



Stormwater Management Program

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



TPDES General Permit TXR040000
2019-2023

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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 _{SW}	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 and January 24, 2019. 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 194,614 in 2018.

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 polychlorinated 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.
- Develop procedures describing the basis for conducting inspections in response to complaints and conducting follow up inspections.
- Develop procedures for conducting dry weather screening.
- Maintain two locations where floatable materials can be removed before the stormwater is discharged to or from the MS4.

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.
- Develop SOP describing the frequency of city facility inspections and how they will be conducted.
- Assess inventoried flood control projects' impacts on the receiving water.
- Design, construct and maintain new flood control projects to prevent erosion and pollutant removal from stormwater. Retrofit existing flood control structures to MEP to provide pollutant removal from stormwater

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 <https://www.gptx.org/city-government/city-departments/environmental-services/environmental-quality/stormwater/storm-water-management-program>. Opportunity to comment is available on the website by return address to crana@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 15, 2019. 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 1st, 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, 2019. 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 December 11, 2013, TCEQ Commissioners approved the final version of the *Implementation Plan for Seventeen Total Maximum Daily Loads for Bacteria in the Greater Trinity River Region* (I-Plan) to the TCEQ.

On November 2, 2016 the TCEQ adopted Four Total Maximum Daily Loads for Indicator Bacteria in the Cottonwood Creek, Fish Creek, Kirby Creek, and Crockett Branch Watershed Upstream of Mountain Creek Lake (Segments 0841F, 0841K, 0841N, and 0841V, Assessment Units 0841f_01, 0841K_01, 0841N_01, and 0841V_01). The EPA approved them on December 7, 2016. On January 16, 2019, the TCEQ adopted One TMDL Total Maximum Daily Loads for Indicator Bacteria in the Sycamore Creek (Segment 0806E; Assessment Unit 0806E_01). The EPA approved it on March 27, 2019. The revised *Implementation Plan for Twenty Two Total Maximum Daily Loads for Bacteria in the Greater Trinity River Region* (I-Plan) dated June 2019 includes the aforementioned tributaries. The City will implement this recently revised 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_{sw}) identified in the *Twenty Two 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 _{wwTf} ^a	WLA _{sw} ^b	LA ^c	MOS ^d
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

^aWLA_{WWTfa} = WLA for wastewater treatment facilities includes the future potential allocation

^bWLA_{SW} = WLA for permitted stormwater

^cLA = (load allocation) = the amount of pollutant allowed by unregulated sources

^dMOS = 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 are pollutant of concern.

Endangered Species Act:

Based on the comments received from the TCEQ, during the water quality standards review the following endangered species was identified in the receiving waterbodies of the MS4.

Common Name	Species	Receiving Waterbody
Navasota ladies'-tresses	<i>Spiranthes parksii</i>	Trinity River Basin

According to the information posted on Texas Parks and Wildlife Department (TPWD) website, the federally and state endangered species listed above has only been found in Freestone, Limestone, Leon, Robertson, Madison, Milam, Brazos, Grimes, Burleson, Washington, Bastrop and Fayette counties. Using the scientific and research data available on the TPWD's website, City of Grand Prairie has determined that the stormwater discharges and discharge related activities will have no effect on the endangered listed species or it's designated critical habitat under the jurisdiction of the City.

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, 2019**, Year 2 completion date is **December 31, 2020**, Year 3 completion date is **December 31, 2021**, Year 4 completion date is **December 31, 2022**, and Year 5 completion date is **December 31, 2023**. BMPs with more than one year listed will be completed for each year listed.

Bacteria is a high priority 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
1.1 Household Hazardous Waste (HHW) Program (TMDL)	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 opportunity to	1. Distribute 100 pamphlet and/or wheel distribution at the Development Center	Environmental Services Department, Environmental	Years 1 – 5

	dispose of household hazardous waste.	2. Discuss hazards of household hazardous waste at least 1 time per year in a City newsletter	Quality Division	Years 1 – 5
		3. Handout HHW magnets to at least 100 citizens per year		Years 1 – 5
		4. Conduct one review of the contract with Forth Worth that allows Grand Prairie citizens to drop off HHW at the Environmental Collection Center		Year 1
		5. Annually hold at least 1 HHW collection event in Grand Prairie		Years 1-5
1.2 Pet Waste Management Education and Involvement (TMDL)	Promote awareness of the hazards to health and the environment from pet waste through several forms of outreach.	1. Annually distribute a minimum of 200 informative brochures at the Development Center and/or at educational events	Environmental Services Department, Environmental Quality Division and Animal Services Division	Years 1 – 5
		2. Install 2 pet waste collection dispensers at any future pet park to promote proper owner disposal of pet waste		Year 4
1.3 Environmental Compliance Workshops (TMDL)	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 and provide recognitions when appropriate.	Environmental Services Department, Environmental Quality Division	Years 1 – 5

1.4 Commercial and Industrial Activity Education on the Impacts of Floatables <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	Years 1 – 5
		2. 80% of the informative brochures will be available on the City website		Years 1-5
1.5 Informational Material for Automotive Related Businesses(ARB) <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 100% of Certificate of Occupancy inspections.	Environmental Services Department, Environmental Quality Division, Code Enforcement	Years 1 – 5
		2. Publish Auto related business BMPs once during the permit term on the City’s website.		Year 1
		3. Create mailing list of ARB and industrial facilities and electronically mail out annually informative material regarding stormwater BMPs to 100% of the ARB mailing list.		Years 1- 5
		4. Create and distribute a water quality and code enforcement “AutoWatch” publication featuring environmental issues specific to automotive related businesses to at least 300 businesses annually.		Years 1-5

1.6 Funding for Elementary School Curriculum on Stormwater Quality <i>(TMDL)</i>	Education on stormwater quality and pollution prevention will be provided as requested to elementary schools in Grand Prairie ISD through the purchase of curriculum.	1. Respond to 100% of the Grand Prairie ISD requests and purchase Major Rivers© or similar curriculum	Environmental Services Department, Environmental Quality Division	Years 1 – 5
1.7 Pipeline Newsletter <i>(TMDL)</i>	Raise awareness of stormwater issues for citizens by placing articles in the City’s newsletter.	1. Annually distribute information about stormwater issues in the city’s newsletter “Pipeline” to 80% of the City’s customers	Environmental Services Department, Environmental Quality Division	Years 1 – 5
1.8 Multimedia Stormwater Public Education <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 1 – 5			
3. One time publish Stormwater Pollution Prevention information on the City's website	Year 1			
4. Require 90 % of the new employee to view stormwater related video	Years 1 – 5			

		5. Annually review the number of the views of <i>Find Your Watershed</i> hyperlink on the City's website, where citizens can enter their address and find out their watershed.		Years 1-5
1.9 Tailor Outreach Programs to non-English languages <i>(TMDL)</i>	Provide educational materials are translated into Spanish.	1. Provide 50% of educational materials in Spanish.	Environmental Services Department, Environmental Quality Division	Years 1 – 5
1.10 Storm Drain Markers <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 1 – 5

1.11 Public Education Event <i>(TMDL)</i>	Hold an educational event that demonstrates the effects of various residential and commercial pollutants on stormwater quality and 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 1 – 5
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1.12 Clean Rivers Program	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. Annually review the number of times the link for Clean Rivers Program was viewed by visitors on the City's website.	Environmental Services Department, Environmental Quality Division	Years 1 – 5
1.13 Don't Bag It! Program	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 city newsletter to 80% of the City's water customers		Years 1 – 5
1.14 H₂O Line	Produce and distribute a newsletter to selected industrial sectors featuring stormwater topics.	1. Produce and distribute a newsletter promoting pollution prevention awareness to at least 200 businesses annually	Environmental Services Department, Environmental Quality Division	Years 1-5
1.15 Educational Material for Construction Site Personnel	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

1.16 Public Notice in Development of SWMP	Comply with federal, state, and local public notice requirements when implementing the SWMP.	1. Make the SWMP available for comments on the City website (https://www.gptx.org/city-government/city-departments/environmental-services/environmental-quality/stormwater/storm-water-management-program), at the Environmental Services Department office, and at the Main Grand Prairie Library. Annually record the number of comments received.	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
1.17 Texas Stream Team Volunteer Stream Monitoring Program	Involve volunteers in the stream monitoring process through Texas Stream Team.	1. Respond to 100% Texas Stream Team training request and hold training sessions for volunteers or corporations.	Environmental Services Department, Environmental Quality Division	Years 2 – 5
1.18 Master Composter Program	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 at least 1 Master Composter class per year	Environmental Services Department, Solid Waste Division	Years 1 – 5
		2. Distribute yard care educational materials to 100 % of class participants		Years 1 – 5

1.19 Illegal Dumping Hotline (TMDL)	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. Publish one Illegal Dumping Hotline available on the City's Code Enforcement website	Planning and Development Department, Code Enforcement Division, Environmental Services Department, Environmental Quality Division	Year 1
1.20 Stakeholder Meetings and Task Force Groups	Keep citizens and other stakeholders involved in the decision process for managing the Stormwater Management Program and share information to help develop stormwater programs by participating in stormwater related committees or task force groups through NCTCOG.	1. Hold, or participate in through NCTCOG, one stakeholder meeting per year	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		1. Sit on at least one stormwater committee or task force group annually		Year 1- 5
1.21 Neighborhood Outreach Program	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
1.22 School Outreach Programs	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
1.23 Annual Environmental Compliance Achievement Awards	Encourage industrial facilities to obtain industrial permit as required by the SIC code.	1. Annually recognize facilities who achieve 100% compliance.	Environmental Services, 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
2.1 Maintain a GIS Database of the MS4 (TMDL)	Maintain an updated map of the locations of all outfalls location of MS4 owned or operated facilities, stormwater controls and the names of all receiving US surface waters.	1. Update drainage system map, including outfalls; using as built, aerial images, and/or through field verification once during the permit term.	Environmental Services Department, Environmental Quality Division and Information Technology Department, GIS Division	Year 3
2.2 Priority Areas (TMDL)	Update priority areas within the city likely to have an illicit discharge	1. Document the process for selection of priority areas once during the permit term.	Environmental Services Department, Environmental Quality Division	Year 1
		2. Update priority areas map.		Year 2
2.3 Dry Weather Field Screening (TMDL)	Develop and implement a program to detect and address non-stormwater discharges, including illegal dumping, into the storm sewer system.	1. Revise 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 1-5
2.4 Complaint Response and Database <i>(TMDL)</i>	Investigate all citizen complaints and maintain a database of all citizen complaints regarding illicit discharges.	1. Document 100% of citizen complaints using the complaint database	Environmental Services Department	Years 1 – 5
		2. Maintain a response of 80% within 5 days		Years 1 – 5
2.5 Illicit Discharge and Spill Procedures <i>(TMDL)</i>	Develop and maintain procedures for responding to illicit discharges and spills.	1. Respond to 100% spill complaints following standard operating procedures spills	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Respond to 100% of the illicit discharges complaints.		Years 1 – 5
2.6 Source Investigation and Elimination <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 of 100% of illicit discharge to identify and locate illicit discharges as soon as practicable and document all observations, field and lab measurements, and follow up investigation reports.	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Report to the TCEQ 100% of all illicit discharges/spills believed to be an immediate threat to human health or the environment		Years 1 – 5

		3. Notify 100% of the responsible party and require the responsible party to take all corrective actions necessary		Years 1 – 5
		4. Notify 100% of all 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 100% of illicit discharges follow-up investigation to ensure discharge has been eliminated.		Years 2 – 5
2.7 Spill Response (TMDL)	Coordinate with the Fire Department on emergency spill response.	1. Respond to 100% of the emergency spill call. Conduct six (6) emergency responder meetings in a year for continued training.	Environmental Services Department	Years 1 – 5
2.8 Structural control for floatables	Reduce discharge of floatables (example litter or other human generated solid refuse) in the MS4.	1. Identify two locations in MS4 to install structural control	Environmental Services Department and Public Works Department	Year 2
		2. Identify 2 appropriate structural control to reduce discharge of floatables in the previously identified locations		Year 3
		3. Install the two selected structural controls		Year 4

		4. Collect floatable materials from the structural control twice a year.		Year 5
		5. Record 100% of the amount of material collected either by weight, volume or other practical means.		Year 5
2.9 Building Project Review Process <i>(TMDL)</i>	Environmental Specialist reviews and inspects for any illicit connections or water quality hazards during the building project review process.	1. Review at least 80% of new commercial construction plans for water quality hazards	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Inspect at least 80% of Certificates of Occupancy that have a potential to impact stormwater		
2.10 Illegal Dumping Hotline and Clean-up <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. Publish one Illegal Dumping Hotline available on the City’s Code Enforcement and one on Environmental Services website.	Planning and Development Department, Code Enforcement Division, Environmental Services Department, Environmental Quality Division	Year 1
		2. Annually publish at least one article with information on illicit discharges and contacts for reporting illicit discharges in the City’s Newsletter “Pipeline”. Pipeline is mailed to the Citizens with the water bill.		Years 1 – 5

		3. Remove 80% of illegally dumped debris in at least 30 days from the day the violation was reported		Years 1 – 5
2.11 Stream Sampling (TMDL)	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
2.12 Sanitary Sewer Overflow Response Plan (TMDL)	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. Water Utilities and Environmental Services to respond to 80% of the reported SSOs	Environmental Services Department, Public Works Department, Water Utilities Division	Years 1 – 5
2.13 Illicit Discharge Awareness Campaign for Businesses and General Public (TMDL)	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 1 – 5
2.14 Educating and Training City Field Staff (TMDL)	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. Disseminate IDDE training video to 80% of the new field staff and keep materials and attendance lists at the Environmental Quality Division office	Environmental Services Department, Environmental Quality Division	Years 1-5
		2. Annually provide 250 vehicle decals with contact information		Years 1-5

		3. Purchase and distribute IDDE posters for display in 100% of the applicable facility buildings.		Year 1
2.15 Stormwater Ordinance (TMDL)	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	1. Conduct one review and update the stormwater ordinance and prepare for Council approval.	Environmental Services Department, Environmental Quality Division	Year 3
	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.	2. If revised, implement revised ordinance once during the permit term.		Year 3
2.16 Litter Collection Program (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
2.17 Beach Sampling Program (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
2.18 On Site Sewage System Permitting (TMDL)	On site sewage systems are regulated through an ordinance and permitted by the City. Failing septic systems are identified and abated.	1. Keep record of 100% of the permitted 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

2.19 Auto Inspection Program <i>(TMDL)</i>	Inspect auto-related businesses for water quality issues on an annual basis.	1. Inspect at least 80% of auto-related businesses annually	Environmental Services Department, Environmental Quality Division	Years 1 – 5
2.20 Grease Trap Pumping <i>(TMDL)</i>	In order to reduce the number of illicit discharges, ensure grease traps are being pumped as required.	1. Inspect at least 80% of the food service businesses to ensure frequency of pumping requirements are met.	Environmental Services Department, Environmental Quality Division	Years 1-5
2.21 Horse Stables <i>(TMDL)</i>	Ensure private horse stables are maintained properly so that sources of bacteria are reduced.	1. Perform annual inspections 90% of private horse stables and ensure good housekeeping practices are implemented	Environmental Services Department, Environmental Quality Division, Animal Services Division, Planning and Development Department, Code Enforcement Division	Year 1 - 5
		2. Prepare and distribute horse manure management guidelines for horse stables and distribute the guidelines during inspections.		Years 1- 5
2.22 Joe Pool Lake (JPL) Watershed Protection Plan <i>(TMDL)</i>	Collaborate with Trinity River Authority to establish an analytical framework for managing water quality and produce plans of action to address water quality issues within Joe Pool Lake Watershed.	1. Attend 90% of scheduled JPL watershed protection plan meetings to develop monitoring strategy, selection of appropriate and applicable methods for quantification of load reduction targets.	Environmental Services Department, Environmental Quality Division	Years 2-5
		2. Apply at least one best management practice (BMP) identified in the Protection Plan throughout the watershed to reach these load reduction targets.		Year 5
2.23 Sanitary Sewer Systems <i>(TMDL)</i>	Ensure sanitary sewers are functioning properly in order to reduce overflows.	1. Make 80% of the necessary improvements to sanitary sewers and lift stations.	Environmental Services Department, Environmental Quality Division, Public Works Department, Water	Years 1-5

		2. Ensure 100% of overflows are reported in compliance with state requirements.	Utilities Division	Years 1-5
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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
3.1 Construction Plan Review	Conduct plan reviews for construction projects to evaluate temporary erosion and sediment control measures and BMPs in accordance with the TPDES Construction General Permit, local ordinances regulating stormwater discharges from construction activities, and all other applicable state and federal stormwater quality regulations.	<ol style="list-style-type: none"> 1. Review 100% of plan submittals for sites with an area of one acre or more or part of a larger common plan of development of one acre or more prior to start of construction. 2. Maintain one copy of final plan review documentation for 100% of plan submittals. 	Planning and Development Department, Engineering Division	Years 1-5

BMP	BMP Description	Measurable Goals	Responsibility	Target Date			
	Maintain written procedures for City review of construction plans, including provisions for training new plan review staff.	<ol style="list-style-type: none"> 1. Operate under existing procedures until approval of SWMP by TCEQ. 2. Conduct one review, and update if necessary, of the existing procedures for City review of the erosion control plan for potential impacts to stormwater quality by December. 3. Record date of review and 100% of changes to procedures in one memo to file by December. 4. Implement 100% of the updated procedures by the end of the permit term. 5. Maintain one copy of written City procedures onsite or in Stormwater Management Program by the end of the permit term. 		<table border="1"> <tr> <td data-bbox="1829 186 2007 253">Year 1</td> </tr> <tr> <td data-bbox="1829 253 2007 526">Year 2</td> </tr> <tr> <td data-bbox="1829 526 2007 760">Year 3-5</td> </tr> </table>	Year 1	Year 2	Year 3-5
Year 1							
Year 2							
Year 3-5							
3.2 Construction Site Inspection and Enforcement	Maintain written procedures for City-led inspections of large and small construction projects, including provisions for training new construction inspectors.	<ol style="list-style-type: none"> 1. Operate under existing procedures until approval of SWMP by TCEQ. 2. Conduct one review, and update if necessary, of the existing procedures for City-led inspections of large and small construction projects by December. 3. Record date of review and 100% of changes to procedures in one memo to file by December. 4. Implement 100% of the updated procedures by the end of the permit term. 5. Maintain one copy of written City procedures onsite or in Stormwater Management Program by the end of the permit term. 	Planning and Development Department, Engineering Division	<table border="1"> <tr> <td data-bbox="1829 760 2007 828">Year 1</td> </tr> <tr> <td data-bbox="1829 828 2007 1101">Year 2</td> </tr> <tr> <td data-bbox="1829 1101 2007 1334">Year 3-5</td> </tr> </table>	Year 1	Year 2	Year 3-5
Year 1							
Year 2							
Year 3-5							

BMP	BMP Description	Measurable Goals	Responsibility	Target Date
	Conduct inspections of small and large construction sites within the MS4 according to City procedures and ordinances.	<ol style="list-style-type: none"> 1. Conduct at least one site inspection per month of 100% of construction sites with approved Stormwater Pollution Prevention Plan (sites with an area of 1 acre or more or part of a larger common plan of development of one acre or more) during active construction. 2. Maintain one copy of each completed construction site inspection report. 	Planning and Development Department, Engineering Division	Year 1-5
	Enforce correction for violations of (City “erosion control” ordinance provisions/TPDES Construction General Permit TXR150000).	<ol style="list-style-type: none"> 1. Conduct follow-up action (i.e., inspection or enforcement) for 100% of sites with observed violations within 10 business days. 	Planning and Development Department, Engineering Division	Year 1-5
3.3 Construction Ordinance	Review and update municipal ordinances to ensure compliance with MS4 permit requirements for construction site stormwater.	<ol style="list-style-type: none"> 1. Operate under existing ordinances until approval of SWMP by TCEQ. 	Planning and Development Department, Engineering Division	Year 1
		<ol style="list-style-type: none"> 2. Record date of review of ordinance and 100% of the necessary changes in one memo to file by December. 		Year 2
		<ol style="list-style-type: none"> 3. Update 100% of the Year 2 recommended changes to the ordinance language by December. 4. Record 100% of the changes to the ordinances in the annual report within 90 days of the end of the reporting period. 		Year 3
		<ol style="list-style-type: none"> 5. Enforce 100% of the updated construction ordinance by the end of permit term. 		Years 4-5

BMP	BMP Description	Measurable Goals	Responsibility	Target Date
3.4 Construction Site Stormwater Reporting by Public	Facilitate stormwater quality reporting by the public related to discharges from construction site activity.	<ol style="list-style-type: none"> 1. Maintain at least 1 mechanism for the public to submit stormwater quality complaints regarding stormwater discharges from active construction sites. 2. Ensure the stormwater reporting mechanism is publicly accessible at least 95% of the time. 3. Respond to 90% of stormwater quality reports relating to discharges from construction activity within 2 business days; if the confirmed report concerns an immediate threat to human health or the environment, respond within 24 hours. 	Planning and Development Department, Engineering Division	Year 1-5
	Maintain written procedures for facilitating stormwater quality reporting by the public and responding to reports of construction site stormwater quality concerns.	1. Operate under existing procedures until approval of SWMP by TCEQ.	Planning and Development Department, Engineering Division	Year 1
		<ol style="list-style-type: none"> 1. Conduct one review, and update if necessary, of the existing procedures for facilitating stormwater quality reporting by the public and responding to reports of construction site stormwater quality concerns by December. 2. Record date of review and 100% of changes to procedures in one memo to file by December. 		Year 2
		<ol style="list-style-type: none"> 1. Implement 100% of the updated procedures by the end of the permit term. 2. Maintain one copy of written City procedures onsite or in Stormwater Management Program. 		Years 3-5

BMP	BMP Description	Measurable Goals	Responsibility	Target Date
3.5 Construction Site Inventory	Maintain one inventory of all TPDES/NPDES permitted active public and private construction sites that result in a total land disturbance of one or more acres or a total land disturbance of less than an acre if part of a larger common plan or development or sale.	<ol style="list-style-type: none"> 1. Add construction sites to inventory within 10 business days of acceptance of SWP3. 2. Remove from inventory within 10 days of final acceptance. 3. Maintain one copy of each Notice of Intent (NOI)/ Construction Site Notice for construction activity received by the City. 	Planning and Development Department, Engineering Division	Year 1-5
	Maintain written procedures for maintenance of a construction site inventory.	<ol style="list-style-type: none"> 1. Operate under existing procedures until approval of SWMP by TCEQ. 		Year 1
		<ol style="list-style-type: none"> 2. Conduct one review, and update if necessary, of the existing procedures for maintenance of a construction site inventory by December. 3. Record date of review and 100% of changes to procedures in one memo to file by December. 		Year 2
		<ol style="list-style-type: none"> 4. Implement 100% of the updated procedures by the end of the permit term. 5. Maintain one copy of written City procedures onsite or in Stormwater Management Program. 		Years 3-5

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
4.1 Post-Construction Plan Review	Review site plans for post-construction water quality considerations, including considerations for detention and retention facilities.	<ol style="list-style-type: none"> 1. Review 100% of plan submittals for sites with an area of one acre or more or part of a larger common plan of development of one acre or more prior to start of construction. 2. Maintain one copy of final plan review checklist for 100% of plan submittals. 	Planning and Development Department, Engineering Division	Years 1-5
	Continue to enforce requirements for maintenance agreements for privately-owned structural controls to be filed in the real property records of the county.	<ol style="list-style-type: none"> 1. Review maintenance agreements for 100% of sites with private structural controls. 2. Record 100% of maintenance agreements prior to final acceptance. 		
	Maintain written procedures for City review of site plans for post-construction water quality considerations and enforcement of maintenance agreements for privately- owned structural controls.	<ol style="list-style-type: none"> 1. Operate under existing procedures until approval of SWMP by TCEQ. 2. Conduct one review, and update if necessary, of the existing procedures for post-construction plan review and enforcement of maintenance agreements by December. 3. Record date of review and 100% of the changes to procedures in one memo to file by December. 4. Implement 100% of the updated procedures by the end of the permit term. 5. Maintain one copy of written City procedures onsite or in Stormwater Management Program. 	Planning and Development Department, Engineering Division	Year 1
		Year 2		
		Years 3-5		
4.2 Post-Construction Stormwater	Review and update municipal ordinances to ensure compliance with MS4 permit requirements for post- construction stormwater	<ol style="list-style-type: none"> 1. Operate under Articles 12 and 14 of the Unified Development Code until approval of SWMP by TCEQ. 	Planning and Development Department, Engineering	Year 1

BMP	BMP Description	Measurable Goals	Responsibility	Target Date
Ordinance	management in development and new development.	2. Conduct one review of Articles 12 and 14 of the Unified Development Code and record date of review and 100% of necessary changes in one memo to file by December.	Division	Year 2
		3. Create and adopt one updated post-construction stormwater management criteria by December, as applicable. 4. Record 100% of the changes to the post-construction stormwater management criteria in the annual report within 90 days of the end of the reporting period.		Year 3
		5. Enforce 100% of the updated Articles 12 and 14 of the Unified Development Code by end of permit term.		Years 4-5
4.3 Detention Pond Maintenance, Inspection, and Enforcement	Continue maintenance of City-owned detention ponds and continue oversight of maintenance for privately-owned detention ponds according to written procedures.	1. Inspect 20% of City- owned detention ponds by December of each year. 2. For privately-owned detention ponds, require inspection reports from the owner once annually. 3. Document enforcement actions for post- construction requirements by December of each year.	Planning and Development Department, Engineering Division	Years 1-5
	Maintain written procedures for detention pond maintenance, including maintenance of City-owned detention ponds and oversight of maintenance for privately-owned detention ponds.	1. Operate under existing procedures until approval of SWMP by TCEQ.		Year 1
		2. Review, and update if necessary, existing procedures for detention pond maintenance by December. 3. Record changes to procedures in one memo to file by December.		Year 2

BMP	BMP Description	Measurable Goals	Responsibility	Target Date
		<ul style="list-style-type: none"> 4. Operate under updated procedures through the end of the permit term. 5. Maintain one copy of written City procedures onsite or in Stormwater Management Program. 		Years 3-5

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
5.1 Storm Sewer System Operation and Maintenance for the City of Grand Prairie (TMDL)	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. Use computer maintenance and management system to track 90% of the 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 90% of the storm sewer and drainage maintenance through City Works Management System		Years 1 – 5
5.2 Disposal of Waste Removed from the MS4 for the City of Grand	Maintain standard operating procedure for the disposal of waste removed from the MS4.	1. Once during the permit term review and update the SOP for waste disposal to ensure compliance with 30 TAC Chapter 330 and 335.	Environmental Services, Environmental Quality and Solid	Years 3
5.3 Storm Sewer and Drainage Maintenance Program for the Dallas County Flood Control	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	1. Respond to 100% of the written complaints within the District	Dallas County Flood Control District #1	Years 1 – 5
		2. Annually perform 100 % of the maintenance reviews and prepare report		Years 1 – 5

District #1 (excluding the City of Grand Prairie – see BMP 5.1) <i>(TMDL)</i>	observations.	3. Conduct annual inspection of the district to note needed repairs, deterioration from past years, and make list of priorities. For each area noted state in the annual report what the district's plan is on the repair or monitoring of that area.		Years 1 – 5
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) <i>(TMDL)</i>	Maintain a standard operating procedure for the disposal of waste removed from the Dallas County Flood Control District #1's stormwater system.	1. Annually review the SOP for waste disposal	Dallas County Flood Control District #1	Years 1 – 5
5.5 List Potential Problem Areas for Inspection <i>(TMDL)</i>	Develop a list of potential problem areas, then identify and prioritize areas for increased inspection (i.e. illegal dumping).	1. Update 100% of the list of potential problem areas with illegal dumping.	Planning and Development Department, Code Enforcement Division	Year 2
		2. Identify and prioritize 100% of the problem areas for at least monthly inspection.		Year 1- 5

5.6 Street Operation and Maintenance <i>(TMDL)</i>	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. Annually sweep 80% of the business district, thoroughfares and more often on high traffic roads.	Environmental Services Department, Solid Waste Division	Years 1 – 5
		2. In addition to sweeping program, for 80% of the major roads, the City will implement other trash and litter control procedures or provide inlet protection measures. 3. The City will require that 100% of the non-prohibited materials be disposed of at a Type I landfill		Years 1 – 5
5.7 Educating and Training City Field Staff <i>(TMDL)</i>	Inform or train appropriate employees involved in implementing pollution prevention and good housekeeping practices (see also BMP 2.14).	1. Disseminate stormwater training video to 90% of the field staff and keep materials and attendance lists at the Environmental Quality Division office	Environmental Services Department, Environmental Quality Division	Year 2
		2. Provide 250 vehicle decals annually with contact information in the event staff observes an illicit discharge.		Years 1-5
		3. Purchase and distribute IDDE posters to 100% of the applicable facility buildings for display.		Year 1
5.8 Stormwater Management Program Data Tracking	Review and track all City activities related to the Stormwater Management Program.	1. Identify the newly listed impaired segments in annual report and SWMP within 2 years of approval date.	Environmental Services Department, Environmental Quality Division	Years 1-5
		2. Create annual report		Years 1 – 5

5.9 Contractor Compliance	Ensure contractors performing maintenance on City facilities meet program requirements and are provided oversight.	1. Contractually require 100% of the contractors to comply with stormwater controls, good housekeeping practices, and facility specific stormwater management procedures	Environmental Quality, Public Works, Parks and Recreation, Planning and Development	Years 1-5
		2. Inspect 10% of the contractors annually to ensure contractors are using appropriate control measures and SOPs		Years 1-5
5.10 Pollution Prevention for City Operation and Maintenance (O&M) Activities	Ensure pollution prevention measures for City O&M activities are working properly with inspections.	1. Update 100% of the list of City facilities with O&M activities that have the potential to discharge pollutants into the MS4	Environmental Services Department, Environmental Quality Division	Year 1
		2. Inspect pollution prevention measures at 100% of the facilities identified with O&M activities once during the permit term and keep a log of inspections..		Year 2-5
		3. Identify and list 80 % of the possible pollutants of concern from aforementioned O&M activities by the end of the permit term		Year 2-5
		4. Develop and implement pollution prevention measures for 100% of the O&M activities by the end of the permit term.		Years 2-5

5.11 Structural Control Maintenance	Ensure proper maintenance of structural controls on City owned facilities.	1. Annually inspect structural controls and maintain the structural controls	Environmental Services Department, Public Works Department, Parks and Recreation Department	Years 1 – 5
5.12 Mapping Facilities	Identify the locations of City owned and operated facilities and stormwater controls.	1. Update 100% locations of City owned and operated facilities.	Environmental Services Department, Environmental Quality Division	Year 2
		2. Update stormwater controls at 100% of the aforementioned facilities by the end of the permit term		Year 2-5
		3. Map 100% of the locations in GIS		Year 2
5.13 Mosquito Management Program	Maintain mosquito management methods that will not result in illicit discharges to the MS4.	1. Follow integrated mosquito management methods 100% of the time when handling and applying pesticides	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Use low toxicity bio-controls for the larvae control 100% of the time.		Years 1 – 5
5.14 Facility Inventory	Develop and maintain a facility and stormwater control inventory for City owned and operated facilities.	1. Conduct one review and update 100% of the list of City facilities that have the potential to discharge pollutants into the MS4. Record the stormwater controls for each facility by the end of Permit term.	Environmental Services Department, Public Works Department, Parks and Recreation Department	Year 3-5

		2. Record 100% of applicable permit numbers, registration numbers, and authorizations for each facility or control by the end of the permit term.		Years 2-5
5.15 Facility Assessment	Identify high priority facilities and document results.	1. Review 100% of the facilities identified in BMP 5.14 for potential to discharge pollutants into stormwater and identify high priority facilities.	Environmental Services Department, Public Works Department, Parks and Recreation Department	Year 2
		2. Inspect 90% of high priority facilities, including City maintenance yards and fuel storage locations. Use checklist during assessment		Year 2
		3. Document results 100% of time. Maintain copies of each site evaluation checklists and any identified deficiencies and corrective actions taken		Year 2
5.16 Facility Specific SOPs and stormwater controls for High Priority Facilities	Develop facility specific stormwater management SOPs and implement specific stormwater controls to minimize discharge of pollutants into stormwater at high priority facilities identified in BMP 5.15	1. Once during the permit term review and update SOP for each facility identified in BMP 5.15 that will identify BMPs to be installed, implemented, and maintained	Environmental Services Department, Public Works Department, Parks Arts, and Recreation Department	Year 4

		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		
5.17 Inspect City Facilities	Inspect City facilities for Best Management Practices.	1. Once during the permit term review and update the inspection form for City facilities.	Environmental Services Department, Environmental Quality Division	Year 3
		2. Inspect City facilities identified in BMP 5.14 once during the permit term		Years 2-5
		3. Inspect high priority facilities identified in BMP 5.15 annually		Years 1– 5
		4. Once during the permit term review the SOP describing the frequency of city facility inspections and how they will be conducted.		Year 3
5.18 Pesticide, Herbicide, and Fertilizer Application and Management	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. Distribute flyer educating 100% of the pesticide, fertilizer, and herbicide applicators and distributors on proper management techniques and ensure 100% of the required certifications and permits are obtained.	Environmental Services Department, Environmental Quality Division, Parks, Arts and Recreation Department	Years 1– 5
		2. Require 100% of the City Contractors to include chemical application schedule in landscape and pesticide contracts to minimize discharges of pollutants due to irrigation or expected precipitation.		Years 1 – 5
		3. Properly collect and dispose 100% of unused pesticide, herbicide, and fertilizer.		Years 1 – 5

5.19 Evaluation of Water Quality Impacts for City Flood Control Projects	Implement a process to require new City flood control projects to be designed to incorporate water quality protection for receiving water, and to evaluate opportunities to retrofit existing flood control devices for additional pollutant removal.	1. Document one approach of implementation in the 2019 SWMP after approval by TCEQ.	Planning and Development Department, Engineering Division	Years 1-5
		1. Document in one memo to file additional staffing or program needs to meet permit requirements or City goals by December.		Years 1-5
		3. Create one inventory for 100% of existing City-owned flood control devices including evaluation of the existing pollutant removal capacity of the devices by December		Year 2
		4. Develop one set of written procedures to evaluate impacts to receiving waters for new flood control projects and a standard project review checklist to use in evaluation by December. 5. Identify existing flood control devices that can be retrofitted for additional pollutant removal in a memo to file by December.		Year 3
		6. Begin evaluating the impacts to receiving waters for new flood control projects and maintain a completed standard project review checklist for each project evaluated by December. 7. Create a prioritized list of existing flood control devices that can be retrofitted for additional pollutant removal by December.		Year 4

		<p>8.Require 100% of new scheduled City new flood control projects to be designed to incorporate water quality protection for receiving waters according to established procedures by December.</p> <p>9.Begin retrofitting one existing structural flood control device for additional pollutant removal.</p>		Year 5
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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
6.1 Stormwater Industrial Inspection Program	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 and enforce failure to apply for or obtain permit coverage.	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Perform inspections of 90% of the industries once every 3 years to ensure compliance with the stormwater permit and to ensure control measures for discharges are met.		Years 1 – 5
6.2 Existing SWP3s	Two existing SWP3s are maintained for the Airport, and the Landfill, as required by the general permit TXR05000.	1. Inspect 100% of the sites annually to ensure compliance with SWP3 permits at the 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. Annually conduct the SWP3 training at 100 % of the sites.		Years 1 – 5