



# Stormwater Management Program

**City of Grand Prairie, Texas**  
**Dallas County Flood Control District #1**



**TPDES General Permit TXR040000**  
**2013-2018**

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## Acronyms

BMP	Best Management Practice
CWA	Clean Water Act
DCFCD	Dallas County Flood Control District #1
EPA	Environmental Protection Agency
ESD	City of Grand Prairie Environmental Services Department
GIS	Geographic Information Systems
HHW	Household Hazardous Waste
I-Plan	Implementation Plan for Seventeen Total Maximum Daily Loads for Bacteria in the Greater Trinity River Region
MCM	Minimum Control Measure
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
NCTCOG	North Central Texas Council of Governments
NPDES	National Pollutant Discharge Elimination System
P2	Pollution Prevention
SIC	Standard Industrial Classification
SSO	Sanitary Sewer Overflow
SWMP	Stormwater Management Program
SWP3	Storm Water Pollution Prevention Plan
TCEQ	Texas Commission on Environmental Quality
TMDL	Total Maximum Daily Load
TPDES	Texas Pollutant Discharge Elimination System
WLA <sub>sw</sub>	Waste Load Allocation for Permitted Stormwater Sources

## Definitions

*Best Management Practices* – schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. Best management practices also include treatment requirements, operating procedures, practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

*Control Measure* – any best management practice or other method used to prevent or reduce the discharge of pollutants.

*Discharge* – when used without a qualifier, refers to the discharge of stormwater runoff or certain non-stormwater discharges as allowed under the authorization of this general permit.

*Illicit Connection* – any man-made conveyance connecting an illicit discharge directly to a municipal separate storm sewer.

*Illicit Discharge* – any discharge to a municipal separate storm sewer that is not composed entirely of stormwater except discharges pursuant to a National Pollutant Discharge Elimination System permit (other than the municipal separate storm sewer).

*Municipal Separate Storm Sewer System* – a conveyance or system of conveyances including roads with drainage systems, municipal streets, catch basins, curb, gutters, ditches, man-made channels, or storm drains.

*National Pollutant Discharge Elimination System* – National program for issuing, modifying, revoking and reissuing, terminating, imposing and enforcing pretreatment requirements, under sections 307, 402, 318, and 405 of CWA.

*Outfall* – a point source at the point where a municipal separate storm sewer discharges to waters of the United States.

*Permitting Authority* – for the purposes of this general permit, the TCEQ.

*Redevelopment* – alterations of a property that change the footprint of a site or building in such a way that results in the disturbance of equal to or greater than 1 acre of land.

*Stormwater* – stormwater runoff, snow melt runoff, and surface runoff and drainage.

*Watershed* – The region draining into a river, river system, or other body of water.

*Waters of the United States* – Waters of the United States or waters of the U.S. means:

- (a) all waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;

- (b) all interstate waters, including interstate wetlands;
- (c) all other waters such as interstate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds that the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:
  - (1) which are or could be used by interstate or foreign travelers for recreational or other purposes;
  - (2) from which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
  - (3) which are used or could be used for industrial purposes by industries in interstate commerce;
- (d) all impoundments of waters otherwise defined as waters of the United States under this definition;
- (e) tributaries of waters identified in paragraphs (a) through (d) of this definition;
- (f) the territorial seas; and
- (g) wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a) through (f) of this definition.

# **Introduction**

## **Regulatory Requirement**

The Clean Water Act (CWA) is a law enacted by Congress and signed by the President that establishes environmental programs, including the National Pollutant Discharge Elimination System (NPDES) program, to protect the Nation's waters and directs the U.S. Environmental Protection Agency (EPA) to issue rules on how to implement this law. Under the NPDES program, a municipal stormwater program was developed in two phases.

Phase I of the EPA municipal stormwater program was promulgated in 1990 under the authority of the CWA. Phase I relied on the NPDES permit coverage to address stormwater runoff from medium and large municipal separate storm sewer systems (MS4s), serving populations of 100,000 and greater.

On September 14, 1998, the Texas Commission on Environmental Quality (TCEQ) received authority to administer the NPDES permit program in Texas for those discharges under the regulatory authority of the agency. This program has been named the Texas Pollutant Discharge Elimination System Program (TPDES). Under a memorandum of agreement between the two agencies, the TCEQ agreed to adopt any new rules or permits to comply with Phase II stormwater regulations by the deadlines mandated in federal rules.

The Stormwater Phase II rule, promulgated December 8, 1999, was the next step in the EPA's efforts to preserve, protect, and improve the nation's water resources from polluted stormwater runoff. The Phase II program requires small MS4s (serving populations <100,000 based on the 1990 census) in urbanized areas to implement programs and practices to control polluted stormwater runoff through the TPDES permit program. This program includes the City of Grand Prairie and the Dallas County Flood Control District #1 (DCFCD). As a result, the City is required to:

- reduce the discharge of pollutants to the maximum extent practicable (MEP);
- protect water quality;
- satisfy the appropriate water quality requirements of the Clean Water Act; and
- manage stormwater quality activities through the Stormwater Management Program (SWMP).

## **Stormwater Management Program**

On August 13, 2007 the TCEQ issued the MS4 TPDES General Permit TXR040000 authorizing stormwater and certain non-stormwater discharges to the City's MS4. Small MS4s that meet the regulated criteria for Phase II of the TPDES Stormwater Program were required to submit a Notice of Intent (NOI) and SWMP within 180 days of the permit issuance. The Permit was then reissued on December 13, 2013. All permittees who were regulated under the previous TPDES general permit were required to submit an NOI for coverage and an updated SWMP within 180 days of the effective general permit date. By submitting a NOI and SWMP to comply with the TPDES Phase II regulations, the City of Grand Prairie and DCFCD acknowledge the regulatory authority of the TCEQ and agree to comply with TPDES

TXR040000 permitting requirements to discharge directly into surface waters. This permit and authorization shall expire five years after the date of issuance. An annual report documenting compliance with the SWMP will be submitted within 90 days of the end of each calendar year. The annual report will address the previous calendar year.

The City of Grand Prairie and DCFCD developed the SWMP in accordance with the requirements of the TPDES General Permit TXR040000. The SWMP will facilitate the City's and DCFCD's efforts in reducing stormwater pollutants from the City's MS4, thereby protecting the City's stormwater quality to the MEP. Included in the SWMP are specific best management practices (BMPs) that will be implemented to reduce pollutants, measurable goals for each BMP, and an implementation schedule developed for the five-year permit term. Various BMPs were developed for each of the six minimum control measures (MCMs) that are required by the Phase II Rule. These six MCMs are:

- Public Education, Outreach, and Involvement;
- Illicit Discharge Detection and Elimination;
- Construction Site Stormwater Runoff Control;
- Post-Construction Stormwater Management in New Development and Redevelopment;
- Pollution Prevention and Good Housekeeping for Municipal Operations; and
- Industrial Stormwater Sources

## **Program Overview**

### **Background Information for the City of Grand Prairie**

The City of Grand Prairie is situated between the major cities of Dallas and Fort Worth. Incorporated as the City of Grand Prairie in 1909, the community was first recognized as Dechman in 1863. The community covers 81 square miles of area and had a population estimated at 181,824 in 2012.

There are approximately 170 stream miles in Grand Prairie draining to three major water bodies: the West Fork of the Trinity River, Joe Pool Lake, and Mountain Creek Lake. The West Fork of the Trinity River runs across the city from west to east on the northern part of town, dominating drainage patterns to the Trinity River. The majority of creeks run northeast on the south side of the Trinity River and southeast on the north side of the Trinity River. Major creeks that drain directly to the Trinity River within city limits are Dalworth Creek, Johnson Creek, and Bear Creek. Major creeks draining to Joe Pool Lake and Mountain Creek Lake are Mountain Creek, Fish Creek, and Cottonwood Creek.

Joe Pool Lake is the focus of recreation in southern Grand Prairie. Much of the development and community activities focus on the recreational aspects of Joe Pool Lake. This lake was impounded in 1986 and has two forks created by Mountain Creek and Walnut Creek. The shorelines of the western main body, the entire Walnut Creek branch, as well as the western shoreline of the Mountain Creek branch are within city limits.

Mountain Creek Lake, impounded in 1937, is on the east side of the city. The drainage is dominated by Mountain Creek, after the Joe Pool Lake dam. The lake is within Dallas city limits; however, some tributaries originate in Grand Prairie, including Fish Creek and Cottonwood Creek. A fishing ban was issued for this lake in 1996 by the Texas Department of State Health Services for poly-chlorinated biphenyls, a group of dangerously harmful organic compounds once widely used in industrial activities. In 2010, the fishing ban was lifted and replaced with an advisory warning people not to consume any species of fish from the lake.

### **Historical City Stormwater Management**

The Planning and Development Department oversees and inspects the construction of new development and redevelopment. The Engineering Division ensures the effectiveness of erosion control measures during development and redevelopment through permitting. The Engineering Division also encourages the preservation of natural channels and requires drainage easements and control measures in the 100-year floodplain.

The Environmental Services Department was created and developed to support and protect public health and promote environmental quality. The Environmental Quality Division was created in 1984 to support the pretreatment program and address other water quality issues primarily through an inspection program, monitoring, and citizen involvement. Problematic areas

pertaining to stormwater have been identified and addressed in the past through the stormwater program. Some of these issues have included salvage yards, sanitary sewer overflows, household hazardous waste disposal, and hazardous material spills. These issues have been addressed through enforcement when necessary.

A stream monitoring program began in 1986 as the interest in the condition of the waters within city limits increased. The City currently samples at 23 sites in and near city limits once a month. The monitoring includes water quality indicators such as temperature, dissolved oxygen, pH, and other water quality parameters. Quarterly and annually, the water is tested for potentially harmful chemicals such as nutrients and pesticides. This information has been used to identify sources of pollution and reduce illicit discharges.

## **Management Program Development Process**

The unique hydrology and water quality concerns of the City of Grand Prairie have been considered in developing this Stormwater Management Program. In preparing the Program, the City of Grand Prairie's Environmental Quality Division has conducted meetings with a multitude of City personnel to discuss the different activities that may have stormwater impacts. Some of the functions that have been identified as having a potential impact have included streets services, equipment maintenance services, landfill, airport, code enforcement, police, fire, parks and recreation, engineering, and building inspections. In addition, the Planning and Development Department utilized the consulting firm Freese and Nichols, Inc. to help in the preparation of the Program regarding construction and post-construction MCMs.

The Program describes a number of BMPs that address stormwater issues identified as most prevalent or problematic in the watersheds served by the MS4. The BMPs meet a number of objectives created by the aforementioned departments. These objectives, organized by MCMs, are to:

### **Public Education, Outreach, and Involvement:**

- Inform public employees, businesses, and the general public of hazards associated with illegal discharges and steps they can take to improve stormwater quality.
- Comply with any State and local public notice requirements when implementing a public involvement/participation program.
- Include public input in the implementation of the program.
- Create opportunities for citizens to participate in the implementation of the program.
- Ensure the public can easily find information on the program.

### **Illicit Discharge Detection and Elimination:**

- Maintain an up-to-date MS4 map.
- Develop a program for detecting and tracking illicit discharges.
- Develop a program for correcting and preventing illicit discharges.
- Develop procedures for identifying priority areas.
- Conduct dry weather screening in priority areas.

- Implement a method for educating and training City field staff.
- Facilitate public reporting of illicit discharges.
- Maintain procedures for responding to spills and illicit discharges.

#### Construction:

- Have an ordinance or other regulatory mechanism requiring the implementation of proper erosion and sediment controls, and controls for other wastes, on applicable construction sites.
- Require that construction site operators implement appropriate erosion and sediment control BMPs.
- Have procedures for site plan review of construction plans that consider potential water quality impacts.
- Have procedures for site inspection and enforcement of control measures.
- Establish procedures for the receipt and consideration of information submitted by the public.
- Provide MS4 training for all staff whose primary job duties are related to implementing the construction stormwater program.
- Maintain an inventory of all permitted active public and private construction sites that result in a total land disturbance of one or more acres or that result in less than one acre if part of a larger common plan of development or sale.

#### Post-Construction:

- Develop and implement strategies which include a combination of structural and/or non-structural BMPs.
- Have an ordinance or other regulatory mechanism requiring the implementation of post-construction runoff controls to the extent allowable under state, federal, or local laws.
- Ensure adequate long-term operation and maintenance of controls.

#### Pollution Prevention/Good Housekeeping for Municipal Operations:

- Review, revise as necessary, and implement the City's operation and maintenance program.
- Develop and maintain an inventory of facilities and stormwater controls owned and operated by the City.
- Train appropriate employees on implementing pollution prevention and good housekeeping practices.
- Long-term inspection procedures for structural and non-structural stormwater controls to reduce floatables and other pollutants discharged from the separate storm sewer.
- Implement controls for reducing or eliminating the discharge of pollutants from streets, roads, public parking lots, including, but not limited to, high traffic zones, commercial and industrial districts, sport and event venues, and plazas, as well as areas that consistently accumulate high volumes of trash, debris, and other stormwater pollutants.
- Properly dispose of waste removed from the MS4.

- Ensure City hired contractors meet program requirements and are provided oversight.
- Map and identify where the City owned and operated facilities and stormwater controls are located.
- Assess inventoried facilities' pollutant discharge potential, identify high priority facilities, and document assessment results.
- Develop facility specific stormwater management standard operating procedures.
- Implement stormwater controls for high priority facilities.
- Develop and implement an inspection program for high priority City owned facilities.
- Develop and implement pollution prevention practices for pesticide, herbicide, and fertilizer application and management.

#### Industrial Stormwater Sources

- Identify and control pollutants in stormwater discharges from applicable City facilities.
- Identify and control pollutants in stormwater discharges from applicable industrial or commercial facilities.
- Include priorities and procedures for inspections and for implementing control measures for stormwater discharges.

### **Public Review of the Stormwater Management Program**

In accordance with the General Permit TXR040000, Part II, Section E, Number 12, the SWMP will be available for review at the Grand Prairie Memorial Library Repository, located at 901 Conover Drive, Grand Prairie, Texas 75051, and is also available on the City website at <http://www.gptx.org/EnvironmentalServices/documents/StormWaterManagementPlan.pdf>. Opportunity to comment is available on the website by return address to [erexroad@gptx.org](mailto:erexroad@gptx.org).

### **Legal Authority**

The City of Grand Prairie and Dallas County Flood Control District #1 (DCFCD) are jointly submitting this Stormwater Management Program as described in an interlocal agreement approved by the aforementioned entities on May 9, 2014. According to Part III of the General Permit, a permittee may enter into interlocal agreements with municipalities where the small MS4 is located in order to meet the goals of the permit if the permittee does not have enforcement authority and is unable to meet the goals of the general permit through its own powers. Approximately 20% of the DCFCD is located within the City of Grand Prairie boundaries; however, the DCFCD does not have enforcement capabilities. As a result, the City of Grand Prairie and DCFCD have agreed to the joint submission of this SWMP where the DCFCD is solely responsible for only two (2) BMPs (BMP 5.3 and 5.4). The City of Grand Prairie is entirely responsible for all other BMPs described in this SWMP. By February 1<sup>st</sup>, following the end of each permit year, the DCFCD will provide detailed information to the City of Grand Prairie on activities that occur within the DCFCD and City of Grand Prairie boundaries so that the City of Grand Prairie may complete its annual report for the TCEQ.

## **Recordkeeping and Tracking**

In accordance with the General Permit TXR040000, Part IV, Section A, the City of Grand Prairie will retain all records, a copy of the TPDES General Permit, and records of all data used to complete the application for the General Permit and make this information available to the public if requested to do so in writing.

The City of Grand Prairie has elected to report based on calendar year; therefore, the first reporting year will last until December 31, 2014. All BMP activities, results, and changes to the SWMP will be tracked through the annual report which will be submitted to the TCEQ within 90 days of the end of each reporting year. To keep the City of Grand Prairie in compliance with the General Permit conditions, the annual report will include all factors required by the General Permit, including the status of the compliance with permit conditions, assessments of BMPs, and any changes to the SWMP.

## **Total Maximum Daily Load (TMDL) Requirements for Bacteria**

In August of 2012, the North Central Texas Council of Governments (NCTCOG), City of Grand Prairie, and several other stakeholders submitted the *Implementation Plan for Seventeen Total Maximum Daily Loads for Bacteria in the Greater Trinity River Region* (I-Plan) to the TCEQ. This I-Plan addresses TMDLs for bacteria in the Greater Trinity River region, which incorporates the Lower West Fork of the Trinity River (segment 0841) and several of its tributaries, including Bear, Arbor, Copart/Mountain, Dalworth, and Johnson Creeks. On September 24, 2013, the TCEQ adopted *Thirteen Total Maximum Daily Loads for Indicator Bacteria in the Lower West Fork Trinity River Watershed*. In addition to the Lower West Fork of the Trinity River, these bacteria TMDLs also include the aforementioned tributaries, each of which are located in Grand Prairie. On December 11, 2013, TCEQ Commissioners approved the final version of the I-Plan. The City will implement this recently adopted I-Plan to address bacteria TMDLs, as appropriate. The City will also implement additional BMPs targeting bacteria, as described throughout this SWMP in MCM 1, MCM 2, and MCM 5.

In order to determine if the BMPs established are effective in addressing bacteria in stormwater discharges from the City to the MEP, the City has elected to use the Waste Load Allocations for permitted stormwater sources (WLA<sub>sw</sub>) identified in the *Thirteen Total Maximum Daily Loads for Indicator Bacteria in the Lower West Fork Trinity River Watershed* as a benchmark (Table 1).

**Table 1: TMDL allocations for impaired assessment units within Grand Prairie, Texas**

All loads expressed as billion MPN/day

Assessment Unit	Segment Name	TMDL	WLA <sub>WWTFa</sub> <sup>a</sup>	WLA <sub>SW</sub> <sup>b</sup>	LA <sup>c</sup>	MOS <sup>d</sup>
0841_01	Lower West Fork Trinity River	16,394	553.3	589.6	15,191	60.15
0841_02	Lower West Fork Trinity River	11,448	403.2	1,920	9,003	122.3
0841B	Bear Creek	2,520	0.203	1,085	1,378	57.09
0841C	Arbor Creek	50.10	0	47.59	0	2.505
0841E	Copart Branch Mountain Creek	25.92	0	24.62	0	1.296
0841G	Dalworth Creek	59.37	0	56.41	0	2.969
0841L	Johnson Creek	567.0	0	491.0	50.10	25.84

<sup>a</sup>WLA<sub>WWTFs</sub> = WLA for wastewater treatment facilities

<sup>b</sup>WLA<sub>SW</sub> = WLA for permitted stormwater

<sup>c</sup>LA = (load allocation) = the amount of pollutant allowed by unregulated sources

<sup>d</sup>MOS = margin of safety load

In order to evaluate and report progress towards the aforementioned benchmark, the City will identify the appropriateness and success of the implemented BMPs by using program indicators (e.g. number of illicit discharges identified or eliminated, number of illegal dumping complaints received, etc.).

The City has also determined that it may be a source of bacteria for impaired water bodies (as listed on the CWA 303(d) list) that do *not* have an approved TMDL. As such, they City will implement the BMPs described in this SWMP and, where applicable, the aforementioned I-Plan throughout these and all other areas of Grand Prairie where bacteria is a pollutant of concern.

## Minimum Control Measures

The following MCMs include the BMPs, measurable goals, responsible party, and target date for each BMP. The listed target date for each measurable goal is defined as the scheduled completion date for that goal where Year 1 completion date is December 31, 2014, Year 2 completion date is December 31, 2015, Year 3 completion date is December 31, 2016, Year 4 completion date is December 31, 2017, and Year 5 completion date is December 31, 2018. BMPs with more than one year listed will be completed for each year listed.

Bacteria are a community-wide issue that are the target of many of the BMPs located throughout this SWMP. BMPs that focus on reducing bacteria in the MS4 have “TMDL” included in the name of the BMP. Please note, BMPs with this notation may target other pollutants of concern as well (e.g. sediments, floatables, etc.).

### MCM 1. Public Education, Outreach, and Involvement

**40 CFR 122.34 (b)(1)(i) – Implement a public education program to distribute educational materials to the community of contact, equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.**

**40 CFR 122.34 (b) (2) -At a minimum, comply with state, tribal, and local public notice requirements when implementing a public involvement/participation program. EPA recommends that the public be included in developing, implementing, and reviewing your stormwater management program and that the public participation process should make efforts to reach out and engage all economic and ethnic groups.**

BMP	BMP Description	Measurable Goals	Responsibility	Target Date
<b>1.1 Household Hazardous Waste (HHW) Program (TMDL)</b>	Reduction of the unauthorized disposal of household hazardous waste will be promoted through the distribution of educational materials and through HHW events that provide city residents the	1. Continue pamphlet and/or wheel distribution at the Development Center	Environmental Services Department, Environmental Quality Division	Years 1 – 5

	opportunity to dispose of household hazardous waste.	2. Discuss hazards of household hazardous waste at least 1 time per year in a City newsletter		Years 1 – 5
		3. Handout HHW magnets to at least 100 citizens per year		Years 1 – 5
<b>1.2 Pet Waste Management Education and Involvement</b> <i>(TMDL)</i>	Promote awareness of the hazards to health and the environment from pet waste through several forms of outreach.	1. Maintain “Doo the Right Thing” video on the City website and play on cable television annually	Environmental Services Department, Environmental Quality Division and Animal Services Division	Years 1 – 5
		2. Annually distribute at least 200 informative brochures to customers adopting pets at the Prairie Paws Adoption Center and display pet waste poster or banner in the Environmental Services Department (ESD) office		Years 1 – 5
		3. Annually distribute a minimum of 200 informative brochures at the Development Center and/or at educational events		Years 1 – 5
		4. Install 2 pet waste collection dispensers at any future pet park to promote proper owner disposal of pet waste		Year 4

<b>1.3 Environmental Compliance Workshops</b> <i>(TMDL)</i>	Pollution Prevention (P2) measure concepts are promoted to industries to reduce waste generated and potential sources of stormwater pollution.	1. Encourage P2 measures through semi-annual environmental compliance workshops	Environmental Services Department, Environmental Quality Division	Years 1 – 5
<b>1.4 Commercial and Industrial Activity Education on the Impacts of Floatables</b> <i>(TMDL)</i>	Awareness of and responsibility for floatables control and responsibility of commercial and industrial businesses will be integrated into existing activities by distributing information to selected facilities during routine inspections.	1. Distribute informative brochures to 50% of the industrial facilities and food permit holders inspected each calendar year	Environmental Services Department, Environmental Quality Division	Year 1-5
		2. Make available on the City website		Years 1 – 5
<b>1.5 Informational Material for Automotive Related Businesses</b> <i>(TMDL)</i>	Awareness of the impact of the automotive sector’s pollutants on water quality will be integrated into existing activities through the distribution of information on BMPs and use of BMPs for automotive activities during routine Certificate of Occupancy inspections.	1. Distribute automotive and stormwater quality informative material during Certificate of Occupancy inspections	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Maintain auto related business BMPs on the City website		Years 1 – 5
<b>1.6 Funding for Elementary School Curriculum on Stormwater Quality</b> <i>(TMDL)</i>	Education on stormwater quality and pollution prevention will be provided as needed to elementary schools in Grand Prairie ISD through the purchase of curriculum.	1. Purchase Major Rivers© or similar curriculum as needed for additional Grand Prairie ISD classrooms	Environmental Services Department, Environmental Quality Division	Years 1 – 5
<b>1.7 Interactive Watershed Model Display on Stormwater Quality</b> <i>(TMDL)</i>	Demonstrate to multiple age groups the effects of various residential and commercial pollutants on stormwater quality.	1. Annually display an interactive watershed model or similar display during child related educational events	Environmental Services Department, Environmental Quality Division	Year 2-5

<b>1.8 Utility Bill Insert</b> <i>(TMDL)</i>	Raise awareness of stormwater issues for citizens by placing articles in the water utility bill insert.	1. Annually distribute information about stormwater issues in the water utility bill insert to 80% of the City's customers	Environmental Services Department, Environmental Quality Division	Years 1 – 5
<b>1.9 Multimedia Stormwater Public Education</b> <i>(TMDL)</i>	Promote watershed awareness for citizens, City staff, and visitors using multiple types of media, including a website, City's cable channel, and Facebook.	1. Have stormwater quality public service announcement on GPTV at least once per year	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Post stormwater quality message on Facebook at least twice per year		Years 2 – 5
		3. Provide and maintain Stormwater Pollution Prevention information on the City's website		Years 1 – 5
		4. Show stormwater related video during new employee orientation		Years 2 – 5
<b>1.10 Tailor Outreach Programs to non-English languages</b> <i>(TMDL)</i>	Ensure educational materials are translated into Spanish, as needed.	1. Provide educational materials in Spanish, when available.	Environmental Services Department, Environmental Quality Division	Years 1 – 5
<b>1.11 Stormwater Education for Visitors</b> <i>(TMDL)</i>	Provide education featuring water quality issues for Grand Prairie visitors.	1. Provide information about stormwater issues on the City website	Environmental Services Department, Environmental Quality Division	Years 1-5

<b>1.12 Storm Drain Markers</b> <i>(TMDL)</i>	Install storm drain markers “Protect Our Water, Don’t Dump” to promote awareness of the storm drain system.	1. Purchase and install 100 of the City’s unmarked storm drain curb inlets annually. Volunteers will be enlisted to help with the installation, when available	Environmental Services Department, Environmental Quality Division	Years 2 – 5
<b>1.13 Public Education Event</b> <i>(TMDL)</i>	Hold an interactive educational event that promotes stormwater BMPs.	1. Annually hold a public education event that focuses on education through involvement and promotional giveaways	Environmental Services Department, Environmental Quality Division	Years 2 – 5
<b>1.14 Household Hazardous Waste (HHW) Collection Events</b> <i>(TMDL)</i>	Encourage citizens to dispose of HHW properly by participating in City hosted events	1. Maintain contract with Forth Worth annually to allow Grand Prairie citizens to drop off HHW at the Environmental collection center	Environmental Services Department, Environmental Quality Division	Years 1– 5
		2. Annually hold at least 1 HHW collection event in Grand Prairie		Years 1– 5
<b>1.15 Auto Related Business (ARB) and Industrial Facility Mailing List</b>	Maintain mailing list of ARB and industrial facilities and mail out informative material.	1. Annually mail information regarding stormwater BMPs	Environmental Services Department, Environmental Quality Division	Years 1– 5
<b>1.16 Annual Environmental Compliance Achievement Awards</b>	Encourage industrial facilities to obtain industrial permit as required by the SIC code.	1. Annually recognize facilities who achieve 100% compliance	Environmental Services Department, Environmental Quality Division	Years 1– 5

<b>1.17 Clean Rivers Program</b>	Stream monitoring information is made available for review on the Clean Rivers Program website. Access to this site will be provided through the City's website.	1. Maintain link to the Clean Rivers Program's website on the City's website	Environmental Services Department, Environmental Quality Division	Years 1 – 5
<b>1.18 Lawn and Garden Education for Homeowners</b>	Efforts will be made to encourage lawn and garden low maintenance concept into existing education programs throughout the city through the purchase and distribution of educational materials and other promotions. Low maintenance garden concepts will be maintained and/or created on City properties.	1. Provide information about native and adaptive plants on the City website	Environmental Services Department, Environmental Quality Division and Public Works	Years 1 – 5
		2. Maintenance of Texas SmartScape™ Demonstration Garden at the Prairie Paws Adoption Center and Water Utility Operations facility		Years 1 – 5
<b>1.19 Don't Bag It! Program</b>	Encourage participants to mulch grass and yard clippings as a compost instead of application of commercial fertilizers.	1. Distribute public education materials about the program at 3 venues located throughout the city	Environmental Services Department, Solid Waste Division	Years 1 – 5
		2. Provide information about the program in the water bill insert to 80% of the City's water customers		Years 1 – 5
<b>1.20 H<sub>2</sub>O Line</b>	Produce and distribute a newsletter to selected industrial sectors and automotive related businesses featuring stormwater topics.	1. Produce and distribute a newsletter promoting pollution prevention awareness to at least 200 businesses biannually	Environmental Services Department, Environmental Quality Division	Years 1 – 5
<b>1.21 Auto Watch</b>	Create and distribute a water quality and code enforcement publication featuring environmental issues specific to automotive related businesses.	1. Continue to create and distribute publication to at least 300 businesses annually	Environmental Services Department, Environmental Quality Division, Code	Years 1 – 5

			Enforcement Division	
<b>1.22 Educational Material for Construction Site Personnel</b>	Provide educational materials on BMPs and erosion control for construction site personnel.	1. Distribute 200 construction BMPs and erosion control brochures at the Development Center and/or provide a link to the educational material on the City's website	Planning and Development Department and Environmental Services Department	Years 1-5
<b>1.23 Public Notice in Development of SWMP</b>	Comply with federal, state, and local public notice requirements when implementing the SWMP.	1. Continue to make the document available for comments on the City website, at the Environmental Services Department office, and at the Grand Prairie Memorial Library Repository	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Publish notice of the executive director's preliminary decision on the NOI and SWMP and adhere to 30 day public comment period		Year 1
<b>1.24 Texas Stream Team Volunteer Stream Monitoring Program</b>	Involve volunteers in the stream monitoring process through Texas Stream Team.	1. Hold Texas Stream Team training sessions for volunteers or corporations, if interest exists	Environmental Services Department, Environmental Quality Division	Years 2 – 5

<b>1.25 Master Composter Program</b>	Involve the public in lawn and garden compost waste training that will encourage reductions in fertilizer and pesticide use. Participants receive hands-on training and can become a Certified Master Composter.	1. Conduct 1 Master Composter class per year	Environmental Services Department, Solid Waste Division	Years 1 – 5
		2. Distribute yard care educational materials to at least 20 Master Composter participants annually		Years 1 – 5
<b>1.26 Illegal Dumping Hotline (TMDL)</b>	Encourage citizens to report violators of dumping by participating in an inter-local response to an illegal dumping hotline (see also BMP 2.10)	1. Continue to make the Illegal Dumping Hotline available on the City’s Code Enforcement website	Planning and Development Department, Code Enforcement Division, Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Maintain the Illegal Dumping Hotline link on the Environmental Services stormwater webpage		Years 1 – 5
<b>1.27 Stakeholder Meetings</b>	Keep citizens and other stakeholders involved in the decision process for managing the Stormwater Management Program.	1. Hold, or participate in through NCTCOG, one stakeholder meeting per year	Environmental Services Department, Environmental Quality Division	Years 1 – 5
<b>1.28 Neighborhood Outreach Program</b>	Program encourages the involvement of neighborhood associations for the purpose of educating them about stormwater related issues.	1. Annually coordinate a neighborhood project, such as stream/wetland cleanups, tree planting projects or awareness events	Environmental Services Department, Solid Waste Division	Years 1 – 5

<b>1.29 School Outreach Programs</b>	Partnership between the City's Keep Grand Prairie Beautiful Program and a local school district that encourages student and campus participation.	1. Annually facilitate at least 1 activity for the campus programs	Environmental Services Department, Solid Waste Division	Years 1 – 5
<b>1.30 Advisory Committees or Task Force Groups</b>	Share information and help develop stormwater programs by participating in stormwater related committees or task force groups through NCTCOG.	1. Sit on at least one stormwater committee or task force group annually.	Environmental Services Department, Environmental Quality Division	Years 1 – 5

## MCM 2. Illicit Discharge Detection and Elimination

**40 CFR 122.34 (b) (3) -Develop, implement, and enforce a program to detect and eliminate illicit discharges into your small MS4. Develop a storm sewer system map, showing the location of all outfalls and the names and locations of all water of the U.S. that receive discharges from those outfalls. To the extent allowable under state, tribal or local law, effectively prohibit, through ordinance, or other regulatory mechanism, non-stormwater discharges into your storm sewer system and implement appropriate enforcement procedures and actions. Develop and implement a plan to detect and address non-stormwater discharges including illegal dumping to your system. Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste. Address categories listed in 122.34(b) (3) (D) (iii) if you determine they are significant contributors of pollutants to MS4.**

BMP	BMP Description	Measurable Goals	Responsibility	Target Date
<b>2.1 Maintain a GIS Database of the MS4</b> <i>(TMDL)</i>	Maintain an updated map of the locations of all outfalls and the names of all receiving US surface waters.	1. Maintain current drainage system map, including outfalls, using asbuilts, aerial images, and/or through field verification	Environmental Services Department, Environmental Quality Division and Information Technology Department, GIS Division	Year 1 – 5
<b>2.2 Priority Areas</b> <i>(TMDL)</i>	Identify priority areas within the city likely to have an illicit discharge.	1. Determine and document the basis for the selection of priority areas. Identify and list areas	Environmental Services Department, Environmental Quality Division	Year 2
		2. Map priority areas		Year 2
<b>2.3 Dry Weather Field Screening</b> <i>(TMDL)</i>	Develop and implement a program to detect and address non-stormwater discharges, including illegal dumping, into the storm sewer system.	1. Develop and implement revised dry weather field screening program	Environmental Services Department, Environmental Quality Division	Year 2

		2. Conduct dry weather screening of 1/3 of priority areas as identified in BMP 2.2		Years 3-5
<b>2.4 Complaint Database</b> <i>(TMDL)</i>	A database is kept of all citizen complaints regarding illicit discharges.	1. Maintain the complaint database	Environmental Services Department	Years 1 – 5
<b>2.5 Complaint Response</b> <i>(TMDL)</i>	All citizen complaints are to be investigated.	1. Maintain a response of 80% within 5 days	Environmental Services Department	Years 1 – 5
<b>2.6 Illicit Discharge and Spill Procedures</b> <i>(TMDL)</i>	Develop and maintain procedures for responding to illicit discharges and spills.	1. Maintain standard operating procedures for responding to spills		Years 1 – 5
		2. Develop and maintain standard operating procedures for responding to illicit discharges		Years 2 – 5
<b>2.7 Source Investigation and Elimination</b> <i>(TMDL)</i>	Identify and locate the source of illicit discharges and/or spills. Require responsible parties to perform all necessary corrective actions to eliminate the illicit discharge and/or spill.	1. Conduct source investigations to identify and locate illicit discharges as soon as practicable	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Report to the TCEQ all illicit discharges/spills believed to be an immediate threat to human health or the environment		Years 1 – 5

		3. Document the date the discharge was observed, results of the investigation, follow-up investigation details, and the date the investigation was closed		Years 1 – 5
		4. Notify the responsible party and require the responsible party to take all corrective actions necessary		Years 1 – 5
		5. Notify adjacent permitted MS4 operator or the TCEQ if an illicit discharge/spill extends outside of Grand Prairie’s boundary		Years 1 – 5
		6. Perform dry weather field screening during follow-up investigation to ensure discharge has been eliminated		Years 2 – 5
<b>2.8 Spill Response</b> <i>(TMDL)</i>	Coordinate with the Fire Department on emergency spill response, using a private contractor for clean-up and remediation.	1. Continue response and training	Environmental Services Department	Years 1 – 5
<b>2.9 Building Project Review Process</b> <i>(TMDL)</i>	Environmental Specialist reviews and inspects for any illicit connections or water quality hazards during the building project review process.	1. Continue to review at least 80% of new commercial construction plans for water quality hazards	Environmental Services Department, Environmental Quality Division	Years 1 – 5

		2. Continue to inspect at least 80% of Certificates of Occupancy that have a potential to impact stormwater		
<b>2.10 Illegal Dumping Hotline</b> <i>(TMDL)</i>	Encourage citizens to report illicit discharges or violators of dumping by participating in an inter-local response to an illegal dumping hotline (see also BMP 1.26)	1. Continue to make the Illegal Dumping Hotline available on the City’s Code Enforcement and Environmental Services website	Planning and Development Department, Code Enforcement Division, Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Distribute information on illicit discharges and contacts for reporting illicit discharges in the City’s water bill annually		Years 2 – 5
<b>2.11 Stream Sampling</b> <i>(TMDL)</i>	Assess water quality of streams through monthly stream monitoring of 10 sites within or near the city limits. Investigate atypical results for an illicit discharge.	1. Monitor and investigate 10 streams for atypical stream results on a monthly basis	Environmental Services Department, Environmental Quality Division	Years 1 – 5
<b>2.12 Sanitary Sewer Overflow Response Plan</b> <i>(TMDL)</i>	Follow the plan created and implemented for the response of Water Utilities and Environmental Services to SSOs. ESD’s response ensures the protection of the waterways through professional advice and field testing.	1. Maintain the plan for Water Utilities and Environmental Services to respond to SSOs	Environmental Services Department, Public Works Department, Water Utilities Division	Years 1 – 5
<b>2.13 Illicit Discharge Awareness Campaign for Businesses and General Public</b> <i>(TMDL)</i>	Inform businesses and the general public of hazards associated with illegal discharges and improper disposal of waste.	1. Educate the general public and 25% of potential polluting businesses annually through the use of brochures, videos, or other methods	Environmental Services Department, Environmental Quality Division	Year 2 – 5

<b>2.14 Educating and Training City Field Staff</b> <i>(TMDL)</i>	Ensure City staff that may come into contact with or otherwise observe an illicit discharge or illicit connection has the proper education and training (see also BMP 5.7).	1. Determine effective means of disseminating IDDE training video to field staff	Environmental Services Department, Environmental Quality Division	Year 2
		2. Disseminate IDDE training video to field staff and keep materials and attendance lists at the Environmental Quality Division office		Year 3
		3. Create and provide vehicle card or decal with contact information in the event staff observes an illicit discharge		Year 3
		4. Purchase and distribute IDDE posters for display in applicable facility buildings		Year 3
<b>2.15 Stormwater Ordinance</b> <i>(TMDL)</i>	Review the stormwater ordinance for necessary revisions and update as needed. The ordinance effectively prohibits non-stormwater discharges into the storm sewer system and implements enforcement procedures and actions. The ordinance also includes a description of local controls and conditions established for common and incidental non-stormwater discharges not considered illicit.	1. Review the stormwater ordinance for necessary revisions	Environmental Services Department, Environmental Quality Division	Year 2
		2. If revisions are needed, update the stormwater ordinance and prepare for Council approval		Year 3
		3. If revised, implement revised ordinance		Years 4 – 5

<b>2.16 Litter Collection Program</b> (TMDL)	Keeping the major thoroughfares clean and free of litter will reduce the amount of floatables that reach water ways. A contractor is employed to clear litter from these roadways.	1. Remove litter from major thoroughfares weekly	Environmental Services Department, Solid Waste Division	Years 1 – 5
<b>2.17 Illegal Dumping Clean-Up</b> (TMDL)	Cleaning up debris in a timely fashion reduces the amount of illegal dumping. The City investigates all illegal dumping and ensures the removal of debris.	1. Continue efforts to remove all illegally dumped debris at least 30 days from the day the violation was reported	Planning and Development Department, Code Enforcement Division	Years 1 – 5
<b>2.18 Beach Sampling Program</b> (TMDL)	Help reduce health risk to the visitors of Joe Pool Lake swim beaches by minimizing the public’s exposure to diseases in the water.	1. Follow an SOP for beach sampling once a month during the summer or swimming months	Environmental Services Department, Environmental Quality Division	Years 1 – 5
<b>2.19 On Site Sewage System Permitting</b> (TMDL)	On site sewage systems are regulated through an ordinance and permitted by the City. Failing septic systems are identified and abated.	1. Maintain the permitting of sewage systems	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Respond to onsite sewage systems within 10 days of receiving complaint and enforce as necessary		Years 1 – 5
<b>2.20 Auto Inspection Program</b> (TMDL)	Inspect auto-related businesses for water quality issues on an annual basis.	1. Inspect at least 75% of auto-related businesses annually	Environmental Services Department, Environmental Quality Division	Years 1 – 5
<b>2.21 Grease Trap Pumping</b> (TMDL)	In order to reduce the number of illicit discharges, ensure grease traps are being pumped as required.	1. Run report in LINKO to ensure frequency of pumping requirements are met	Environmental Services Department, Environmental Quality Division	Years 3-5

<b>2.22 Horse Stables</b> <i>(TMDL)</i>	Ensure private horse stables are maintained properly so that sources of bacteria are reduced.	1. Create inspection form	Environmental Services Department, Environmental Quality Division, Animal Services Division, Planning and Development Department, Code Enforcement Division	Year 2
		2. Perform annual inspections of private horse stables and ensure good housekeeping practices are implemented		Years 3-5
<b>2.23 Sanitary Sewer Systems</b> <i>(TMDL)</i>	Ensure sanitary sewers are functioning properly in order to reduce overflows.	1. Make improvements to sanitary sewers and lift stations, as needed	Environmental Services Department, Environmental Quality Division, Public Works Department, Water Utilities Division	Years 1-5
		2. Ensure reporting of overflows is in compliance with state requirements		Years 1-5
		3. Update the Certificate of Occupancy SOP for food manufacturers and restaurants		Year 4

### MCM 3. Construction Site Stormwater Runoff Control

**40 CFR 122.34 (b) (4) - Develop, implement, and enforce a program to reduce pollutants in stormwater runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre or if that construction activity is a part of a larger common plan of development or sale that would disturb one acre or more. The program must include development and implementation of, at a minimum: an ordinance or other regulatory mechanism requiring the implementation of proper erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under state or local law; requirements for construction site operators to implement appropriate erosion and sediment best management practices; requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, fuels, litter, and sanitary waste at the construction site that may cause adverse impacts on water quality; procedures for site plan review which incorporate consideration of potential water quality impacts; procedures for receipt and considerations of information submitted by the public; and procedures for site inspection and enforcement of control measures.**

The following BMPs for Construction Site Stormwater Runoff Control apply to 1) construction activities of one acre and greater and 2) construction activities at sites that are part of a larger common plan of development (where the total disturbed area is equal to one acre or greater).

BMP	BMP Description	Measurable Goals	Responsibility	Target Date
<b>3.1 Review Construction Plans and Designs</b>	Require designers to include erosion and sediment control measures with approved BMPs in plans and specifications in all projects in accordance with the TPDES Construction General Permit and all local and State regulations.	1. Require erosion and sediment control plans including BMP details in engineering plan submittals	Planning and Development Department, Engineering Division	Years 1 – 5
		2. Add program to document training for sediment and erosion control plan reviewers		Years 1 – 5

<b>3.2 Earthwork Permit</b>	Issue earthwork permit to grade, grub, clear, fill, or any other form of earth disturbing activity as necessary, to minimize the discharge of pollutants that may impact neighboring properties.	1. Review current earthwork permit to amend, modify, or change to reflect any new requirements if needed	Planning and Development Department, Engineering Division	Year 1
		2. Issue permits as required		Years 2 – 5
<b>3.3 Construction Site Inspection and Enforcement Program</b>	Assess and revise as needed the current inspection program. Review current staffing and training capabilities and adjust accordingly to comply with the new MS4 General Permit and to the extent allowable by state, federal, and local law. Compliance with the Stormwater Ordinance will be ensured by the use of non-monetary penalties, citations, permit denial, stop work orders, and holding of Certificate of Occupancy until full compliance has been achieved. Inspect construction sites to determine the condition and effectiveness of the required control measures that have been selected, installed, implemented and maintained in accordance with Federal, State, and Local requirements.	1. Revise and implement, as necessary, written procedures outlining the inspection, enforcement, and staffing requirements	Planning and Development Department, Engineering Division	Year 1
		2. Complete training of all departmental construction site inspectors. Initiate a program to formally train new inspectors by the end of their first year of their inspection assignment		Years 2 – 3
		Conduct construction site inspections, document observed violations, and provide follow-up inspections within 7 days of the notice of violation, ensuring enforcement of permit provisions		Years 3 – 5
<b>3.4 Construction Ordinance</b>	Review current Stormwater Construction Ordinance and Unified Development Code. Revise, modify, and implement as needed to meet the requirements as described in the Small MS4 General Permit.	1. Conduct review of Stormwater Ordinance and Unified Development Code to evaluate if	Planning and Development Department, Engineering Division	Years 1 – 2

		sediment and erosion control requirements address Small MS4 General Permit requirements		
		2 Finalize Ordinance and UDC Article 14 revisions, if applicable		Year 3
<b>3.5 Public Input for Stormwater Construction Activity</b>	Implement a program for receiving calls or input regarding sediment, erosion, and/or other construction related activities, routing calls to appropriate personnel for proper response, documenting subject of call for future analysis, and training of staff to follow reporting and response procedures.	1. Revise and implement, as necessary, written procedures for receiving input, responding to input, and documenting input	Planning and Development Department	Years 1 – 5
		2. Train staff on reporting and response procedures		
		3. Implement procedures		
<b>3.6 Construction Site Inventory</b>	Develop and maintain a list or inventory of all permitted active construction sites that result in a total land disturbance of one acre or more or that result in a total land disturbance of less than one acre if part of a larger common plan of development or sale that results in a total land disturbance of one acre or more.	1. Develop procedures to develop and maintain an inventory of applicable construction sites	Planning and Development Department, Engineering Division	Years 1 – 5
		2. Retain the construction site inventory so an active inventory can be made available to TCEQ upon request		

## MCM 4. Post-Construction Management in New Development and Redevelopment

**40 CFR 122.34 (b) (5) - Develop, implement, and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale that will result in disturbance of one acre or more acres, that discharge into our MS4 ensuring that controls are in place that would prevent or minimize water quality impacts; develop and implement strategies which include a combination of structural and/or non-structural best management practices (BMPs) appropriate for our community; 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 insure adequate long-term operations and maintenance of BMPs.**

The following selected BMPs for Post-Construction Management in New Development and Redevelopment apply to 1) new development / redevelopment activities of one acre and greater and 2) new development / redevelopment activities at sites that are part of a larger common plan of development (where the total disturbed area is equal to one acre or greater).

BMP	BMP Description	Measurable Goals	Responsibility	Target Date
<b>4.1 Review New Site Development and Redevelopment Plans</b>	Require designers of new site development and redevelopments to include water quality considerations and proposed approved BMPs. Any and all amendments to the site plan review procedures shall be in accordance to the Stormwater Ordinance and post construction operation and maintenance requirements.	1. Review water quality considerations and proposed approved BMPs in engineering plan submittals	Planning and Development Department, Engineering Division	Years 1 – 5
<b>4.2 Stormwater Policies for Development and Redevelopment in the Unified Development Code and Stormwater Ordinances</b>	Re-evaluate and revise the current Unified Development Code and/or Stormwater Ordinances as needed to include requirements and revisions to support water quality objectives and post construction BMP maintenance initiatives.	1. Review, evaluate and revise current Unified Development Code and/or Stormwater Ordinances and make recommendations, as needed	Planning and Development Department	Years 1 – 2

<p><b>4.3 Inspections of Post-Construction Control Measures</b></p>	<p>Identify, inventory, and inspect post-construction stormwater controls (i.e., detention/retention pond facilities) for City and privately owned properties. Document the results of the inspections including follow-up and/or enforcement actions, as applicable.</p>	<p>1. Review and update inspection program as necessary to ensure inspectors are trained, facility inspections are documented in an inspection report, and identified issues are resolved with follow-up and/or enforcement action taken to confirm resolution. Retain documentation of follow-up and/or enforcement actions to be made available to TCEQ upon request</p>	<p>Planning and Development Department</p>	<p>Years 1 – 5</p>
<p><b>4.4 Long Term Operation and Maintenance of BMPs</b></p>	<p>For City owned or operated structural control facilities and privately owned structural control facilities required by the Unified Development Code and/or Stormwater Ordinances, the City will either maintain the structural controls or require a maintenance plan to be filed in real property records of the county by the private entity. For privately owned structural control facilities, the City will evaluate if the structural control facilities are maintained and operated as intended.</p>	<p>1. Maintain City owned or operated structural control facilities, as needed, to maintain their function, and document the maintenance activities. Review water quality protection considerations in maintenance plans required to be filed in the real property records by the Unified Development Code and/or Stormwater Ordinances</p>	<p>Planning and Development Department, Engineering Division</p>	<p>Years 1 – 5</p>

## MCM 5. Pollution Prevention/Good Housekeeping for Municipal Operations

**40 CFR 122.34 (b) (6) –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.**

BMP	BMP Description	Measurable Goals	Responsibility	Target Date
<b>5.1 Storm Sewer System Operation and Maintenance for the City of Grand Prairie (TMDL)</b>	Implement an O&M program to reduce pollutants in the MS4. Conduct maintenance along the inlets, ditches, pipes, and channels for structural improvements when noted through citizen complaints and through field observations.	1. Maintain a computer maintenance and management system to track maintenance and complaint responses	Public Works Department, Streets Division	Years 1 – 5
		2. Respond to 80% of citizen complaints and input information into City Works Management System		Years 1 – 5
		3. Track storm sewer and drainage maintenance through City Works Management System		Years 1 – 5
<b>5.2 Disposal of Waste Removed from the MS4 for the City of Grand Prairie (TMDL)</b>	Maintain standard operating procedure for the disposal of waste removed from the MS4.	1. Maintain SOP for waste disposal	Environmental Services, Environmental Quality and Solid Waste Division	Years 1 – 5
		2. Ensure compliance with 30 TAC Chapters 330 and 335		Years 1 – 5

<b>5.3 Storm Sewer and Drainage Maintenance Program for the Dallas County Flood Control District #1 (excluding the City of Grand Prairie – see BMP 5.1) (TMDL)</b>	Conduct maintenance and improvements for the drainage components owned by the Dallas County Flood Control District #1 when noted through written complaints and through field observations.	1. Respond to written complaints within the District	Dallas County Flood Control District #1	Years 1 – 5
		2. Perform annual maintenance reviews and prepare report		Years 1 – 5
		3. Make necessary repairs to District facilities		Years 1 – 5
<b>5.4 Disposal of Waste Removed from the MS4 for the Dallas County Flood Control District #1 (excluding the City of Grand Prairie – see BMP 5.2) (TMDL)</b>	Maintain a standard operating procedure for the disposal of waste removed from the Dallas County Flood Control District #1's stormwater system.	1. Maintain a SOP for waste disposal	Dallas County Flood Control District #1	Years 1 – 5
<b>5.5 List Potential Problem Areas for Inspection (TMDL)</b>	Develop a list of potential problem areas, then identify and prioritize areas for increased inspection (i.e. illegal dumping).	1. Develop a list of potential problem areas	Planning and Development Department, Code Enforcement Division	Year 2
		2. Identify and prioritize problem areas for increased inspection		Year 3-5
<b>5.6 Street Operation and Maintenance (TMDL)</b>	Remove solid pollutants from the streets to avoid contamination of the storm sewer system and dispose of properly to avoid reentry into the MS4.	1. Sweep business district, thoroughfares and some public parking lots on an annual basis and more often on high traffic roads	Environmental Services Department, Solid Waste Division	Years 1 – 5

		2. For paved areas outside of the sweeping program, the City will focus implementation of other trash and litter control procedures or provide inlet protection measures		Years 1 – 5
		3. The City will require that all non-prohibited materials be disposed of at a Type I landfill		Years 1 – 5
<b>5.7 Educating and Training City Field Staff</b> <i>(TMDL)</i>	Inform or train appropriate employees involved in implementing pollution prevention and good housekeeping practices (see also BMP 2.14).	1. Determine effective means of disseminating stormwater training video to field staff	Environmental Services Department, Environmental Quality Division	Year 2
		2. Disseminate stormwater training video to field staff and keep materials and attendance lists at the Environmental Quality Division office		Year 3
		3. Create and provide vehicle card or decal with contact information in the event staff observes an illicit discharge		Year 3

		4. Purchase and distribute IDDE posters for display in applicable facility buildings		Year 3
<b>5.8 Stormwater Management Program Data Tracking</b>	Track all City activities related to the Stormwater Management Program through a data tracking program. Software will be used to assist with the tracking.	1. Purchase and use software	Environmental Services Department, Environmental Quality Division	Year 1
		2. Create annual report		Years 1 – 5
<b>5.9 Contractor Compliance</b>	Ensure contractors performing maintenance on City facilities meet program requirements and are provided oversight.	1. Create a contract for contractors hired by the City whose work has the potential to discharge pollutants into the MS4	Planning and Development Department	Year 3
		2. Contractually require contractors to comply with stormwater controls, good housekeeping practices, and facility specific stormwater management procedures		Year 4
		3. Develop oversight procedures to ensure contractors are using appropriate control measures and SOPs		Year 5
<b>5.10 Pollution Prevention for City Operation and Maintenance (O&amp;M) Activities</b>	Develop pollution prevention measures for City O&M activities. Perform inspections to ensure measures are working properly.	1. Determine and list City O&M activities that have the potential to discharge pollutants into the MS4	Environmental Services Department, Environmental Quality Division	Year 2

		2. Identify and list possible pollutants of concern from aforementioned O&M activities		Year 2
		3. Develop and implement pollution prevention measures for the O&M activities		Year 3
		4. Annually inspect pollution prevention measures and keep a log of inspections		Years 4 – 5
<b>5.11 Structural Control Maintenance</b>	Ensure proper maintenance of structural controls on City owned facilities.	1. Annually inspect structural controls and maintain as needed to ensure effectiveness	Environmental Services Department, Public Works Department, Parks and Recreation Department	Years 4 – 5
<b>5.12 Mapping Facilities</b>	Identify the locations of City owned and operated facilities and stormwater controls.	1) Determine locations of City owned and operated facilities and stormwater controls	Environmental Services Department, Environmental Quality Division	Year 2
		2) Map locations in GIS		Year 3
<b>5.13 Mosquito Management Program</b>	Maintain mosquito management methods that will not result in illicit discharges to the MS4.	1. Maintain integrated mosquito management methods when handling and applying pesticides	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Use low toxicity bio-controls for larvae control		Years 1 – 5

<b>5.14 Facility Inventory</b>	Develop and maintain a facility and stormwater control inventory for City owned and operated facilities.	1. Develop a list of City facilities that have the potential to discharge pollutants into the MS4	Environmental Services Department, Public Works Department, Parks and Recreation Department	Year 2
		2. Develop a list of stormwater controls for each facility		Year 3
		3. Include applicable permit numbers, registration numbers, and authorizations for each facility or control		Year 3
<b>5.15 Facility Assessment</b>	Identify high priority facilities and document results.	1. Review facilities identified in BMP 5.14 for potential to discharge pollutants into stormwater	Environmental Services Department, Public Works Department, Parks and Recreation Department	Year 4
		2. Identify high priority facilities, including City maintenance yards and fuel storage locations. Use checklist during assessment		Year 4
		3. Document results. Maintain copies of site evaluation checklists and any identified deficiencies and corrective actions taken		Year 4

<b>5.16 Facility Specific SOPs</b>	Develop facility specific stormwater management SOPs to minimize discharge of pollutants into stormwater.	1) Develop SOP, or maintain equivalent existing plan, for each facility identified in BMP 5.15. SOP or plan will identify BMPs to be installed, implemented, and maintained	Environmental Services Department, Public Works Department, Parks and Recreation Department	Year 5
		2) Update the plan and make available for review by the TCEQ		Year 5
<b>5.17 Stormwater Controls for High Priority Facilities</b>	Implement specific stormwater controls at high priority facilities identified in BMP 5.15.	1) Include in SOPs (BMP 5.16) stormwater controls for 1) good housekeeping, 2) de-icing and anti-icing material storage, 3) fueling operations and vehicle maintenance, and 4) equipment and vehicle washing	Environmental Services Department, Public Works Department, Parks and Recreation Department	Year 5
<b>5.18 Inspect City Facilities</b>	Inspect high priority City facilities identified in BMP 5.15 for Best Management Practices.	1. Create inspection form for City facilities	Environmental Services Department, Environmental Quality Division	Year 4
		2. Inspect high priority facilities identified in BMP 5.15 annually		Years 4 – 5
<b>5.19 Pesticide, Herbicide, and Fertilizer Application and Management</b>	Evaluate landscape and pesticide management for City owned and operated areas and ensure proper management techniques are being implemented in order to decrease pollutants to the MS4.	1. Evaluate materials used and activities performed for pollution prevention opportunities	Environmental Services Department, Environmental Quality Division	Year 3

		2. Educate pesticide, fertilizer, and herbicide applicators and distributors on proper management techniques and ensure necessary certifications and permits are obtained		Years 2 – 5
		3. Maintain SmartScape gardens at Water Utilities and Prairie Paws facilities		Years 1 – 5
		4. When applicable, include chemical application schedule in landscape and pesticide contracts to minimize discharges of pollutants due to irrigation or expected precipitation		Years 4 – 5
		5. Properly collect and dispose of unused pesticide, herbicide, and fertilizer		Years 1 – 5

## MCM 6. Industrial Stormwater Sources

**Phase I stormwater regulation, found at 40 CFR §§122.26(d)(2)(i)(B,C,E, and F), 122.26(d)(2)(iv), and 122.26(d)(2)(iv)(A), requires permittees to develop and implement an inspection and oversight program to monitor and control pollutants in stormwater discharges from industrial facilities. The Phase II permit now includes an Industrial Stormwater Sources MCM for small MS4s that serve a population of 100,000 or more within an urbanized area.**

BMP	BMP Description	Measurable Goals	Responsibility	Target Date
<b>6.1 Stormwater Industrial Inspection Program</b>	Require that facilities comply with any NPDES or TPDES stormwater permit applicable under the SIC code.	1. Continue to provide 75% of industries the applications for coverage, when applicable	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Enforce failure to apply for or obtain permit coverage		Years 1 – 5
		3. Perform inspections once every 3 years to ensure compliance with the stormwater permit and to ensure control measures for discharges are met		Years 1 – 5
<b>6.2 Existing SWP3s</b>	Three existing SWP3s are maintained for the Airport, the Landfill, and the Service Center, as required by the general permit TXR05000.	1. Ensure compliance with, maintain, and update SWP3s for the permits at the three existing regulated facilities	Environmental Services Department, Environmental Quality Division	Years 1 – 5

		2. Review the SWP3s annually for any changes required		Years 1 – 5
		3. Inspect all three sites annually		Years 1 – 5
		4. Ensure that required annual SWP3 training is conducted		Years 1 – 5