizations, or developed in-house, the program must include employee training to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance.*

OPERATION AND MAINTENANCE (OM) BMPs

OM-1: Employee Training Program

MEASURABLE GOALS AND JUSTIFICATIONS

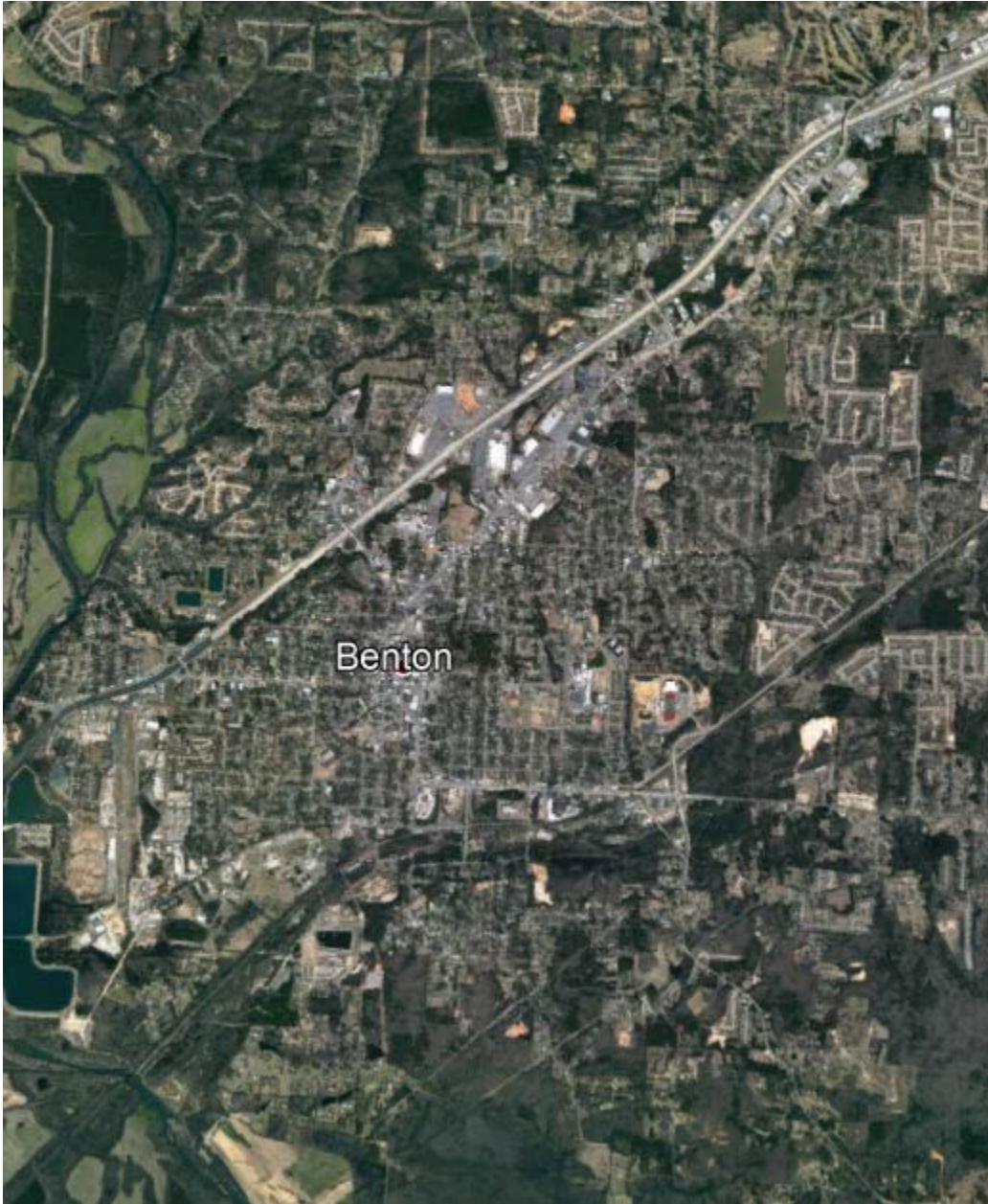
OM-1: Employee Training Program

Measurable Goal: In the first year, develop an annual pollution prevention workshop for all municipal employees whose duties have a direct impact on the city's MS4 at public facilities. Once per year, hold an additional workshop for new employees, crew managers, and all other employees whose day-to-day work activities have the potential to impact stormwater quality. Achieve a 40% reduction in fertilizer and pesticide use and a 25% reduction in water use after 3 years. Presently the City has a design for a wash bay for all city vehicles.

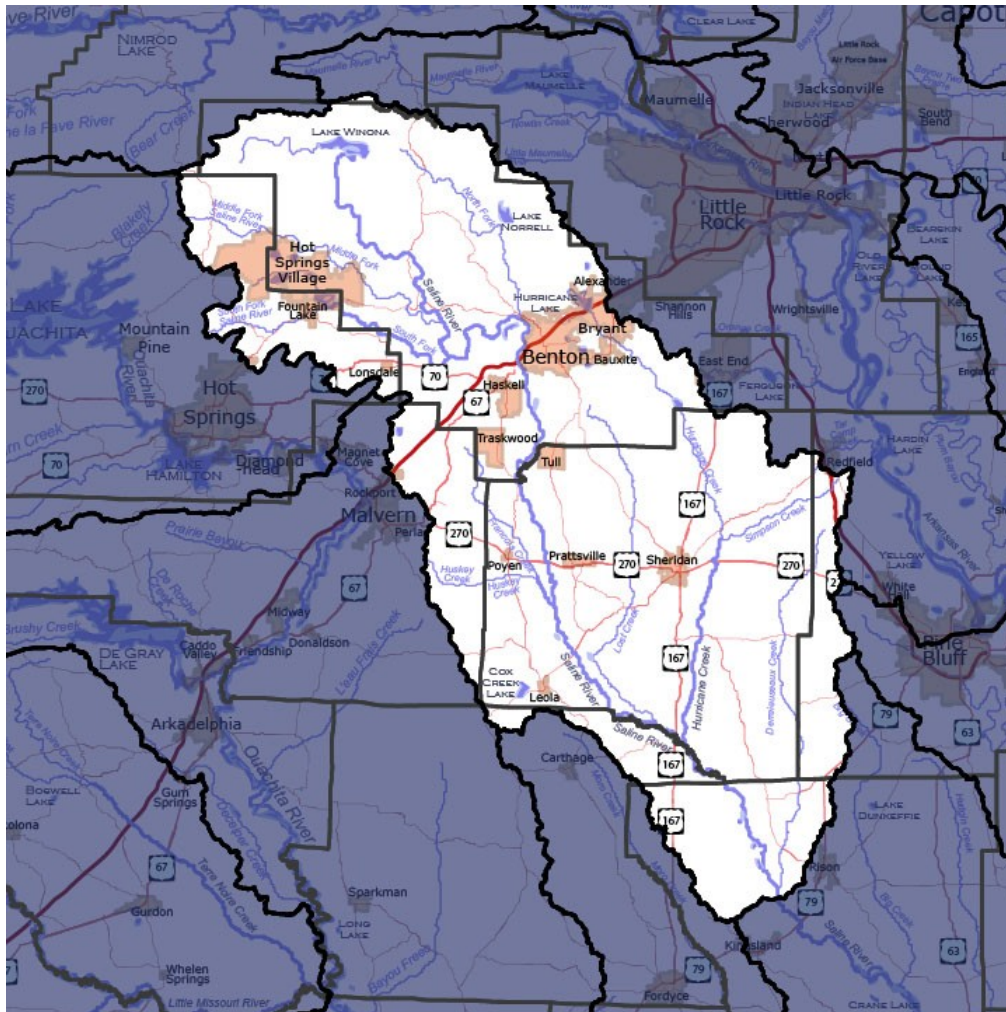
Justification: Grounds maintenance and landscaping crews use substantial quantities of water and artificial chemicals, the combination of which has led to elevated levels of nutrients and toxins in receiving waters. The workshop will emphasize the benefits of recycling organic material; reducing the use and planning the timing of application of chemicals and water; selecting native vegetation to reduce water, nutrient, and maintenance demand; and achieving cost savings through reduced labor and material inputs.

RESPONSIBLE PARTIES

The Street & Drainage Department and MCE is responsible for preparing and providing training to City staff. Each City Department (Fire, Police, Parks, etc.) is responsible for applying the training in the field and reporting illicit discharges.



Aerial Map of City of Benton



Watershed Map of City of Benton

