

2024
Storm Water Management
Plan



City of Grapevine, Texas

A Level 3 Phase II MS4
TXR040411

MS4 Name: City of Grapevine

Address: 200 S Main St, Grapevine TX 76051

Permit Number: TXR 040114

MS4 Level: 3 (Serves a population of at least 40,000 but less than 100,000 people)

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EXECUTIVE SUMMARY

The City of Grapevine is required to develop a Storm Water Management Plan (SWMP) in accordance with 40 CFR Part 122.32(a)(1) (Appendix II) and Texas Commission of Environmental Quality's (TCEQs) Texas Pollutant Discharge Elimination System (TPDES) General Permit No. TXR040000 (Appendix III).

RATIONALE

This document outlines the actions that will be taken over the next five years to reduce pollutants and protect the City's storm water quality; effectively, a storm water management program with five essential components, known as Minimum Control Measures (MCMs). The MCMs (mandated by the EPA's 40 CFR 122) require Best Management Practices (BMPs) and measurable goals selected to:

- 1) reduce the discharge of pollutants to the Maximum Extent Practicable,
- 2) to protect water quality, and
- 3) to satisfy the appropriate requirements of the Clean Water Act (CWA) in accordance with the Texas / EPA Phase II program.

AUTHORITY

The plan identifies the City's legal authority to implement the general permit.

SUBMITTAL

The Notice of Intent (NOI) must be electronically submitted to the TCEQ and the SWMP must be in place within 180 days of the issuance of the MS4 General Permit TXR040000 (Appendix I). The permit was issued August 15th, 2024. The 180 days of issuance date is February 11th, 2025. The City of Grapevine submitted its NOI electronically to the TCEQ on February 10th, 2025.

INTRODUCTION

COMMUNITY PROFILE

The City of Grapevine (Estimated Population of City of Grapevine as of December 31, 2024: 52,377) is a City in Tarrant County with a small portion in both Denton and Dallas Counties. Located in the center of the Dallas / Fort Worth (DFW) Region, Grapevine is home to most (approximately 12.09 square miles) of the DFW International Airport. The City adjoins Grapevine Lake, a large (approximately 3.6 square miles) reservoir impounded by the U.S. Army Corps of Engineers in 1952.

HISTORY

Settlers began moving to Grapevine (named for the wild Mustang grapes blanketing the area) as early as the 1600's. Grapevine became the first settlement in Tarrant County; originating under the Lone Star flag in 1844, a year before Texas became a part of the United States.

GOVERNMENT

In 1907, Grapevine incorporated as a City. The City Charter was approved through a home rule election in 1965. Grapevine uses a Council-Manager form of government. The City Council is comprised of an elected mayor and six elected at-large council members. The City Manager is appointed by the City Council. The City Manager acts as policy advisor to the council and implements council directives.

PHYSICAL CHARACTERISTICS

Grapevine is located at 37°56'22" N and 97°4'43" W. The City includes approximately 36 square miles. The range of elevation is approximately 450 - 700 feet above sea level. There are two regional watersheds (HUC-10) and eight regional sub-watersheds (HUC-12) within the City boundaries (Figure 1). The regional watersheds, consists of Lower Denton Creek (LDC), Mountain Creek-West Fork Trinity River (MCWFTR), and Timber Creek-Elm Fork Trinity River (TCEFTR) watersheds. The LDC and MCWFTR watersheds are separated by State Highways 114 and 121 which extend from the Northeast to the Southwest portions of the City, dividing the City into Northern and Southern portions. The TCEFTR Watershed is entirely on DFW Airport property. The regional sub-watersheds consist of Big Bear Creek (BBC), Cottonwood Branch-Denton Creek (CBDC), Cottonwood Branch-Hackberry Creek (CBHC), Dove Creek-Grapevine Lake (DCGL), Estelle Creek-Bear Creek (ECBC), Grapevine Creek-Elm Fork Trinity River (GCEFTR), Little Bear Creek (LBC), and Marshall Branch-Grapevine Lake (MBGL) (Table 1). GCEFTR, CBHB and ECBC are all located on DFW Airport property and are not within the City of Grapevine SWMP area. Surface water drainage in the Northern portion of the City drains to Lake Grapevine, Denton Creek, Cottonwood Branch and the Elm Fork of the Trinity River. Surface water drainage in the Southern portion of the City drains to Big Bear Creek, Little Bear Creek, and the West Fork of the Trinity River. Grapevine contains 25 miles of Lake Grapevine shoreline and 65.3 miles of creeks within its boundaries.

Table 1: Regional Sub-Watersheds of Grapevine, TX

Regional Watershed (HUC-10)	Regional Sub-Watershed (HUC-12)
Lower Denton Creek	Dove Creek - Grapevine Lake Cottonwood Branch - Denton Creek Marshall Branch - Grapevine Lake
Mountain Creek – West Fork Trinity River	Big Bear Creek Little Bear Creek Estelle Creek - Bear Creek
Timber Creek – Elm Fork Trinity River	Grapevine Creek - Elm Fork Trinity River Cottonwood Branch - Hackberry Creek

Average temperature is 65.4°F and the average annual rainfall is 34.7 inches.

Currently (As of January 2025), the City has the following stormwater infrastructure in place:

- 502.2 miles of total roadway
- 183.2 miles of storm drain pipe
- 16.7 miles of culvert
- 65.3 miles of creek
- 6,186 storm drain inlets
- 981 storm drain outfalls

Minimum Control Measure (MCM) 1: Public Education and Outreach

Target Audience and Pollutants

TXR040000, Part III and Part IV, Section D.l.a.1-2

Traditional Municipal Separate Storm Sewer Systems (MS4s) and counties must address the residents served by the MS4.

Table 2. Target Audiences and Target Pollutants

Target Audience	Target Pollutants
Residents	Illegal dumping Litter Pesticides and fertilizers Illegal disposal of household hazardous waste Swimming pool discharge
Construction Contractors	Sediment runoff
Restaurants	Fats, Oil and Grease (FOG)

The City of Grapevine maintains a public website where this Stormwater Management Plan (SWMP) and all associated Annual Reports will be posted. The site can be accessed at:

<https://www.grapevintexas.gov/531/Stormwater-Watershed-Quality-Management>

The SWMP will be made accessible via the City website no later than 30 days after the Notice of Intent (NOI) approval date. The City's SWMP Annual reports will be made available no later than 30 days after their respective due dates.

The City of Grapevine, as a Level 3 MS4, is required to implement a minimum of five (5) Public Education and Outreach Best Management Practices (BMPs) during this permit term. The chosen BMPs for this MCM can be found in Table 3.

Table 3. Public Education and Outreach Best Management Practices (BMPs)

BMP#	Activity /BMP	Measurable Goal
1.1	Information on the MS4 operator's website.	<p>The City will maintain a webpage with current, accurate information and working links.</p> <p>All links shall be checked, and the page shall be updated as necessary at minimum of once annually.</p> <p>This website will be maintained for the full year, each year.</p>
1.2	Social Media posts, social media campaign.	<p>The City will post a minimum of four times each year on a minimum of one social media platform.</p> <p>These messages must address ways attendees can minimize or avoid adverse stormwater impacts or practices to improve the quality of stormwater runoff and be seasonally appropriate.</p> <p>These posts will be visible to the public for the full year each year.</p>
1.3	Maintain or mark storm drains and inlets with, "No Dumping - Drains to Creek" or a similar message.	<p>The City will placard, stencil, or paint at least 10% of all known stormwater inlets in either high-impact areas identified by the small MS4 operator or impairment watersheds within the MS4 area each year.</p> <p>Where all known stormwater inlets have been marked, inspect, and maintain the markers for a minimum of 15% of all known stormwater inlets in either high-impact areas identified by the small the MS4 operator or impairment watersheds within the MS4 area each year.</p>
1.4	Publish articles in local newspapers or newsletter, may be electronic.	<p>The City will develop article topics that are group specific and address activities or pollutants of concern at a seasonally appropriate time.</p> <p>The City will publish or email at least two articles to target audience groups each year.</p>
1.5	Permanent stormwater related signage.	<p>The City will place signage in a location where the message is relevant, and highly visible to target audience.</p> <p>Signage will count as annual BMP for the year it was put in place and for each subsequent year of this permit cycle as long as each of those years, the permittee inspects and maintains, as necessary, 100% of the signage once annually.</p>

As part of the Public Outreach and Education MCM, the City of Grapevine’s Environmental Services Division of Public Works (administrators of the City’s SWMP) will either create, host or provide support for each of the listed BMPs by conducting at least one of the following:

- Plan (or assist with planning) the distribution of materials.
- Coordinate volunteers.
- Contribute supplies, materials, tools, or equipment.
- Help distribute materials.
- Provide financial support.

Minimum Control Measure (MCM) 2: Public Involvement/Participation

TXR.040000, Part III and Part W, Section D.2

Instructions

Small MS4s must involve the public to achieve compliance with this permit. At a minimum, small MS4s must meet state and local public notice requirements and create or support community-led activities for the community to be involved with the SWMP. The public activities and Best Management Practices (BMPs) must show a positive impact on stormwater runoff quality.

Updates and Recordkeeping

The City of Grapevine will review public involvement and participation efforts annually. Keep records to show compliance with BMP measurable goals (e.g., attendance sheets and event advertisements) for each year of the permit term. Print out additional worksheets as needed.

Create or Support Public Involvement and Participation

As part of the Public Involvement and Participation MCM, the City of Grapevine's Environmental Services Division of Public Works (administrators of the City's SWMP) will either create, host or provide support for each of the listed BMPs by conducting at least one of the following:

- Assist with planning of the event or activity
- Recruit volunteers
- Advertise for events
- Provide an event location (e.g., arrange land or stream access)
- Provide financial support
- Contribute supplies, materials, tools, or equipment
- Supply disposal services

The City of Grapevine, as a Level 3 MS4, is required to implement a minimum of four (4) Public Education and Outreach BMPs during this permit term. The chosen BMPs for this MCM can be found in Table 4.

Table 4. Public Involvement and Participation Best Management Practices (BMPs)

BMP#	Activity /BMP	Measurable Goal
2.1	Clean-up events	<p>Host at least two events annually. For consideration, the land area cleaned must be at least:</p> <ul style="list-style-type: none"> - Two acres, 400 yards of a stream, streambank, riparian area, - or Two miles of roadside <p>The City may combine these, such as one acre of land and 200 yards of stream.</p>
2.2	Habitat improvement	<p>Annually, the City will host at least two events that involve tree planting, invasive vegetation removal and stream restoration. These projects must be at least 0.5 acres or 25 yards for consideration. Events can take place in streams, parks, areas adjacent to public waterways, or other green spaces. The events can be a combination of locations and areas.</p>
2.3	Public education events and workshops	<p>The City will host at least one project or training annually on stormwater topics. Stormwater topics may include building rain barrels, fertilizer application training, rain garden and bio retention creation or maintenance, and how to recognize and report illicit discharge activities. Examples of target audiences include residents, homeowner associations (HOA), or other public groups.</p>
2.4	Educational display/booth	<p>The City will create one booth or display annually at a school, public event, or similar event that provides information or displays to improve public understanding of issues related to water quality. The City will Staff the booth or display when the event is open to the public.</p>

Minimum Control Measure (MCM) 3: Illicit Discharge Detection and Elimination (IDDE)

TXR040000, Part III and Part W, Section D.3

Includes:

- MS4 Map
- IDDE Education and Training
- Methods for Public Reporting of Illicit Discharges and Spills
- IDDE Response Procedures
- Source Investigation and Elimination Procedures
- IDDE Inspection Procedures
- On-Site Sewage Facility (OSSF) Procedures

Instructions

The City of Grapevine will develop, implement, and enforce a program to investigate, detect, and eliminate illicit discharges. Include a plan to detect and eliminate illicit discharges and a plan to detect and address non-stormwater discharges, including illegal dumping.

The City does not currently directly discharge to an impaired water body. Should this change, the City will design Best Management Practices (BMPs) to reduce the discharge of the Pollutant of Concern (POC).

Updates and Recordkeeping

The City will review and update worksheets at least once annually to address changes and make improvements to procedures where applicable. Revision dates will be recorded throughout the permit term.

Allowable Discharges

The following non-storm water discharges have been discussed by the City departments involved in the implementation and tracking of the SWMP in order to determine if they are known to be significant contributors of pollutants to the Municipal Separate Storm Sewer System (MS4):

1. Water line flushing (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);
2. Runoff or return flow from landscape irrigation, lawn irrigation, and other irrigation utilizing potable water, groundwater, or surface water sources;
3. Discharges from potable water sources that do not violate Texas Surface Water Quality Standards;
4. Diverted stream flows;
5. Rising ground waters and springs;

6. Uncontaminated ground water infiltration;
7. Uncontaminated pumped ground water;
8. Foundation and footing drains;
9. Air conditioning condensation;
10. Water from crawl space pumps;
11. Individual residential vehicle washing;
12. Flows from wetlands and riparian habitats;
14. Street wash water excluding street sweeper waste water;
15. Discharges or flows from emergency firefighting activities (firefighting activities do not include washing of trucks, run-off water from training activities, test water from fire suppression systems, and similar activities);
16. Other allowable non-stormwater discharges listed in 40 CFR § 122.26(d)(2)(iv)(B)(1);
17. Non-stormwater discharges that are specifically listed in the TPDES Multi Sector General Permit (MSGP) TXR050000 or the TPDES Construction General Permit (CGP) TXR150000;
18. Discharges that are authorized by a TPDES or NPDES permit or that are not required to be permitted; and
19. Other similar occasional incidental non-stormwater discharges such as spray park water, unless the TCEQ develops permits or regulations addressing these discharges.

There is no known substantial source of pollutants, to the City, associated with the previously listed discharges.

BMP 3.1: MS4 Map

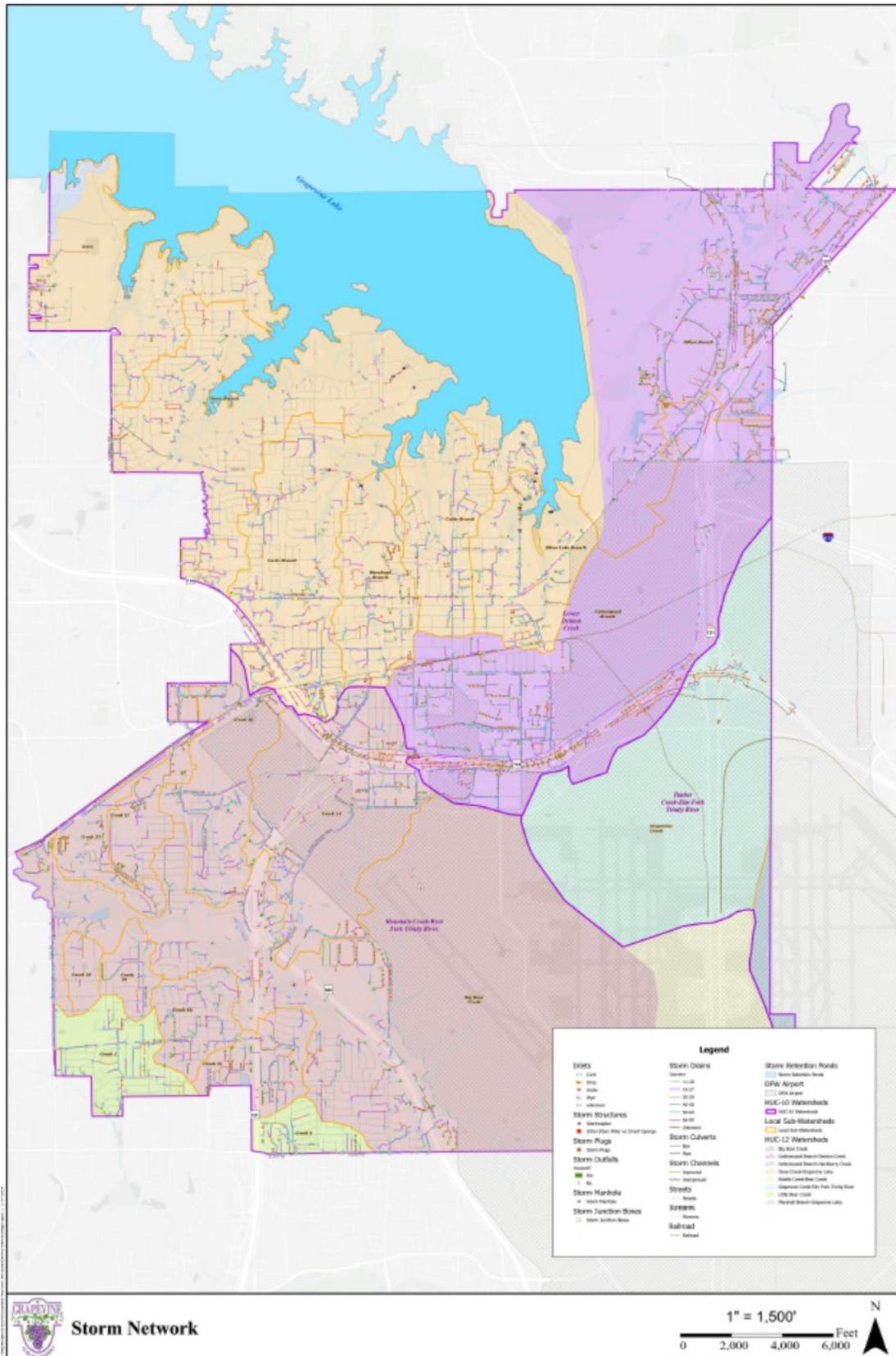
TXR040000, Part IV, Section D.3.c.1

Maintain a Current and Accurate MS4 Map

The most current (January 2025) MS4 map is included here and will be kept as a link on the City's website with the posted SWMP. A review and update of the City's MS4 map will be conducted as necessary and at least once annually. Features which have been added, removed, or changed will be included. The map includes:

- The location of all the outfalls operated by the MS4 that discharge into Waters of the U.S.
- The location and name of all surface waters receiving discharges from the outfalls.
- Date of last revision.

Figure 1: MS4 Map of Grapevine, TX



BMP 3.2: IDDE Education and Training

TXR040000, Part IV, Section D.3.c.2

Educate and Train Employees on IDDE

The City of Grapevine will conduct at least one training annually for 100% of field staff that may encounter or observe illicit discharges, illegal dumping, or illicit connections during normal job duties or responsibilities.

Document Training Activities

The City of Grapevine will use a log to record the training dates and topics covered, and note whether the training is:

- An in-person presentation,
- A training video,
- Training material to read, or
- Some other type of training.

Attendees print their name, title, and sign the attendance log sheet. Maintain training attendance records for review by TCEQ when requested.

BMP 3.3 Public Reporting of Illicit Discharges and Spills

TXR040000, Part W, Section D.3.c.3

Maintain and Facilitate a Public Reporting Method

The City of Grapevine provides multiple methods for the public to report illicit discharges, illegal dumping, or water quality impacts associated with discharges. Reporting methods include:

Public Works Operating Hours Phone Line: 817.410.3330

After-Hours Phone Line (Police Dispatch): 911 or 817.410.8127

These reporting mechanisms shall be maintained during the permit term.

In addition, the City of Grapevine will publicize its reporting method at least twice annually in a way designed to reach the majority of the intended audience. Grapevine is required to continuously maintain and publicize the reporting function on the website. To determine the effectiveness of your publicized BMP, develop and implement a tracking system to estimate what percentage of the intended audience is reached.

BMP 3.4: IDDE Response Procedure

TXR040000, Part IV, Section D.3.c.4

Develop and Maintain IDDE Response Procedures

The City of Grapevine actively monitors and responds to IDDE complaints and emergencies. Procedures include:

- Emergency Response Contact Information
- How will your MS4 monitor for complaints regarding illicit discharges? How will your MS4 respond to illicit discharges, illegal dumping, and spills? Instructions for necessary reports
- Review and update the procedures at least once annually to address changes and make improvements to the procedures when necessary.

BMP 3.5: Source Investigation and Elimination

TXR040000, Part IV, Section D.3.c.5

Investigate and Eliminate Illicit Discharges and Illegal Dumping

The City of Grapevine will investigate all reports of illicit discharges and illegal dumping. It will prioritize the investigations of discharges and dumping incidents based on their risk of pollution.

- Respond to all high priority discharges **within 24 hours**. An example of a high priority discharge would be a sanitary sewer discharge.
- Complete an investigation worksheet for every source investigation conducted.
- Immediately notify TCEQ of the occurrence of any illicit flows believed to be an immediate threat to human health or the environment.
- Notify the responsible party and require them to perform all necessary corrective actions to eliminate the illicit discharge and illegal dumping.
- For illicit discharges and illegal dumping incidents where your MS4 does not have authority, the adjacent MS4 operator or applicable TCEQ regional office should be notified.

BMP 3.6 IDDE Inspection

TXR040000, Part IV, Section D.3.c.6

Develop and Maintain Inspection Procedures

Develop written procedures describing the basis for conducting inspections in response to complaints and follow-up inspections to ensure corrective measures have been taken. Inspection instructions must be reviewed at least once annually to address changes and make improvements.

Keep Records of Inspections in Response to Complaints

Complete an IDDE Cartograph Log and/or Environmental Services Memo for every inspection conducted. Be sure to clearly note:

- The date that the complaint was received.
- The date and time that the inspection started.
- If this was an initial or follow-up inspection.
- The location of the inspection.

Provide information on the original complaint, if any active discharges were observed during the inspection, and if any corrective action or follow-up inspections are needed.

BMP 3.7 Source Investigation and Elimination

TXR040000, Part IV, Section D.3.d

As a Level 3 small MS4, the City of Grapevine shall, upon being notified that the discharge has been eliminated, conduct a follow-up investigation or field screening, consistent with Part N.D.2.(e)(2), to verify that the discharge has been eliminated. Follow-up investigations shall be completed within five business days, on average. The City shall document its follow-up investigation. The City may seek recovery and remediation costs from responsible parties consistent with Part N.C.3, and require compensation-related costs. Resulting enforcement actions must follow the procedures for enforcement action in Part N.C.3 and 6. If the suspected source of the illicit discharge is authorized under an NPDES/TPDES permit or the discharge is listed as an authorized non-stormwater discharge, as described in Part II.D, no further action is required

Table 5: Illicit Discharge Detection and Elimination (IDDE) Best Management Practices (BMPs)

BMP#	Activity/BMP	Measurable Goals
3.1	Maintain a current and accurate MS4 map as described in Part IV.D.3.(c)(1).	The City will review and update, as necessary, at least one time annually its MS4 Map to include features which have been added, removed, or changed.
3.2	Conduct training for all the permittee's field staff as described in Part IV.D.3.(c)(2).	The City will conduct a minimum of one training annually for 100% of MS4 field staff that may come into contact with or otherwise observe an illicit discharge, illegal dumping, or illicit connection to the small MS4 as part of their normal job responsibilities. Records of trainings will be maintained by the City. Training may be conducted in-person or using self-paced training materials such as videos or reading materials.
3.3	Maintain and publicize a reporting method for the public to report illicit discharges, illegal dumping, or water quality impacts associated with discharges such as a reporting hotline, online form, or other similar mechanism as described in Part IV.D.3.(c)(3).	The City will maintain a minimum of one public reporting mechanism 100% of the time during the permit term. The City will publicize the public reporting mechanism a minimum of two times annually in a method designed to reach the majority of the intended audience. Develop and implement a tracking system to estimate what percentage of the intended audience is reached for determining BMP effectiveness. The City reporting mechanism will be publicized on the public website 100% of the time during the permit term.
3.4	Develop and maintain procedures for responding to illicit discharges, illegal dumping, and spills as described in Part IV.D.3.(c)(4).	The City will review and update the procedures at least one time annually to address changes and make improvements to the established IDDE procedures where applicable.
3.5	Source investigation and elimination of illicit	The City will respond to 100% of known illicit discharges and illegal dumping incidents each year to investigate sources dumping.

BMP#	Activity/BMP	Measurable Goals
	discharges and illegal dumping as described in Part IV.D. 3.(c)(5).	<p>The City will respond to 100% of high priority discharges each year, such as sanitary sewer discharges within 24 hours.</p> <p>The City will notify TCEQ immediately of 100% of illicit flows believed to be an immediate threat to human health or the environment throughout the permit term.</p>
3.6	Corrective action to eliminate illicit discharges and illegal dumping as described in Part IV.D.3.(c)(5)	<p>For 100% of illicit discharges or illegal dumping where a source has been determined, the City will notify the responsible party of the problem within 24 hours.</p> <p>The City will require the responsible party to perform all necessary corrective actions to eliminate the illicit discharge.</p>
3.7	Inspection Procedures as described in Part IV.D.3.(c)(6).	<p>The City will review and update its procedures at least one time annually to address changes and make improvements to its established procedures where applicable.</p>
3.8	Inspections in response to complaints as described in Part N.D.3.(c)(6).	<p>The City will conduct inspections in response to 100% of complaints each year according to the established procedures.</p> <p>The City will conduct follow up inspections in 100% of cases each year where necessary as described in the established procedures.</p>
3.9	Conduct follow-up investigations or field screenings when notified that a discharge has been eliminated.	<p>The City will conduct follow-up investigations or field screening in response to 100% of IDDE notifications each year.</p> <p>The City will complete the follow-up investigations within five business days, on average.</p>

Minimum Control Measure (MCM) 4: Construction Site Stormwater Runoff Control

TXR.040000, Part IV; Section D.4

Includes:

- Stormwater Control Program Information
- Construction Site Plan Review Procedures
- Construction Site Inspections and Enforcement Procedures
- Construction Site Inspections and Enforcement Reports
- Information Submitted by the Public
- MS4 Staff Training

Instructions

Develop, implement, and enforce a program for operators of all construction activities to select, install, implement, and maintain stormwater control measures that prevent illicit discharges to the Maximum Extent Possible (MEP). The program must include:

- The development and implementation of an ordinance or another regulatory mechanism.
- Procedures for processing information submitted by the public.
- MS4 staff.

Updates and Recordkeeping

The City of Grapevine will review and update applicable city ordinances and other regulatory mechanisms at least once during the permit term to address changes and make improvements. The City will review and update procedures at least once annually to address changes and make improvements.

BMP 4.1 Stormwater Control Program

TXR.040000, Part Iv, Section D.4.b.1-2

Develop and Maintain City Ordinances

The City of Grapevine will require all construction site operators to implement appropriate erosion and sediment control Best Management Practices (BMPs). The stormwater control program will ensure erosion and sediment controls, soil stabilization, and BMP requirements are effectively implemented for all construction activities discharging stormwater into your regulated area consistent with the Texas Pollutant Discharge Elimination System (TPDES) Construction General Permit, TXR 150000 (Appendix IV).

The City will maintain an ordinance or other regulatory mechanism to prohibit the below discharges:

- Wastewater from the washout of concrete and wastewater from water well drilling operations, unless managed by an appropriate control.
- Wastewater from the washout and cleanout of stucco and paint from releases of oils and other construction materials.
- Fuels, oils, and other pollutants used in vehicle and equipment operation and maintenance.
- Soaps and solvents used in vehicle and equipment washing.
- Discharges from dewatering activities, including discharges from dewatering trenches and excavations, unless managed by appropriate BMPs.

BMP 4.2 Construction Site Plan Review Procedure

TXR.040000, Part IV, Section D.4.b.3

Implement Site Plan Review Procedures

The City will develop and maintain procedures for reviewing construction site plans. The City will describe which plans will need review and when an operator can begin construction.

Site plan review procedures should include:

- Consideration of potential water quality impacts.
- Site-specific construction site control measures that meet the requirements of TPDES CGP TXR150000 (Appendix IV)

Note: The City may require and accept plans, such as a stormwater pollution prevention plans, for review as part of your site plan review.

The City will implement site plan review procedures for all new construction projects each year. The City will review and update the procedures for your site plan review at least once annually to address changes and make improvements to the procedures if necessary.

BMP 4.3 Construction Site Inspections and Enforcement Procedure

TXR.040000, Part IV; Section D.4.b.4

Implement Site Inspection Procedures

The City will develop and maintain procedures for inspecting active construction projects.

The City will conduct inspections of at least 80% of active construction sites annually. Inspections will include observing site factors that may impact water quality, such as:

- Site slope and soil erosion potential.
- Project size and type.

- Proximity to and the sensitivity of receiving water bodies.
- Non-stormwater discharges.
- Past record of non-compliance by construction site operators.

Inspections of construction sites will include evaluation of the following:

- Site CGP TXR 150000 (Appendix IV) coverage.
- Stormwater control measures implementation and maintenance.
- Compliance with MS4 ordinance(s) and other regulations.

The City will review and update inspection procedures at least once annually to address changes and make improvements to the procedures if necessary.

BMP 4.4 Construction Site Inspections and Enforcement Reports

TXR.040000, Part IV; Section D.4.b.4

Complete Site Inspection Reports

Conduct inspections of at least 80% of active construction sites annually. Following a construction site inspection, inspector(s) must provide a written or electronic inspection report to the site operator(s).

Based on inspection findings, you should take all necessary follow-up actions to ensure compliance with permit requirements and the SWMP. Follow-up inspections and enforcement actions must be tracked, and records must be maintained for review by TCEQ when requested.

BMP 4.6 Information Submitted by the Public

TXR.040000, Part IV, Section D.4.b.5

Create Procedures for Processing Public Comments

The City will develop, implement, and maintain procedures for receiving and considering information submitted by the public. Throughout the permit term, the city will maintain one webpage, hotline, email, or a similar method for receiving information submitted by the public.

The City will review and update procedures at least once annually to address changes and make improvements to the procedures if necessary.

BMP 4.7 MS4 Staff Training

TXR.040000, Part Iv, Section D.4.b.6

Educate and Train Employees

The City will ensure that all staff whose primary job duties are related to implementing the construction stormwater program (including permitting, plan review, construction site inspections, and enforcement) are informed or trained to conduct these activities. The training will be conducted by MS4 staff or by outside trainers.

The City will conduct at least one training annually for 100% of all MS4 staff whose primary job duties are related to implementing the construction stormwater program. Training may be conducted in person or using self-paced training materials, such as videos or reading materials.

Document Training Activities

The City will record the training date, topics covered, and note whether the training is:

- An in-person presentation,
- A training video,
- Training material to read, or
- Some other type of training.

The city will have attendees print their name, title, and signature on the attendance log sheet and keep records of attendance for review by TCEQ when requested.

Table 6: Construction Site Stormwater Runoff Control Best Management Practices (BMPs)

BMP#	Activity /BMP	Measurable Goal
4.1	Develop and maintain an ordinance or other regulatory mechanism as described in Part IV.D-4.(a).	Review and update the ordinance or other regulatory mechanism at least one time during the permit term to address changes and make improvements to the ordinance where applicable.
4.2	Prohibit discharges as described in Part IV.D-4.(b)(2).	Develop and maintain an ordinance or other regulatory mechanism to prohibit these discharges. Review and update the ordinance or other regulatory mechanism at least one time during the permit term to address changes and make improvements to the ordinance where applicable
4.3	Maintain and implement site plan review procedures that describe which plans will be reviewed as well as when an operator may begin construction as described in Part IV.D.4.(b)(3).	Review and update site plan review procedures at least one time annually to address changes and make improvements to the established procedures where applicable. Implement site plan review procedures for 100% of new construction site plans received each year.
4.4	Implement procedures for inspecting large and small construction projects as described in Part IV.D-4-(b)(4).	Review and update inspection procedures at least one time annually to address changes and make improvements to the established procedures where applicable.
4.5	Conduct construction site inspections as described in Part IV.D.4.(b)(4).	Conduct inspections at a minimum of 80% of active construction sites annually according to the established procedures. Each year, conduct follow up inspections in 100% of cases where necessary as described in the established procedures.
4.6	Develop, implement, and maintain procedures for receipt and consideration of information submitted	Review and update procedures for the receipt and consideration of information submitted by the public at least one time annually to address changes and make improvements to the established procedures where applicable.

BMP#	Activity /BMP	Measurable Goal
	by the public as described in Part IV.D-4.(b)(s).	Maintain one webpage, hotline, or similar method for receipt of information submitted by the public throughout the permit term.
4.7	Conduct training for all the MS4 staff whose primary job duties are related to implementing the construction stormwater program as described in Part IV.D-4-(b)(6).	<p>Conduct a minimum of one training annually for 100% of MS4 staff whose primary job duties are related to implementing the construction stormwater program.</p> <p>Training may be conducted in person or using self-paced training materials such as videos or reading materials.</p>
4.8	Maintain a Construction Site inventory as described in Part IV.D-4.(c).	Maintain an annual inventory of 100% of TPDES permitted active public and private construction sites in the small MS4 area, that result in a total land disturbance of one or more acres or that result in a total land disturbance of less than one acre if part of a larger common plan or development or sale.

Minimum Control Measure (MCM) 5: Post Construction Stormwater Management in New Development and Redevelopment

TXR.040000, Part W, Section D.5

Includes:

- Post-Construction Stormwater Management Program
- Enforcement Records
- Long-Term Maintenance of Post-Construction Stormwater Control Measures

Instructions

The City will develop, implement, and enforce a program to control stormwater discharges from new development and redeveloped sites discharging into your MS4 if these projects disturb one acre or more. This includes projects that disturb less than one acre that are part of a larger common plan of development.

This program will be established for private and public development sites. The program may utilize an off-site mitigation and payment plan in lieu of necessitating components to address this requirement.

Updates and Recordkeeping

The City will review each MCM 5 section for updates as stated in the permit.

BMP 5.1 Post-Construction Stormwater Management Program

TXR.040000, Part Iv, Section D.5.a.2

Develop and Maintain City Ordinances

The City of Grapevine will use an ordinance or another regulatory mechanism to address post-construction runoff from new development and redevelopment projects. Establish, implement, and enforce a requirement that owners or operators of new development and redeveloped sites must design, install, implement, and maintain a combination of structural and non-structural Best Management Practices (BMPs) appropriate for the community and protective of water quality.

If the construction of permanent structures is not feasible due to space limitations, health and safety concerns, cost effectiveness, or highway construction codes, the City may propose an alternative approach to TCEQ.

The City of Grapevine will review and update ordinances or other regulatory mechanisms at least once during the permit term to address changes and make improvements to ordinances if necessary.

BMP 5.2 Enforcement Records

TXR.040000, Part IV, Section D.5.b.1

Follow Recordkeeping Requirements

The City will document and maintain records of enforcement actions and make them available for review by TCEQ when requested.

The City will maintain records of 100% of enforcement actions taken each year and make the records available to TCEQ for review within 24 hours of a request.

BMP 5.3 Long-Term Maintenance of Post-Construction Stormwater Control Measures: Instructions

TXR.040000, Part IV; Section D.5.b.2

Create a Maintenance Plan for Structural Stormwater Control Measures

Long-term operation and maintenance of structural stormwater control measures will be addressed in one or both of the following ways:

- Maintenance performed by the MS4 (see Part IV.D.6 of the permit and MCM 6).
- Maintenance performed by the owner or operator of a new development or redeveloped site under a maintenance plan.
- If maintenance is performed by the owner or operator of a construction site, they must develop and implement a plan to address maintenance requirements for any structural control measures installed on-site.
- All maintenance performed should be documented and retained on-site (e.g., the offices of the site owner or operator) and be made available for review by your operator or TCEQ within 24 hours of a request.

Table 7: Post Construction Stormwater Management in New Development and Redevelopment Best Management Practices (BMPs)

BMP#	Activity /BMP	Measurable Goal
5.1	Develop and maintain an ordinance or other regulatory mechanism as described in Part IV.D.5.(a)(2).	Review and update the ordinance or other regulatory mechanism at least one time during the permit term to address changes and make improvements to the ordinance where applicable.
5.2	Document and maintain records of enforcement actions and make them available for review by the TCEQ as described in Part IV.D.5.(b)(1).	<p>Maintain records of 100% of enforcement actions taken each year.</p> <p>Make 100% of enforcement records available to TCEQ for review within 24 hours of request.</p>
5.3	Ensure the long term operation and maintenance of structural stormwater control measures installed as described in Part IV.D.5.(b)(2).	<p>Each year, implement a maintenance plan and schedule established by the small MS4 operator addressing 100% of stormwater control measures where the small MS4 operator is responsible for maintenance.</p> <p>Each year, require 100% of the owners or operators of any new development or redeveloped sites to develop and implement a maintenance plan addressing maintenance requirement for any structural control measures installed on site.</p> <p>Require the site owner or operators to maintain documentation, such as a tracking log, onsite of 100% of the maintenance performed and made available for review by the small MS4 operator or TCEQ within 24 hours of the request.</p>

Minimum Control Measure (MCM) 6: Pollution Prevention and Good Housekeeping for Municipal Operations

TXR.040000, Part IV; Section D.6

Operation and Maintenance (O&M) Program Includes:

- MS4-owned Facilities and Control Inventory
- MS4 Training and Education
- Contractor Oversight Procedures
- O&M Evaluation
- O&M Pollution Prevention Measures
- O&M Pollution Prevention Inspection
- Structural Control Maintenance Procedures

Instructions

The City will develop and implement an O&M program, including an employee training component designed to prevent or reduce pollutant runoff from municipal activities and municipally-owned areas including but not limited to:

- Park and open-space maintenance
- Stormwater system maintenance
- New construction and land disturbances
- Municipal parking lots
- Maintenance and storage yards for vehicles and equipment
- Waste transfer stations
- Salt and sand storage locations

Updates and Recordkeeping

The City will review each MCM 6 section for updates as stated in the permit.

BMP 6.1 MS4-Owned Facilities and Control Inventory

TXR.040000, Part Iv, Section D.6.b.1

Create an Inventory of Facilities and Stormwater Controls

The City will develop and maintain an inventory of facilities and stormwater controls you own and operate in your MS4's regulated area. The inventory will include all permit numbers, registration numbers, and authorizations for each facility or stormwater control. This information can be found in the Central Registry database.

The inventory may include but is not limited to the following:

- Recycling and composting facilities
- Equipment storage and maintenance facilities
- Fuel and material storage sites
- Golf courses and swimming pools
- Landfills and hazardous waste disposal facilities
- Buildings such as schools, libraries, police stations, fire stations, and office buildings
- Public works yards

The City will review and update the inventory at least once annually to address changes or additions to the facilities and stormwater controls.

BMP 6.2 MS4 Training and Education

TXR.040000, Part Iv, Section D.6.b.2

Train MS4 Employees

The City will train all employees and contractors involved in implementing pollution prevention and good housekeeping practices at least once annually.

Document Training Activities

Use this log to document any training activities. Record the training dates and topics covered, and note whether the training was:

- An in-person presentation,
- A training video,
- Training material to read, or
- Some other type of training.

Attendees shall provide their name, title, and signature on the attendance log sheet and these records of attendance shall be kept for review by TCEQ when requested.

BMP 6.4 Contractor Oversight Procedures

TXR.040000, Part Iv, Section D.6.b.4

This BMP is Not Applicable, as the City of Grapevine does not use contractors to perform maintenance activities on the MS4's Facilities. Should this change the following procedures should be implemented.

Develop Contractor Oversight Procedures

Any contractors hired to perform maintenance activities on the City's facilities must be contractually required to comply with all stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures.

The City will develop oversight procedures to ensure contractors are using appropriate control measures and standard operating procedures and maintain these records on-site so they're available for review when requested by TCEQ.

BMP 6.5 O&M Evaluation

TXR.040000, Part Iv, Section D.6.b.5.a-b

Identify Potential Pollutants

The City will evaluate O&M activities and identify their potential to discharge pollutants in stormwater, including but not limited to the examples listed in Table 6.

Table 8: Examples of Potential Pollutants and Pollutant Sources

Potential Pollutants	Potential Pollutant Sources
Paint, paving materials, sediment	Road and parking lot maintenance
Herbicides, pesticides, trash	Right-of-way maintenance
Deicing and anti-icing compounds	Cold weather operations

The City will review and update the pollutants of concern list at least once annually to address changes or additions to O&M activities.

BMP 6.7 O&M Pollution Prevention Measures

TXR.040000, Part Iv, Section D.6.b.5.c

Implement Pollution Prevention Measures

The City will develop a set of pollution prevention measures to reduce the discharge of pollutants listed in the O&M Evaluation Worksheet.

BMP 6.8 O&M Pollution Prevention Inspection Procedures

TXR.040000, Part IV; Section D.6.b.5.d

Develop Pollution Prevention Inspection Procedures

At least once annually, the City will visually inspect 100% of all pollution prevention measures implemented at City-owned facilities to ensure that they are working properly.

The City will develop written procedures that describe the frequency of inspections and how to conduct them.

The City will review and update the inspection procedures at least once annually to address changes or additions to the pollution prevention measures.

BMP 6.9 Maintain Proper Records

Keep a record log of all inspections available for review by TCEQ when requested.

BMP 6.10-6.22 Structural Control Maintenance Procedures

TXR.040000, Part Iv, Section D.6.b.6

Develop Structural Control Maintenance Procedures

At least once annually, the City will perform necessary maintenance on stormwater structural controls.

The City will develop written procedures that describe the frequency of inspections and how to conduct them.

The City will review and update the maintenance procedures at least once annually to address changes or additions to the pollution prevention measures.

Table 9: Pollution Prevention and Good Housekeeping for Municipal Operations Best Management Practices (BMPs)

BMP#	Activity /BMP	Measurable Goal
6.1	Permittee- owned Facilities and Control Inventory as described by Part IV.D.6.(b)(i).	<p>Develop and maintain an annual inventory for 100% of the small MS4 owned and operated facilities and controls in the small MS4 area.</p> <p>Review and update the inventory at least one time annually to address changes or additions to the facilities and controls where applicable.</p>
6.2	Training and Education as described in Part IV.D.6.(b)(2).	<p>Conduct a minimum of one training annually for 100% of employees involved in implementing pollution prevention and good housekeeping practices.</p> <p>Training may be conducted in person or using self-paced training materials such as videos or reading materials.</p>
6.3	Disposal of Waste Material as described in Part IV.D.6.(b)(3).	<p>Ensure that 100% of waste from the MS4 is disposed of in accordance with 30 TAC Chapters 330 or 335, as applicable each year.</p>
6.4	Contractor Requirements and Oversight as described in Part IV.D.6.(b)(4). and made available for review by TCEQ within 24 hours of request.	<p>Each year, ensure that 100% of contractors hired by the MS4 to perform maintenance activities on permittee- owned facilities is contractually required to comply with all of the stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures described in Parts IV D.6.(b)(2)-(6).</p> <p>Implement oversight procedures of contractor activities in 100% of contracts to ensure that contractors are using appropriate control measures and SOPs each year.</p> <p>Oversight procedures must be maintained on-site 100% of the time and made available for review by TCEQ within 24 hours of request.</p>
6.5	Assessment of permittee-owned operations as	<p>Evaluate 100% of O&M activities, in conjunction with procedure reviews if appropriate, for their potential to</p>

BMP#	Activity /BMP	Measurable Goal
	described in Part IV.D.6.(b)(s)a.	<p>discharge pollutants in stormwater annually including but not limited to:</p> <ul style="list-style-type: none"> - Road and parking lot maintenance, including such areas as pothole repair, pavement marking, sealing, and re-paving; - Bridge maintenance, including such areas as re- chipping, grinding, and saw cutting; - Cold weather operations, including plowing, sanding, and application of deicing and anti-icing compounds and maintenance of snow disposal areas; and - Right-of-way maintenance, including mowing, herbicide and pesticide application, and planting vegetation.
6.6	Identify pollutants of concern as described in Part IV.D.6.(b)(s)b.	<p>Identify pollutants of concern that could be discharged from all of the O&M activities described in Part IV.D.6.(b)(s)b and maintain a list of 100% of the pollutants identified.</p> <p>Including for example, metals; chlorides; hydrocarbons such as benzene, toluene, ethyl benzene, and xylenes; sediment; and trash.</p> <p>Review and update the pollutants of concern list at least one time annually to address changes or additions to the O&M activities where applicable.</p>
6.7	Pollution Prevention Measures as described in Part IV.D.6.(b)(s)c.	<p>Develop and implement a set of pollution prevention measures that will reduce the discharge of pollutants in stormwater from the permittee-owned operations. Implement at least two of the following pollution prevention measures:</p> <ul style="list-style-type: none"> - Replace at least 50% of the MS4's materials and chemicals with more environmentally

BMP#	Activity /BMP	Measurable Goal
		<p>friendly materials or methods by the end of the permit term;</p> <ul style="list-style-type: none"> - Track 100% of the application of deicing and anti-icing compounds in the MS4 area and record the amount of compound used for each application annually; - Use suspended tarps, booms, or vacuums to capture paint, solvents, rust, paint chips and other pollutants during 80% of regular bridge maintenance each year; and - Place barriers around or conduct runoff away from 100% of deicing chemical storage areas to prevent discharge into surface waters each year.
6.8	Inspection of Pollution Prevention Measures as described in Part IV.D.6.(b)(s)d.	<p>At least one time annually, visually inspect 100% of pollution prevention measures implemented at permittee-owned facilities to ensure they are working properly.</p> <p>Develop and maintain written procedures that describe the frequency of inspections and how they will be conducted.</p> <p>Review and update the inspection procedures at least one time annually to address changes or additions to the pollution prevention measures.</p> <p>Maintain a log of 100% of the inspections conducted annually and make the log available for review by the TCEQ within 24 hours of a request.</p>
6.9	Maintain Inspection Reports as described in Part IV.D.5.(c)(2).	<p>Document inspection findings in an inspection report for 100% of inspections performed each year.</p> <p>Make 100% of inspection reports available to TCEQ staff for review within 24 hours of request.</p>
6.10	Storm Sewer System Operation and Maintenance Program as described by Part IV.D.6.(c)(1)a.	<p>Develop and implement an O&M program to reduce to the MEP the collection of pollutants in catch basins and other surface drainage structures each year.</p> <p>Implement at least two of the following:</p> <ul style="list-style-type: none"> - Inspect at least 25% of the small MS4 owned and operated detention basins each year. - Inspect at least 20% of the small MS4 owned and operated stormwater inlets in problem areas identified by the small MS4 operator (for

BMP#	Activity /BMP	Measurable Goal
		<p>example, areas with recurrent illegal dumping) each year.</p> <ul style="list-style-type: none"> - Inspect and clean at least 20% of the small MS4 owned and operated surface drainage system in problem areas identified by the small MS4 operator (for example, areas with recurrent illegal dumping) each year. - Collect and dispose of or recycle used oil and other household hazardous waste (HHW) from the public in at least three events each year. An event is any day in which the public has an opportunity to dispose of or recycle HHW either through collection or drop off
6.11	Storm Sewer System Operation and Maintenance Problem Areas as described by Part IV.D.6.(c)(1)b.	Develop a list of 100% of the identified potential problem areas. Identify and prioritize problem areas for increased inspection (for example, areas with recurrent illegal dumping). Review and update the list of potential problem areas at least one time annually to address changes or additions to the list.

BMP#	Activity /BMP	Measurable Goal
6.12	Operation and Maintenance Program to Reduce Discharges of Pollutants from Roads as described by Part IV.D.6.(c)(2).	<p>Implement the following:</p> <ul style="list-style-type: none"> - A street sweeping and cleaning program to address 75% of the MS4 area where street sweeping is technically feasible annually. <ul style="list-style-type: none"> • Ensure 100% of the MS4 area where street sweeping is technically feasible is addressed at least two times by the end of the permit term. - One or a combination of the following non-street sweeping controls: <ul style="list-style-type: none"> • an inlet protection program addressing 100% of the small MS4 area where street sweeping is technically infeasible by the end of the permit term, which must include an implementation schedule and a waste disposal procedure, or • Ensure that trash receptacles, or similar trash capturing devices are provided and maintained in 100% of the areas identified as high trash generating areas within the areas where street sweeping is technically infeasible (such as areas near parks, event spaces, etc.).
6.13	Mapping of Facilities as described by Part IV.D.6.(c)(3).	<p>On a map of the area regulated under this general permit, identify where 100% of the permittee-owned and operated facilities and stormwater controls are located.</p> <p>Review and update the map at least one time annually to address changes or additions to the facilities and controls.</p>
6.14	Assessment of Facilities' Pollutant Discharge Potential as described by Part IV.D.6.(c)(4)a.	Review 100% of the facilities identified in Part IV.D.6.(b) at least one time per permit term for their potential to discharge pollutants into stormwater.

BMP#	Activity /BMP	Measurable Goal
6.15	Identification of high priority facilities as described by Part N.D.6.(c)(4)b.	Based on the assessment in Part N.D.6.(c)(4)a., the permittee shall identify as high priority those facilities that have a high potential to generate stormwater pollutants. A list of 100% of the identified facilities must be developed and maintained each year. Review and update the list of high priority facilities at least one time annually to address changes or additions to the facilities.
6.16	Documentation of Assessment Results as described by Part IV.D.6.(c)(4)c.	Document the results of all the assessments and maintain copies of 100% of the site evaluation checklists used to conduct the assessments each year. The documentation must include: <ul style="list-style-type: none"> - The results of the permittee's initial assessment, and any identified deficiencies and corrective actions taken.
6.17	Development of Facility- Specific SOPs as described by Part IV.D.6.(c)(s).	Develop facility-specific stormwater management SOPs for 100% of the MS4 owned and operated facilities. A description of 100% of the BMPs developed to comply with Part IV.D.6.(c)(6) must be included in each facility-specific SOP. Review and update the facility-specific SOPs at least onetime annually to address changes or additions to the facilities. If requested, SOPs must be made available to TCEQ within 24 hours of the request for review.
6.18	Stormwater Controls for High Priority Facilities, General Good Housekeeping as described by Part N.D.6.(c)(6)a.	Shelter from exposure to stormwater 100% of material with a potential to contribute to stormwater pollution (such as, fertilizers, solvents, paints, cleaners, automotive products, etc.) each year.
6.19	Stormwater Controls for High Priority Facilities, De- icing and anti-icing material storage as described by Part IV.D.6.(c)(6)b.	Implement one or a combination of the following: Ensure that 100% of stormwater runoff from storage piles of salt and other de-icing and anti-icing materials is not discharged each year. Or ensure that 100% of discharges from the piles are authorized under a separate discharge permit each year.

BMP#	Activity /BMP	Measurable Goal
6.20	Stormwater Controls for High Priority Facilities, Fueling and vehicle maintenance as described by Part IV.D.6.(c)(6)c.	<p>Develop and implement SOPs that address spill prevention and spill control at 100% of permittee-owned and operated vehicle fueling, vehicle maintenance, and bulk fuel delivery facilities each year.</p> <p>Review and update the facility specific SOPs at least one time annually to address changes or additions to the facilities.</p>
6.21	Stormwater Controls for High Priority Facilities, Equipment and vehicle washing as described by Part IV.D.6.(c)(6)d.	<p>Develop and implement SOPs that address equipment and vehicle washing activities at 100% of the permittee-owned and operated facilities where washing occurs.</p> <p>To ensure that wastewater is not discharged under this general permit, the permittee's SOP must include one or more of the following:</p> <ul style="list-style-type: none"> - installing a vehicle wash reclaim system, - capturing and hauling the wastewater for proper disposal, - connecting to sanitary sewer (where applicable and approved by local authorities), - ceasing the washing activity, or - applying for and obtaining a separate TPDES permit. <p>Review and update the facility specific SOPs at least one time annually to address changes or additions to the facilities.</p>
6.22	Inspections as described by Part IV.D.6.(c)(7).	<p>Develop and implement an inspection program, which at a minimum must include inspections of 100% of high priority permittee-owned facilities one time per year.</p> <p>The results of 100% of the inspections and observations must be documented and available for review by the TCEQ each year.</p>

Minimum Control Measure (MCM) 7: Industrial Stormwater Sources

TXR.040000, Part IV; Section D.7

The City of Grapevine is a Level 3 MS4 and is not required to meet the requirements of MCM 7.

Minimum Control Measure (MCM) 8: Authorization for Construction Activities where the Small MS4 is the Site Operator (Optional)

TXR.040000, Part IV; Section D.8

The City of Grapevine has chosen not to participate in the optional MCM 8.

Impaired Water Bodies and Total Maximum Daily Load (TMDL) Requirements

TXR.040000, Part III

The City of Grapevine does not directly discharge to any impaired water body with an approved TMDL, as of the writing of this SWMP. The City of Grapevine will continue to monitor the release of TMDL information to determine if additional requirements will need to be met in the future.

Includes:

- Pollutant of Concern Benchmarks
- Monitoring/Assessment Plan

Instructions

If your MS4 discharges to an impaired water body with an approved TMDL, and stormwater has the potential to cause or contribute to the impairment, then you will need to:

- Identify controls used on-site to target POCs.
- Set benchmarks and measurable goals.
- Develop a monitoring and assessment plan.

Updates and Recordkeeping

Your annual reports will need to include:

- An analysis of how the selected activities and BMPs will be effective in achieving the benchmark value.

- Information on compliance with Part III, Section B of the general permit (Discharges Directly to Water Quality Impaired Water Bodies Without an Approved TMDL), including the results of any sampling you conduct.

POC Benchmarks

TXR.040000, Part III, Section A.3

Identify benchmarks for your MS4's POCs

Benchmarks should be designed to determine if the established BMPs are effective in addressing the POCs in stormwater discharge(s) from the MS4 to the MEP. Refer to TCEO Water Quality Management Plans for updated TMDLs and Waste Load Allocations (WLA). If your small MS4 is subject to a TMDL that identifies a WLA for permitted MS4 stormwater sources, then identify this as your benchmark.

Monitoring and Assessment Plan

TXR.040000, Part III, Section A.6-7

Develop a Monitoring and Assessment Plan

Assess progress meeting benchmarks and determine the effectiveness of your MS4's BMPs. Review whether the identified BMPs and measurable goals are appropriate.

You can assess progress towards set benchmarks by using program implementation indicators, such as:

- The number of sources identified or eliminated.
- A decrease in illegal dumping.
- An increase in illegal dumping reporting.
- The number of educational opportunities conducted.
- A reduction in sanitary sewer overflows.
- An increase in illegal discharges detected through dry screening.

You can assess improvements in water quality by:

- Using available data for segment and assessment units of water bodies from other reliable sources.
- Proposing and justifying a different approach such as collecting additional instream or outfall monitoring data, etc.
- Acquiring data from TCEQ, local river authorities, partnerships, and other local efforts as appropriate.

Identify alternative BMPs as needed

If you observe no progress toward the benchmark from either SWMP implementation or water quality assessments by the end of the permit's third year, you will need to do one of the following:

- Identify alternative, focused BMPs that address new or increased efforts towards the benchmark.
- Develop a new approach to identify the most significant sources of the POC and develop alternative, focused BMPs for those sources.