

**City of Austin**

# **Stormwater Management Plan**

**October 2013**

**Prepared By:**



**WATER • WASTEWATER • LAND PLANNERS • STORM WATER • SURVEYORS**

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## **Background and Context**

The City of Austin Stormwater Management Plan has been developed to provide policy and management guidance for activities affecting stormwater throughout the City of Austin. This plan is intended to assist in fulfilling State and Federal water quality requirements and meet local water resource management objectives. Implementation of these policies and best management practices is intended to help prevent the discharge of stormwater that is detrimental to the local streams and waterways, and to develop and preserve the storm drainage infrastructure of the City of Austin as it continues to grow.

## **Purpose**

The purpose of the Stormwater Plan is to characterize 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. This plan will then establish the 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 the City's staff, and meets regulatory needs. The plan establishes a means for measuring, reporting, and 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.

This document is a compilation of programs, ordinances, regulations, procedures and information that will now be considered part of the City of Austin's Storm Water Management Program (SWMP) as required under the Regulated Small MS4 General Permit. Due to the nature of assembling material such as this, redundancy and ambiguity may exist within this document. If any part of this document is unclear, please contact the City of Austin for clarification at 501-941-2648. This document or portions within may be modified when necessary. Please contact the City of Austin prior to commencing any construction projects to insure that you have the most recent version of this SWMP.

## **Description of Permit Area**

The City of Austin currently serves a population of 2,038 people within its borders as of the 2010 Census. The geographic boundaries of the MS4 plan are the city limits and the plan for stormwater planning encompasses approximately 3.18 square miles. The City has authority and responsibility for planning, building, operating, maintaining and regulating the stormwater drainage systems within the city limits. This area includes Hudson Branch and Fourmile Creek and their tributaries, and the City's stormwater management practices will include cost-effective and efficient methods that will reduce or eliminate stormwater pollution and protect the riparian areas of these open waterways.

## Overview of Austin's Stormwater Drainage Systems

Stormwater in the City of Austin drains towards various tributaries throughout the Hudson Branch and Fourmile Creek watershed. Hudson Branch and Fourmile Creek then drain into Cypress Bayou. The low density development patterns predominant in the town are drained by road side ditches and a few subdivisions with underground drainage systems, all emptying into the tributaries of Hudson Branch and Fourmile Creek. Periodic clearing of brush, leaves and debris from the City's open storm drains is conducted by the staff of the City's maintenance crew.

### Area of Focus

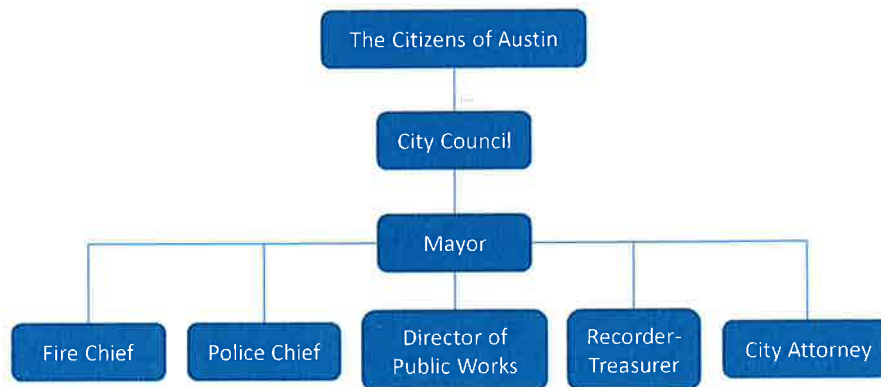
The Stormwater Plan addresses stormwater quality management policies and management practices that are, and/or will be implemented in the City. The scope of the Stormwater Plan is determined primarily by the Federal MS4 permit requirements, but is intended to address local water resources issues as well. These areas of focus in the Stormwater Plan 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 basins.
- *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 Municipal Code within the city limits and through the subdivision regulations in its extraterritorial jurisdiction.
- *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. The Federal NPDES Stormwater Program requires the City to implement pollution prevention practices that reduce or eliminate stormwater pollution from City activities. Beyond this regulatory motivation, it is important that the City lead by example in areas where similar practices and behaviors from citizens and businesses are required.
- *Public education geared toward broad community stewardship of water resources.* The Federal NPDES Stormwater Program 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 Stormwater Plan. The long-term success of the City's efforts will hinge on increased awareness and stewardship throughout the community.

The Stormwater Plan will result in formal, organized educational and outreach efforts that are targeted broadly throughout the area.

- *Public awareness and involvement in the City's Stormwater management program.* Broad awareness and participation in the development and implementation of the Stormwater Plan by residents and local area businesses is a key component to ensure effectiveness of the Stormwater Plan. The Stormwater Plan includes a public involvement component in its development that meets the Federal NPDES program.
- *Targeted capital improvements and maintenance programs to improve water quality and restore high priority areas.*
- *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.

## City Organization Chart



The current Director of Public Works is:

Randy McKenzie  
Director of Public Works  
P. O. Box 129  
City of Austin, AR 72007  
501-941-2648

The Public Works Department is responsible for management and implementation of the City of Austin's SWMP and MS4 Permit program. Public Works will have the assistance of the Police and Fire Departments in regulation and enforcement of the BMP's chosen designated in the plan.

# Implementation of the Six Minimum Control Measures

## 1. Public Education and Outreach on Stormwater Impacts

### Permit 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."

### Applicable BMPs:

- A. Stormwater information distribution to the general public: The City of Austin will distribute brochures and/or fact sheets from ADEQ or USEPA to developers, builders, and the residents of the City of Austin at City Hall.

Time to Implementation: One year to design and review documentation. Two to five years for distribution.

- B. Storm drain marking and precast storm drain covers: The City of Austin will develop stenciling and tagging to be placed on all storm inlets within the city. Examples of this are included in the supporting documentation.

Time to Implementation: Three years to implement as time and budget allows.

### Rationale & Decision Process:

The City of Austin's strategy for developing and distributing the public education materials is to start with information such as the most typical sources of pollutants in stormwater runoff and the impacts associated those pollutants. This information will be available in the brochures and fact sheets that will be distributed in the city. The storm drain marking and tagging will be placed in order to remind citizens of the ultimate destinations of the pollutants that the drains are receiving.

## 2. Public Involvement/Participation

### Permit Requirements:

The permittee must, at a minimum, comply with State and local public notice requirements when implementing a public involvement/participation program.

### Applicable BMPs:

- A. Create a stormwater hotline: The City of Austin will create a storm water hotline for residents to call and report storm water pollution.

Time to Implementation: One year. The city already has a Public Works contact number that all members of the public are free to contact to report concerns.

- B. Conduct Public meetings to obtain community input: The City of Austin will hold public meetings to discuss the adoption and implementation of the Stormwater Pollution Prevention and Erosion Control Standards to inform citizens about storm water management and gain support for and input into the proposed water management priorities and programs.

Time to Implementation: One year.

- C. Conduct presentations at local organizations: The City of Austin will, if allowed, perform presentations at local civic organization meetings and gatherings.

Time to Implementation: Two years to create presentation documents and media for use at local meetings and gatherings.

### Rationale & Decision Process:

The City of Austin will work to inform citizens that the City's Public Works contact number can also be used to inform the city of any sources of pollution that are witnessed. The public meetings as well as flyers and mailers will be used to generate public involvement in the process and increase community outreach concerning the actions that affect water quality in the City.

### 3. Illicit Discharge Detection and Elimination

#### Permit Requirements:

1. Develop, implement and enforce a program to detect and eliminate illicit discharges [as defined in 40 CFR §122.26(b)(2)] into the permittee's small MS4;
2. Develop a stormwater system map, showing the location of all outfalls and the names and location of all waters 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 stormwater system and implement appropriate enforcement procedures and actions. 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;
5. Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste; and
6. Address the following categories of non-storm water discharges or flows (illicit discharges) 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 ground waters, uncontaminated ground water infiltration (as defined at 40 CFR §35.2005(20)), 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, individual residential car washing, flows from riparian habitats and wetlands, de-chlorinated swimming pool discharges, and street wash water. Discharges or flows from fire-fighting activities are excluded from the effective prohibition.
7. Address the following categories of non-storm water discharges or flows (illicit discharges) 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 ground waters, uncontaminated ground water infiltration (as defined at 40 CFR §35.2005(20)), 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, individual residential car washing, flows from riparian habitats and wetlands, de-chlorinated swimming pool discharges, and street wash water. Discharges or flows from fire-fighting activities are excluded from the effective prohibition.
8. The permittee must develop a process to respond to and document complaints relating to illicit discharges.

#### Applicable BMPs:

- A. Ordinance: The City of Austin will adopt the ordinance that establishes Stormwater Pollution Prevention and Erosion Control Standards.

Time to Implementation: Three years to review existing ordinances and generate new ordinances that will cover Federal and State requirements.

- B. Outfall Inventory and Mapping: The City of Austin will develop and maintain a map of all stormwater outfalls, controls, and the location of receiving waters. This will be created using aerial photography, surveying, and photographic documentation by a consulting engineering firm. New development designs are added to the maps using developer provided CAD files for the newly platted areas. Approved construction drawings on CAD showing streets, inlets and development tie-ins to existing storm drains or outfalls from the development are transferred from the development drawings to the stormwater map.

Time to Implementation: Continuing.

- C. Assess Illicit Discharge Priorities: The Austin Public Works Department will collect and review data concerning enforcement activity to determine the types of complaints received and the amount of effort to enforce versus probable water quality benefits and assess the relative benefit of each type of enforcement activity to create a list of enforcement priorities.

Time to Implementation: Five years. Three years will be needed for data collection and evaluation and to generate new enforcement rules. Years four and five will be used to implement and evaluate new enforcement rules make any necessary adjustments.

- D. Perform Field Reviews and Site Inspections: The City of Austin will include erosion control elements in the building permit procedures and subdivision review and inspection procedures.

Time to Implementation: Three years. This BMP is directly tied to the creation of a Stormwater Pollution Prevention and Erosion Control Standards ordinance for the City of Austin.

#### Rationale & Decision Process:

The City of Austin will create an ordinance or ordinances to establish the City's regulations and enforcement of the Stormwater Management Plan and MS4 Permit.



#### 4. Construction Site Stormwater Runoff Control

##### Permit Requirements:

The permittee must develop, implement, and enforce a program to reduce pollutants in any stormwater runoff to the permittee's 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 permittee's 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 prevent or control waste that may cause adverse impacts to water quality such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site;
4. Procedures for site plan review and land division that incorporate measures to prevent or control 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.

##### Applicable BMPs:

- A. Erosion Control Ordinance: The City of Austin will establish an ordinance that establishes Stormwater Pollution Prevention and Erosion Control Standards.

Time to Implementation: Three years to review existing ordinances and generate new ordinances that will cover Federal and State requirements.

- B. Flood Damage Prevention & Storm Drainage Ordinance: The City of Austin will establish an ordinance that establishes a Flood Damage Prevention Code.

Time to Implementation: Three years to review existing ordinances and generate new ordinances that will cover Federal and State requirements.

- C. Staff Training: The City of Austin will offer at least one orientation and training session annually to involve City employees so that they can understand and perform their role in the program adequately.

- D. Field Inspection: Field inspections are performed to insure compliance with the city's ordinances and other applicable rules & regulations.

Time to Implementation: Three years. This BMP is directly tied to the creation of a Stormwater Pollution Prevention and Erosion Control Standards ordinance for the City of Austin.

- E. Provide Sample Site BMP's: Sample BMP specifications, details, and inspection reports are provided to contractors, builders or other interested parties. These samples are included in the subsequent sections of this document as well as ADEQ's General Permit ARR150000 and related documents.

Time to Implementation: Three years. This BMP is directly tied to the creation of a Stormwater Pollution Prevention and Erosion Control Standards ordinance for the City of Austin.

#### Rationale & Decision Process:

Construction plans that are submitted to the City of approval will need to be reviewed for compliance with the City's Stormwater Ordinance(s). Plans will be required to have Best Management Practices that will help eliminate sediment erosion in stormwater runoff. Individual developments are still subject to ADEQ construction permitting, but a unified program to reduce runoff pollution in the City is a necessity in order to perform inspections and enforcement of the codes and ordinances that will be established.

## 5. Post-Construction Stormwater Management in New Development and Redevelopment

### Permit Requirements:

1. Develop, implement, and enforce a program to ensure reduction of pollutants in storm water runoff to the maximum extent practicable (MEP) from new development and redevelopment projects that disturb one acre or more, or less than one acre if they are part of a larger common plan of development or sale, and discharge into the permittee's small MS4. The permittee's program must ensure that controls are in place that would prevent or minimize water quality impacts.
2. Develop and implement strategies that include a combination of structural or non-structural BMPs appropriate for the permittee's community.
3. 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.
4. Ensure adequate long-term operation and maintenance of BMPs; and ensure adequate enforcement of ordinance or alternative regulatory program.

### Applicable BMPs:

- A. **Revise Development Review Process:** The city review process is continually revised and modified to streamline the process in order to provide for a more efficient work environment and provide the public with a better end result of the implementation of all applicable rules and regulations.
- B. **Perform Field Evaluations:** Each Subdivision and Individual Site goes through a post construction review process. The Final Walkthrough Subdivision Checklist and Certification of Occupancy Checklist listed in 3C deal specifically with post-construction BMPs.

### Rationale & Decision Process:

Related rationale to Minimum Control Measure #4, in that while the individual developments are still subject to ADEQ construction permitting, but a unified program to reduce runoff pollution in the City is a necessity in order to perform inspections and enforcement of the codes and ordinances that will be established.

## 6. Pollution Prevention/Good Housekeeping for Municipal Operations

### Permit Requirements:

1. 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
2. Using training materials that are available from the ADEQ, EPA, or other organizations, the permittee's program must include employee training to prevent and reduce stormwater pollution from activities including, but not limited to, park and open space maintenance, fleet and building maintenance, new municipal facility construction and related land disturbances, design and construction of street and storm drain systems, and stormwater system maintenance.

### Applicable BMPs:

- A. Development of a City of Austin Storm Water Pollution Prevention Policy Guide: This manual and the BMP's listed will be used by all the City of Austin's Municipal Operations.

Time to Implementation: Immediate.

- B. Annual Training: The City of Austin will offer at least one orientation and training session annually to involved City employees so that they can understand and perform their role in the program adequately.

Time to Implementation: Immediate.

- C. Perform Stream/Ditch Channel Maintenance/Cleaning: The City of Austin performs maintenance on selected streams and ditches including removal of debris and trash annually as the budget allows.

Time to Implementation: Continuing.

### Rationale & Decision Process:

The City of Austin will need to evaluate the operation and maintenance of all the departments that participate in ground disturbance activities. Regular education and training sessions on different requirements and proper techniques on the protection of the waterways and stormwater system in the City are necessary.



ARKANSAS  
Department of Environmental Quality

**NOTICE OF INTENT  
FOR DISCHARGES OF STORMWATER  
ASSOCIATED WITH REGULATED SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS  
AUTHORIZED UNDER NPDES GENERAL PERMIT ARR040000**

The enclosed form may be used to obtain coverage under NPDES general permit ARR040000 for discharges of stormwater associated with Regulated Small Municipal Separate Storm Sewer Systems (MS4). **Only** a copy of the attached authorized Notice of Intent form will be accepted by this Department.

Return the completed form to:

Arkansas Department of Environmental Quality  
Permits Branch, Water Division  
5301 Northshore Drive  
North Little Rock, AR 72118

**NOTE: DO NOT LEAVE BLANK SPACES IN THE NOTICE OF INTENT. IF ANY QUESTION DOES NOT APPLY, MARK "N/A" IN THE SPACE PROVIDED.**

For additional information please contact:

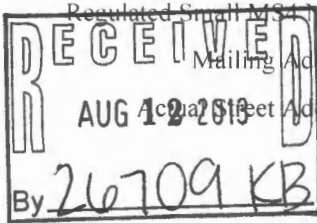
General Permit Section, Water Division  
Ph.: (501) 682-0623  
Fax: (501) 682-0880  
Web: [www.adeq.state.ar.us](http://www.adeq.state.ar.us)

NOTICE OF INTENT
FOR DISCHARGERS OF STORMWATER RUNOFF
ASSOCIATED WITH REGULATED SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS
AUTHORIZED UNDER NPDES GENERAL PERMIT ARR040000

I. PERMITTEE INFORMATION

New [X] Renewal [ ] (Permit Tracking Number ARR04 \_\_\_\_\_)

Regulated Small MS4 Name: City of Austin
Mailing Address: P. O. Box 129
City/Street Address: 3181 Hwy 367 N
City: Austin
State: Arkansas Zip: 72007
County(ies): Lonoke
[ ] FEDERAL [ ] STATE
[X] PUBLIC [ ] OTHER
Urbanized Area N/A



Enter the Latitude and Longitude of the approximate center of the Small MS4 (A map must be included.):

Small MS4 Latitude: 34 degrees 59 minutes 54 seconds
Small MS4 Longitude: 91 degrees 59 minutes 00 seconds

II. PERMITTEE CONTACT INFORMATION

Name: Randy McKenzie Telephone: 501-941-2648
Title: Manager Email Address: RMcKenzie@austin-ar.com

III. INVOICE MAILING INFORMATION

Invoice Contact Person: Randy McKenzie City: Austin
Invoice Mailing Company: City of Austin State: AR Zip: 72007
Invoice Mailing Address: P. O. Box 129 Telephone: 501-941-2648

IV. CERTIFICATION OF PERMITTEE (See Part 5.7 of the general permit)

For a municipality, State, Federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of Part VI.H of the general permit, a principal executive officer of a Federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA).

"I certify that the cognizant official designated in this Notice of Intent is qualified to act as a dully authorized representative under the provisions of 40 CFR 122.22(b). If no cognizant official has been designated, I understand that the Department will accept reports signed by the applicant. 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 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."

Responsible Official Printed Name: Bernie Chamberlain Title: Mayor
Responsible Official Signature: [Signature] Date: 8-8-2013

V. COGNIZANT OFFICIAL DESIGNATION (Optional)

Cognizant Official Printed Name: N/A Title: N/A
Cognizant Official Signature: N/A Date: N/A
Telephone N/A Email N/A

VI. PERMIT REQUIREMENT VERIFICATION

Submittal of Complete NOI? [ ] Yes [ ] No Submittal of MS4 map? [ ] Yes [ ] No
Submittal of Complete Stormwater Management Program? [ ] Yes [ ] No