

Phase II MS4 Annual Report

For



Stormwater Management Program
Year 2
(January 1, 2020 – December 31, 2020)
Permit Authorization Number: TXR040103

Prepared For



Texas Commission on Environmental Quality

March 2021

Prepared By



5237 N. Riverside Drive, Suite 100
Fort Worth, TX 76137
(817) 336-5773

TNP PROJECT # EVR 17284



Phase II MS4 Annual Report Form TPDES General Permit Number TXR040000

A. General Information

Authorization Number: TXR040103

Reporting Year: Year 2

Annual Report Year: Calendar Year

Beginning and End Dates: January 1, 2020 – December 31, 2020

MS4 Operator Level: Level 1

Name of MS4/Permittee: City of Everman MS4

Contact Name: Mr. Jeff Reed, Director of Streets and Parks

Telephone Number: 817-293-0525

Mailing Address: 212 North Race Street
Everman, TX 76140

Email Address: jreed@evermantx.net

A copy of the annual report was submitted to the TCEQ Region.

Yes

No

Region the annual report was submitted to: TCEQ Region 4.

B. Status of Compliance with the MS4 GP and SWMP (Part IV Section B.2(a))

1. Provide information on the status of complying with permit conditions: (TXR040000 Part IV.b.2)

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Permittee is currently in compliance with recordkeeping and reporting requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edward Aquifer limitations, compliance history, etc.).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Permittee conducted an annual review of its SWMP in conjunction with preparation of the annual report.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



Phase II MS4 Annual Report Form TPDES General Permit Number TXR040000

2. Provide a general assessment of the appropriateness of the selected BMPs. Use table below or attach a summary, as appropriate:

MCM	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
1	Educational Brochures	Yes, educating the public about stormwater is an important part of reducing pollution that enters into stormwater runoff.
1	Park Cleanup	Yes, cleaning up litter, and educating residents about stormwater pollution reduces the amount of pollutants that may enter into storm drains.
1	Pet Waste Management	Yes, by teaching residents to pick up after their pets, the amount of bacteria entering local waterways can be decreased
1	Storm Drain Marking	Yes, a marker on the storm drains will remind residents that storm drains discharge directly to creeks and streams. This can prevent and may prevent dumping and discharge of pollutants into the storm drain.
1	Youth Education	Yes, educating children about stormwater pollution increases awareness and reinforces what can be done to reduce it.
1	Stormwater Education	Yes, it is important to educate residents about the importance of the program.
1	SWMP Annual Review	No, however, it is important to review the program annually to ensure the program is clear, specific, and measurable.
2	Illicit Discharge Ordinance	Yes, regulating and enforcing illicit discharges is important in reducing pollution.
2	Storm Drainage Outfall Map	Yes, being able to easily identify the source of illicit discharges is vital to protecting stormwater quality.
2	Education & Training on Illicit Discharges	Yes, educating the City staff on identifying and taking corrective actions can eliminate future illicit discharges.
2	Public Reporting and Response Procedures	Yes, enabling citizens to report illicit discharges is very important for the City to locate and address the discharges in a timely manner.
2	Source Investigation & Elimination	Yes, determining the source of an illicit discharge is important in order to begin corrective actions and eliminate future discharges.
3	Erosion and Sediment Control Ordinance	Yes, by allowing the City to enforce erosion and sediment control on construction sites, pollutants from stormwater runoff are reduced.
3	Construction Plan Review Procedures	Yes, by ensuring that construction sites are enacting appropriate erosion and sediment control BMPs.



Phase II MS4 Annual Report Form

TPDES General Permit Number TXR040000

MCM	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
3	Construction Site Inspections & Enforcement	Yes, performing the site inspections will ensure proper installation and maintenance of erosion and sediment controls and reduce transport of sediment load.
3	Construction Stormwater Training	Yes, stormwater pollution can be reduced by properly training staff to identify, report, and correct improper erosion control practices on construction sites.
4	Post-Construction Ordinance	Yes, allows the City to enforce post-construction and long term maintenance requirements, reducing the amount of pollution that might enter the storm drain from runoff.
4	Long-Term Maintenance of Post-Construction BMPs	Yes, developing long-term operation and maintenance requirements ensures that post-construction BMPs will be maintained according to the City's criteria.
5	Facility & Stormwater Control Inventory	Yes, maintaining an inventory of City-owned facilities and stormwater controls identifies facilities and controls of concern in order to establish pollution prevention measures and sources of pollution.
5	Municipal Employee Training Program	Yes, by training employees to identify, and properly record, and respond to any illicit discharges or illegal dumping around the city, stormwater pollution may be reduced.
5	Contractor Requirements & Oversight	Yes, developing contractual requirements will ensure that contractors are using appropriate control measures and standard operating procedures when working within the MS4.
5	Municipal Operation & Maintenance Activities	Yes, performing the assessment identifies possible pollutants and solutions to prevent pollution.



Phase II MS4 Annual Report Form TPDES General Permit Number TXR040000

3. Describe progress towards reducing the discharge of pollutants to the maximum extent practicable. Summarize any information used (such as visual observation, amount of materials removed or prevented from entering the MS4, or if required monitoring data, etc.) to evaluate reductions in the discharge of pollutants. Use a table or attach a narrative description as appropriate.

MCM	BMP	Information Used	Quantity	Units	Does BMP Demonstrate a Direct Reduction in Pollutants? (yes or no, explain)
1	Educational Brochures	City Event	0	Event	No, but educating the public about stormwater pollution is an important part of the stormwater program.
1	Park Cleanup	Cleanup Event	0	Event	Yes, picking up litter is a direct reduction of pollutants
1	Pet Waste Management	City Event	0	Event	No, but educating the public about stormwater pollution is necessary for a successful program.
1	Storm Drain Marking	Inlets Inspected	4	Inlets	No, but by marking storm drains, it could deter residents/commercial businesses from putting waste down the storm drain, which leads to less pollution in the waterways.
1	Youth Education	Number of Educational Material Distributed	0	Educational Brochures	No, but educating the youth on stormwater pollution is an important part of the stormwater program.
1	SWMP Annual Review	BMPs Reviewed	21	BMPs	No, however, reviewing the program and BMPs annually ensures the program is compliant with TPDES permit.
2	Illicit Discharge Ordinance	Number of Violations	1	Violations	No, but the City needs to be able to enforce the ordinance to deter the public from putting pollutants in waterways.
2	Storm Drainage Outfall Map	Outfalls Mapped	100%	Outfalls	No, but the BMP allows staff to easily track and respond to illicit discharges.
2	Education & Training on Illicit Discharges	Number of Training Attendees	1	Attendee	No, but providing educational information allows the staff to identify and take corrective actions on illicit discharges.



Phase II MS4 Annual Report Form TPDES General Permit Number TXR040000

MCM	BMP	Information Used	Quantity	Units	Does BMP Demonstrate a Direct Reduction in Pollutants? (yes or no, explain)
2	Public Reporting and Response Procedures	Number of Illicit Discharge Inspection	0	Illicit Discharge Inspection	No, but public reporting allows the City to have a quicker response to any illicit discharges.
2	Source Investigation & Elimination	Number of Violations	1	Violations	No, but it is important that the City follows proper procedures for addressing the source of an illicit discharge to prevent any future illicit discharges.
3	Erosion and Sediment Control Ordinance	Number of Construction Sites	0	Construction Inspections	No, but placing requirements on construction sites reduces the amount of pollution in the storm drains from site runoff.
3	Construction Plan Review Procedures	Number of Construction Plans Reviewed	1	Construction Plans	No, but it is important the City have proper review procedures to ensure that construction sites are enacting appropriate pollutant reducing BMPs.
3	Construction Site Inspections & Enforcement	Number of Construction Sites	0	Construction Inspections	No, but it is important for the City to have proper inspection procedures to ensure the construction sites are complying the City's Erosion and Sediment Control Ordinance.
3	Construction Stormwater Training	Number of Training Attendees	1	Attendee	No, but it is important that inspectors be trained such that they can identify and correct improper erosion control practices and prevent stormwater pollution from construction sites.
4	Post-Construction Ordinance	Number of Post-Construction Inspections	0	Post-Construction Inspections	No, but requiring developers to install post-construction runoff control measures reduces the amount of pollution from the site long term
4	Long-Term Maintenance of Post-Construction BMPs	Number of Maintenance Plan Implemented	0	Maintenance Plans	Yes, developing long-term operation and maintenance requirements ensures post-construction BMPs will be maintained according to the City's criteria.



Phase II MS4 Annual Report Form
TPDES General Permit Number TXR040000

MCM	BMP	Information Used	Quantity	Units	Does BMP Demonstrate a Direct Reduction in Pollutants? (yes or no, explain)
5	Facility and Stormwater Control Inventory	Facilities & Stormwater Controls	12	Controls	No, however it is important to identify City-owned facilities and stormwater controls in order to establish pollution prevention measures and sources of pollution.
5	Municipal Employee Training Program	Number of Training Attendees	1	Attendee	No, but training the employees is important so that stormwater pollution may be prevented or reduced.
5	Contractor Requirements & Oversight	Number of Contractual Requirements	0	Contractual Requirements	No, but implementing contractual requirements and oversight ensures that MS4-hired contractors are accountable to the MS4'd pollution reduction goals.
5	Municipal Operations & Maintenance Activities	Number of Inspections	0	Inspections	No, however performing the assessment on municipal operations and maintenance activities identifies possible pollutants and will help develop standard operating procedures to reduce and minimize pollutant discharges.



Phase II MS4 Annual Report Form TPDES General Permit Number TXR040000

4. Provide the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals.

MCM	Measurable Goal	Success
1	Provide brochures to the public at City facilities. Distribute brochures to at least one City event each year.	Did not meet goal – City events were canceled due to COVID. The City was unable to distribute brochures.
1	Advertise the cleanup at least once on the City's website.	Did not meet goal – City events were canceled due to COVID.
1	Coordinate at least once annual cleanup event.	Did not meet goal – City events were canceled due to COVID.
1	Provide educational material about pet waste at 1 City event annually.	Did not meet goal – City events were canceled due to COVID.
1	Annually inspect 20% of marked inlets. Perform any maintenance.	Met goal. The City inspected 20% (4) of marked inlets.
1	Distribute educational material to local schools.	Did not meet goal – Schools were either closed or had limited contact due to COVID.
1	Post SWMP on City's website no later than 30 days after the approval date.	Will post on website once SWMP is approved.
1	Post annual report on City's website no later than 30 days after the due date.	Did not meet goal – The City will post the annual reports on City website this year.
1	Annually review SWMP to ensure compliance.	Met goal – The City reviewed the program and deemed no changes necessary.
2	Conduct 100% of illicit discharge inspections.	Met goal – The City conduct an illicit discharge inspection.
2	Investigate 100% of illicit discharges reported.	Met goal – The City investigated 1 illicit discharge reported.
2	Annually update the storm drainage system maps as necessary.	Met goal – 100% of the outfalls have been mapped.
2	Provide annual IDDE training at least once a year for designated City staff and new hires.	Met goal – A City staff member attended NCTCOG training on February 26, 2020.
2	Investigate 100% of illicit discharges reported.	Met goal – The City investigated 1 illicit discharge reported.



Phase II MS4 Annual Report Form

TPDES General Permit Number TXR040000

MCM	Measurable Goal	Success
2	Conduct 100% of illicit discharge inspections.	Met goal – The City conduct an illicit discharge inspection.
2	Investigate 100% of illicit discharges reported.	Met goal – The City investigated 1 illicit discharge reported.
3	Inspect 100% of construction sites each year.	There was no active construction to inspect this year.
3	Inspect 100% of complaints driven site each year.	There was no active construction to inspect this year.
3	Administer the construction plan review process for 100% of new regulated construction projects.	Met Goal – The City engineer administered construction plan review for 1 new regulated construction projects.
3	Inspect 100% of construction sites each year.	There was no active construction to inspect this year.
3	Inspect 100% of complaint driven site each year.	There was no active construction to inspect this year.
3	Conduct annual construction stormwater training at least once a year for designated City staff and new hires.	Met goal – A City staff member attended NCTCOG training on February 26, 2020.
4	Investigate 100% of post-construction violations or complaints.	Met goal – There are currently no post-construction BMPs installed.
4	Implement maintenance plans for new owners or operators once post-construction BMPs is installed.	Met goal – The City has requirements set in place for long-term maintenance and operations.
5	Maintain an inventory of City-owned and operated facilities and stormwater controls and update as necessary.	Met goal – City maintains inventory of City-owned and operated facilities.
5	Provide annual municipal employee training at least once a year for designated staff and new hires.	Met goal – A City staff member attended NCTCOG training on February 26, 2020.
5	Implement contractual requirements to new contractors.	Met goal – The City has requirements set in place for contractors. However, the City only occupies contractor for emergency maintenance.
5	Maintain contracts with current contractors and revise as necessary.	Met goal – The City has requirements in place for contractors to comply with current stormwater requirements.
5	Inspect 100% of municipal operations and facilities once a year.	Did not meet goal – City facilities were closed to prevent the spread of COVID.



Phase II MS4 Annual Report Form TPDES General Permit Number TXR040000

C. Stormwater Data Summary (Part IV Section B.2. (b))

1. Provide a summary of all information used, including any lab results (if sampling was conducted) to assess the success of the SWMP at reducing the discharge of pollutants to the MEP.

The following BMPs were used to evaluate the success of the SWMP at reducing pollutants to the maximum extent practicable.

- Public Reporting & Response Procedures
 - The City actively encourages, tracks, and responds to residents observations of illicit discharges. While this does not require City forces to actively monitor, it allows for more “boots on the ground”, more visual coverage, and city awareness and response.
- Source Investigation and Elimination
 - The City has developed written procedures for responding to illicit discharges including inspections, investigations, and corrective actions. Additionally, City staff that are routinely exposed to pollutant sources are trained to monitor and observe conditions as part of their day-to-day operations.
- Construction Site Inspections and Enforcement
 - This BMP requires city stormwater personnel to be actively monitoring construction sites for stormwater pollutants.
- Municipal Operation and Maintenance Activities
 - Observing the municipal operations and maintenance activities identifies possible pollutants that can be discharged into storm drains. In future years, the City has identified a BMP that will define monitoring and inspection frequencies which will result in active monitoring and observance of potential pollution.

D. Impaired Waterbodies (Part IV Section B.2. (c))

1. **Identify whether an impaired water within the permitted area was added to the latest EPA-approved 303(d) list of the Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d). List any newly-identified impaired waters below by including the name of the waterbody and cause of impairment.**

- The City of Everman discharges into North Fork Chambers Creek, South Fort Chamber Creek and Village Creek. The state classified waterbody that ultimately receives the discharge from Everman is Lake Arlington (#0828). While this waterbody is not located within a TMDL watershed, Village Creek is listed as impaired on the TCEQ 2014 303d Impaired Waterbodies list for bacteria. The City of Everman has implemented BMPs specifically targeting bacteria, including Pet Waste Management and Park Cleanups. The City will monitor and determine the effectiveness of these BMPs throughout the permit term and make any changes as needed.

2. **If applicable, explain below any activities taken to address the discharge to impaired waterbodies, including any sampling results and a summary of the small MS4's BMPs used to address the pollutant of concern.**

- Not applicable. The City of Everman discharges into an impaired water body (Village Creek) without an approved TMDL by TCEQ or EPA.



Phase II MS4 Annual Report Form
TPDES General Permit Number TXR040000

3. Describe the implementation of targeted controls if the small MS4 discharges to an impaired waterbody with an approved TMDL.

- Not applicable. The City of Everman discharges into an impaired water body (Village Creek) without an approved TMDL by TCEQ or EPA.

4. Report the benchmark identified by the MS4 and assessment activities:

- Not applicable. The City of Everman discharges into an impaired water body (Village Creek) without an approved TMDL by TCEQ or EPA.

5. Provide an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark:

- Not applicable. The City of Everman discharges into an impaired water body (Village Creek) without an approved TMDL by TCEQ or EPA.

6. If applicable, report on focused BMPs to address impairment for bacteria:

Description of bacteria-focused BMP	Comments/ Discussion
Park Cleanup	The program reduces the amount of trash in the local waterways.
Pet Waste Management	Informing residents about picking up after their pets can decrease the amount of bacteria entering local waterways.
Source Investigation and Elimination	The City has developed written procedures for responding to illicit discharges including inspections, investigations, and corrective actions. Additionally, City staff that are routinely exposed to pollutant sources are trained to monitor and observe conditions as part of their day-to-day operations.

7. Access the progress to determine BMP's effectiveness in achieving the benchmark.

- Not applicable. The City of Everman discharges into an impaired water body (Village Creek) without an approved TMDL by TCEQ or EPA.



Phase II MS4 Annual Report Form

TPDES General Permit Number TXR040000

E. Stormwater Activities (Part IV Section B.2. (d))

Describe any stormwater activities the MS4 operator has planned for the next reporting year.

MCM	BMP	Stormwater Activity	Description/Comments*
1	Educational Brochures	Provide brochures to the public at City facilities. Distribute brochures to at least one City event each year.	The City will continue to provide educational brochures to City residents.
1	Park Cleanup	Advertise the cleanup at least once of the City's website.	The City will continue to advertise the cleanup on the City's website.
1	Park Cleanup	Coordinate at least once annual cleanup event.	The City will continue to host an annual cleanup event.
1	Pet Waste Management	Provide educational material pet waste at 1 City events annually.	The City will distribute educational material about pet waste management to residents.
1	Storm Drain Marking	Annually inspect 20% of marked inlets. Perform any maintenance if necessary.	The City will continue to maintain storm drains each year.
1	Youth Education	Distribute educational material to local schools.	The City will continue to educate material to local schools.
1	Stormwater Education	Post SWMP on City's website no later than 30 days after the approval date.	The City will post the SWMP once the program is approved.
1	Stormwater Education	Post annual reports on City's website no later than 30 days after the due date.	The City will post the annual reports on the City's website.
1	SWMP Annual Review	Annually review SWMP to ensure compliance.	The City will annually review the SWMP to ensure compliance.
2	Illicit Discharge Ordinance	Conduct 100% of illicit discharge inspections.	The City will continue to enforce the illicit discharge ordinance and document any actions taken.



Phase II MS4 Annual Report Form TPDES General Permit Number TXR040000

MCM	BMP	Stormwater Activity	Description/Comments*
2	Illicit Discharge Ordinance	Investigate 100% of illicit discharges reported.	The City will continue to investigate 100% of illicit discharges.
2	Storm Drain Outfall Map	Annually update the storm drainage system maps as necessary.	The City will update the storm drain outfall map based on development or redevelopment.
2	Education and Training on Illicit Discharges	Provide annual IDDE training at least once a year for designated City staff and new hires.	The City will provide illicit discharge training for pertinent City staff and document attendees and training materials used.
2	Public Reporting and Response Procedures	Investigate 100% of illicit discharges reported.	The City will investigate 100% of illicit discharges reported.
2	Source Investigation and Elimination	Conduct 100% of illicit discharge inspections.	The City will conduct 100% of illicit discharge inspections.
2	Source Investigation and Elimination	Investigate 100% of illicit discharges reported.	The City will investigate 100% of illicit discharges reported.
3	Erosion and Sediment Control Ordinance	Inspect 100% of construction sites each year.	The City will inspect 100% of construction sites each year.
3	Erosion and Sediment Control Ordinance	Inspect 100% of complaints driven site each year.	The City will inspect 100% of complaint driven site each year.
3	Construction Plan Review Procedures	Administer the construction plan review process for 100% of new regulated construction projects.	The City will continue to administer the review process for all new construction.
3	Construction Site Inspections and Enforcement	Inspect 100% of construction sites each year.	The City's stormwater inspector(s) will administer the inspection and enforcement program and document construction site inspections and follow ups.
3	Construction Site Inspections and Enforcement	Inspect 100% of complaint driven site each year.	The City will inspect 100% of complaint driven site each year.



Phase II MS4 Annual Report Form TPDES General Permit Number TXR040000

MCM	BMP	Stormwater Activity	Description/Comments*
3	Construction Stormwater Training	Conduct annual construction stormwater training at least once a year for designated City staff and new hires.	The City will continue to implement and track the training program for the designated employees.
4	Post Construction Ordinance	Investigate 100% of post-construction violations or complaints.	The City will implement and enforce the newly enacted Post-Construction Ordinance and document any enforcement actions taken.
4	Long-Term Maintenance of Post-Construction BMPs	Implement maintenance plans for new owners or operators once post-construction BMPs is installed.	The City will develop requirements for the long-term operation and maintenance of structural controls installed on the development sites.
5	Facility and Stormwater Control Inventory	Maintain an inventory of City-owned and operated facilities and stormwater controls and update as necessary.	The City will prepare and maintain an inventory of City-owned and operated facilities and stormwater controls.
5	Municipal Employee Training Program	Provide annual municipal employee training at least once a year for designated staff and new hires.	The City will implement the municipal employee training program and maintain a training attendee list with signatures.
5	Contractor Requirements and Oversight	Implement contract requirements to new contractors.	The City will develop contractual requirements for applicable contractor agreements and written oversight procedures.
5	Contractor Requirements and Oversight	Maintain contracts with current contractors and revise as necessary.	The City will maintain contracts with current and new contractors.
5	Municipal Operation and Maintenance Activities	Inspect 100% of municipal operations and facilities once a year.	The City will develop pollution prevention measures for municipal O&M activities and select inspection frequencies.



Phase II MS4 Annual Report Form TPDES General Permit Number TXR040000

F. Stormwater Modifications (Part IV Section B.2.(e))

1. The SWMP and MCM implementation procedures are reviewed each year.

Yes

No

2. Changes have been made or are proposed to the SWMP since the NOI or the last annual report, including changes in response to TCEQ's review.

Yes

No

If "Yes", report on changes made to measurable goals and BMPs:

G. Additional BMPs (Part IV Section B.2.(f))

Provide a description and schedule for implementation of additional BMPs that may be necessary, based on monitoring results, to ensure compliance with applicable TMDLs and implementation plans.

- No additional BMPs are anticipated for the City of Everman at this time.

H. Additional Information (Part IV Section B.2.(g))

1. Is the permittee relying on another entity/ies to satisfy some of its permit obligations?

Yes

No

2.a. Is the named permittee sharing a SWMP with other entities?

Yes

No

2.b. If 'yes,' is this a system-wide annual report including information for all permittees?

Yes

No

I. Construction Activities (Part IV Section B.2.(h-i))

1. The number of construction projects in the jurisdiction of the MS4 where the permittee was not the construction site operator (as provided in submittals to the MS4 operator via notices of intent or site notices). 0

2. Does the permittee utilize the optional seventh MCM related to construction?



Phase II MS4 Annual Report Form TPDES General Permit Number TXR040000

Yes

No

2.b. If 'yes' then provide the following info for this permit year:

The number of municipal construction activities authorized under this general permit	N/A
The total number of acres disturbed for municipal construction projects	N/A

J. Certification

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

Name: Craig W. Spencer

Title: City Manager

Signature: _____

Date: _____



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Public Education, Outreach, & Involvement**

BMP Title: **Educational Brochures**

Responsible Department: Public Works

Measurable Goal: Year 2 – Provide brochures to the public at City facilities.
Distribute brochures to at least one City event each year.

1. Was the measurable goal accomplished for this permit year? Yes No
(a) If so, explain what was done to accomplish the measurable goal.

(b) If not, why was the measurable goal not accomplished?

Stormwater Education flyers are available for residents and visitors at City Hall and the Library. Unfortunately, City events were canceled due to COVID, so no educational brochures were distributed.

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No
3. Was this BMP considered to be successful? Yes No
(a) Please explain.

The City understands that educating the public about stormwater pollution is paramount to a successful program and raises awareness of stormwater pollution.

4. Are any changes to this BMP recommended for the next permit term? Yes No
(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No

Landscape Irrigation

A "TAKE CARE OF TEXAS" GUIDE

One of the most important steps in maintaining a healthy landscape is effective irrigation. A properly watered lawn and garden is more resistant to pests and other lawn problems. However, much of the water used to maintain our landscapes is wasted through inefficient watering techniques. By developing a water-efficient lawn and garden, you can maintain a healthy and beautiful yard that benefits the environment.

Water-Efficient Landscapes

A water-efficient landscape starts with plant selection. Choosing plants adapted to the area will help make your landscape both beautiful and water-efficient. Plants native to your area typically require less maintenance and smaller amounts of pesticides, fertilizers, and supplemental water.

Keep in mind, though, that newly established landscaping will require

more water than an established area. Adjust your watering schedule according to the needs of your plants.*

Watering Mistakes

Much of the water applied to lawns and gardens never gets absorbed by the plants. Common ways that water is wasted include:

- **Runoff.** Applying water too rapidly causes runoff, because grass and plants can only absorb so much water at a time. When runoff occurs, soil, fertilizers, and pesticides can be carried to nearby streams.
- **Evaporation.** Watering in the middle of the day or using a sprinkler that sprays a fine mist causes much of the water you apply to be lost through evaporation. Plants don't have enough time to absorb the water before it is evaporated by the sun.
- **Underwatering.** Watering too little is wasteful because it does

little to alleviate any drought stress that the plants may have.

- **Overwatering.** Applying too much or too often causes the greatest waste of water. In addition to overwatering the plant, excessive irrigation can leach nutrients deep into the soil away from plant roots, which increases the chances of runoff pollution.

Good Watering Techniques

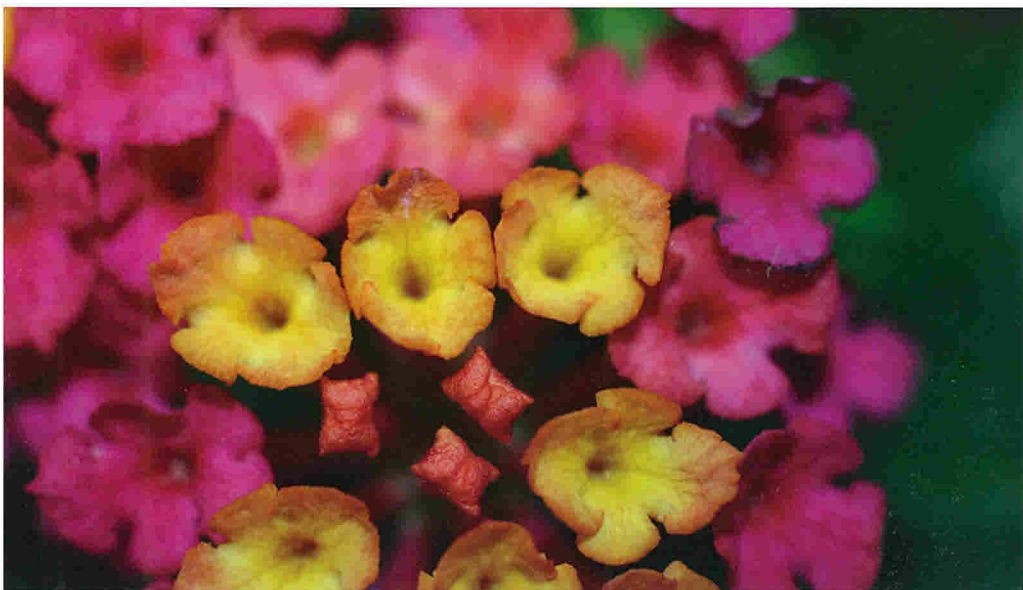
The key to watering lawns is to apply water infrequently, yet thoroughly. This creates a deep, well-rooted lawn that efficiently uses the water that is stored in the soil. To know when to water your lawn, simply observe the grass. Wilting and discoloration are signs of water stress. At the first sign of wilting, you have 24 to 48 hours before damage occurs.

To water properly, apply 1 inch of water to the lawn as rapidly as possible without runoff.

- An easy way to measure your application of water is to place a 6-ounce tuna can on your lawn. When the can is full, you have applied enough water.
- If you start to notice runoff before the can is full, turn off the water. Then, wait for approximately one hour to allow the grass to absorb the water, turn the water on again, and wait for the tuna can to fill.

Water early in the morning, before 10 a.m. Avoid watering from mid-morning to late afternoon, when you can lose one-third of your water to evaporation. Also avoid watering in the evening, because lawns and plants that are left wet overnight are more prone to disease.*

**Always comply with your water system's water-use restrictions.*



Irrigation Systems

The goal of any irrigation system is to give plants a sufficient amount of water without wasting any. You can effectively achieve water conservation in your landscape using underground sprinkler, hose-end sprinkler, or drip irrigation systems.

To make sure your underground or drip irrigation system works properly and conserves water, discuss your landscaping needs and plans with a licensed irrigator. You can design and install your own landscape irrigation system but it must meet required state and local design standards. You may also hire a licensed irrigator to install a system for you. To locate a licensed irrigator in Texas, visit www2.tceq.texas.gov/lic_dpa/.

Please note that all built-in irrigation systems are required to be connected using an approved backflow-prevention method.

Spray systems can consist of "hose-end" sprinklers that you can set up and move around the yard, or can be built-in irrigation systems. Your area may have specific requirements for built-in irrigation systems, including obtaining

Rainwater Harvesting

Rainwater harvesting can offer you another effective way to conserve water in your yard. An easy way to begin harvesting rainwater is by directing a gutter downspout into a barrel and using the collected water in gardens or on potted plants. Rainwater is free, and it's better for your plants than treated water, because it does not contain hard minerals.

For more information, see the publications *Rainwater Harvesting with Rain Barrels: A "Take Care of Texas" Guide* (GI-383) www.tceq.texas.gov/goto/gi-383 and *Rainwater Harvesting* (GI-404, reprinted courtesy of the Texas A&M AgriLife Extension Service) www.tceq.texas.gov/goto/gi-404.

a permit for the system and installing the appropriate backflow-prevention assembly.

Make sure that the hose-end sprinkler heads are adjusted so as to avoid watering sidewalks and driveways or other hard surfaces. A hose-end sprinkler head should spray large droplets of water instead of a fog of fine mist, which wastes water by evaporation and wind drift. Set a timer, so that you remember to turn off the hose-end sprinkler.

When used properly, built-in automatic sprinkler systems can help you water effectively. Many underground irrigation systems use timed controllers

that turn off the system when a measured amount of water is used. Moisture sensors help prevent watering in the rain and are now required in most Texas counties. Check with your local water supplier to make sure your irrigation system meets the requirements that are in place for your area.

Built-in sprinkler systems require maintenance and adjustments. This can be done by you or a licensed irrigator or plumber.

Don't just set the built-in system in the spring and leave it on all season. Check your settings periodically to make sure that water is being applied properly, and make adjustments as needed. Many times, you can reduce the amount of time that your irrigation system is operating by 25 percent without affecting the health of your plants.

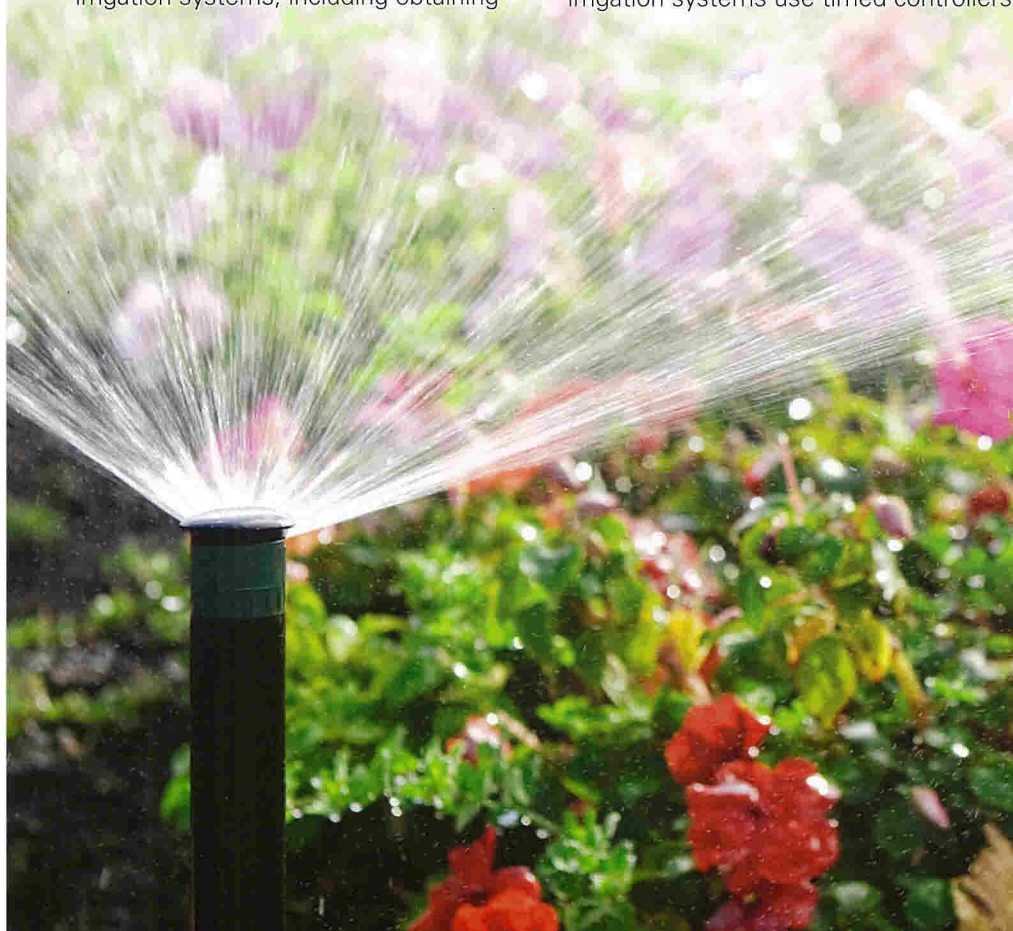
Check your sprinkler heads regularly. Remove any dirt or debris that may be clogging the nozzle and make sure that water is flowing at the proper pressure. Check for leaks, and repair them promptly.

Not all areas of your yard will necessarily have the same watering requirements. Some plants and trees may require less water than grass does; make sure you reduce the sprinkler run time for these areas.

For more information on irrigation systems, see *Landscape Irrigation: A Consumer's Guide to Landscape Irrigation in Texas* (TCEQ publication GI-390) www.tceq.texas.gov/goto/gi-390.

Drip Irrigation

Drip irrigation can offer a more efficient method of watering than a sprinkler can, particularly in small areas. Installation can be inexpensive and, with maintenance, a drip system can last as long as other irrigation systems. You can install



drip irrigation systems on or below the ground's surface, so consider the use and care of the area being irrigated. Consult a licensed irrigator to determine the appropriate type of drip irrigation system for your needs.

Drip irrigation applies water to the soil slowly. The water flows under low pressure through emitters, bubblers, or spray heads placed at intervals. Because drip irrigation systems distribute water slowly, the run time may be significantly longer than that for a traditional sprinkler system. However, there will be less evaporation and loss due to runoff.

There are many benefits to drip irrigation:

- With proper management, drip irrigation reduces water loss by 60 percent or more, compared with traditional watering methods. Because drip irrigation applies water just where it is needed, there is little chance of waste through evaporation or runoff.
- The soil moisture remains relatively constant.
- Water contact with the leaves, stems, and fruit of plants is minimized, preventing disease.
- Rows between plants remain dry, which reduces weed growth.
- Once installed, little labor is required to operate or maintain a drip irrigation system.

Operating a drip system is mostly a matter of deciding how often to turn it on and how long to leave it on. The object is to maintain adequate soil moisture without wasting water by applying too much.

- For newly seeded gardens, the system should run only a short time every day for a few days, to keep the surface soil from drying out.
- Plants loaded with fruit will need an inch of water every other day.

Use drip irrigation for watering vegetables, ornamental and fruit trees, shrubs, vines, and container-grown plants outdoors. Drip irrigation is not well suited for solid plantings of shallow-rooted plants such as grass and some ground covers.*

Soaker Hoses

Soaker hoses can offer an easier and cheaper alternative to drip irrigation. A soaker hose is a porous hose that you can connect to an outside faucet, garden hose, or rain barrel and lay out along the base of plants. This system works well with plants that are close together, like ornamental beds with clumped flowers or ground covers.

However, you should not use a soaker hose to irrigate plants, trees, or shrubs that are spaced far apart,

because the area between the plants will be excessively watered, which wastes water and could lead to weaker plants.

Cross-Connection Control and Backflow Prevention

To help maintain the quality of our drinking-water supplies, it is important that all Texas homeowners and landscapers help ensure the proper control of cross-connections and the prevention of possible backflow when using any irrigation system.

What is a cross connection?

A cross-connection is a physical connection between drinkable water and a liquid or gas that could make the water unsafe to drink.

What is backflow?

Backflow is water flowing against its intended direction, which can contaminate the water supply. Backflow can be caused by either a loss of pressure in the supply lines or an increase in pressure on the customer's side.

There are several ways that you can prevent backflow in your irrigation system:

- Make sure that the end of your garden hose is never submerged in water not suitable for drinking.
- Install a hose bibb vacuum breaker on each of your outside faucets. These inexpensive devices are available in most hardware stores and are designed to allow water to flow in only one direction.
- Schedule a licensed tester of backflow-prevention assemblies to perform a test to confirm that your backflow-prevention assembly is operating properly. Keep in mind that you must have the licensed tester examine all backflow-prevention assemblies upon installation.** Check with your water provider about more stringent regulations that may apply, which could require annual testing of backflow prevention assemblies.



* Always comply with your water system's water-use restrictions.

** Property owners who are not connected to a public water system, such as those using only their own well, may be exempt from this requirement.

For More Information

If you are thinking about installing your own irrigation system or would like to know more about the requirements for irrigation systems and licensed landscape irrigators, the rules explaining those requirements can be found in Title 30, Texas Administrative Code, Chapter 344.

The TCEQ's *Landscape Irrigation Program: Implementation* (RG-466) <www.tceq.texas.gov/goto/rg-466> explains the new rules (effective Jan. 1, 2009) relating to landscape irrigation for both licensed professionals and customers.

The Environmental Protection Agency's *Cross-Connection Control Manual* <water.epa.gov/infrastructure/drinkingwater/pws/crossconnectioncontrol/crossconnectioncontrol_manual.cfm> offers information on cross-connection controls and methods of backflow prevention.

Always contact your local water supplier before planning or installing an irrigation system to ensure that you comply with any requirements.

Landscape Irrigation complements the "Take Care of Texas" *Guide to Yard Care*, which is meant to be a general overview of ways you can help take care of Texas in your own yard. For more detailed information, see the following other TCEQ "Take Care of Texas" guides at <TakeCareOfTexas.org/news-publications/publications>:

- *The "Take Care of Texas" Guide to Yard Care* (GI-28)
- *Mulching and Composting* (GI-36)
- *Rainwater Harvesting with Rain Barrels* (GI-383)
- *Managing 10 Common Texas Yard Pests* (GI-405)
- *Managing Lawn Problems in Texas* (GI-407)

Additional Resources

General Information

Texas Commission on Environmental Quality
www.tceq.texas.gov

Texas Water Development Board
www.twdb.texas.gov

Texas A&M AgriLife Extension Service
agrillifeextension.tamu.edu

Yard Care


Texas A&M AgriLife Extension, EarthKind
earthkind.tamu.edu

For more information, contact:

Pollution Prevention and Education, MC 108
Texas Commission on Environmental Quality
PO Box 13087
Austin TX 78711-3087
512-239-3143
www.tceq.texas.gov

How is our customer service? www.tceq.texas.gov/customersurvey

The TCEQ is an equal opportunity employer. The agency does not allow discrimination on the basis of race, color, religion, national origin, sex, disability, age, sexual orientation or veteran status. In compliance with the Americans with Disabilities Act, this document may be requested in alternate formats by contacting the TCEQ at 512-239-0028, Fax 512-239-4488, or 800-RELAY-TX (TDD), or by writing P.O. Box 13087, Austin, TX 78711-3087.

 Printed on recycled paper using vegetable-based ink.

Managing Lawn Problems in Texas

A "TAKE CARE OF TEXAS" GUIDE

Choose Your Landscape

When choosing a landscape for your yard, it is important to consider not only what you want your yard to look like, but the amount of resources and time necessary to maintain it. Lawn alternatives, such as drought tolerant native plants, can save water and energy as well as time and money by requiring little maintenance. For more information on selecting a landscape, visit <earthkind.tamu.edu>.

If you decide to have a lawn, consider planting a less extensive grass landscape and choose a turf that is right for your region and environment.

Choose Your Turf

When properly maintained, turfgrass can have a positive impact on the environment. Turfgrass that is actively

growing can be beneficial to your yard and the environment by helping to:

- stabilize soil;
- conserve water;
- filter air- and water-borne pollutants;
- suppress and control dust, glare, and noise; and
- dissipate heat.

Choosing the right type of turfgrass is an important first step in maintaining a healthy lawn. The most commonly used grasses in Texas are St. Augustine, Bermuda, buffalo, centipede, tall fescue, and zoysia, which are generally compatible with the state's diverse climate conditions. When choosing what type of grass to use, keep in mind its tolerance to shade, drought, traffic, cold, salinity, and disease. Properly adapted turfgrass will require less maintenance

and smaller amounts of fertilizer and supplemental water.

For more information on selecting grasses, visit Aggie Turf, at <aggieturf.tamu.edu>.

Maintain Your Lawn

Maintaining a healthy turf will help you avoid many common lawn problems, as well as the need for many pesticides—including insecticides, herbicides, and fungicides. The following tips will help you keep your lawn healthy and beautiful:

- Choose the correct turf for your light conditions and lawn use.
- Establish an adequate depth of healthy soil (at least 6 inches under your turf).
- Aerate your lawn once a year to improve drainage and reduce soil compaction.
- Irrigate efficiently, making sure to:
 - » water in the morning, before 10 a.m.,*
 - » wet the soil to a depth of 4–6 inches, and
 - » allow the soil to dry out between watering.
- Mow properly, taking no more than one-third of the grass blade off with each mowing.
- Be careful not to overfertilize, which can weaken turf, as well as contribute to water pollution by causing excess nutrients to be released into rainfall runoff. Choose natural or organic fertilizers, such as compost, which typically slow-release their nutrients and can often be used in smaller amounts.
- Test your soil periodically to determine which nutrients are lacking, before you decide whether or not to fertilize.

*Always comply with your water system's water-use restrictions.



Common Lawn Problems

Fungal Diseases



Take-All Patch

Take-all patch first appears as a yellowing of the grass and a darkening of the grass roots, followed by a thinning of the turf in irregular shapes. The darkening of the roots indicates rotting, and the roots can rot so extensively that the grass can be easily pulled up.

Infestation and Attack

Take-all patch most commonly affects St. Augustine, zoysia, and Bermuda grasses, and can rot roots so badly that it eventually kills the entire lawn. It spreads mainly during the fall, winter, and spring, when there is more moisture and cool or mild temperatures. However, the symptoms generally do not appear until the hot, stressful days of summer.

Prevention and Solutions

- Maintain good drainage in your lawn area.
- Avoid overfertilization of turf areas, as excessive nitrogen seems to promote take-all patch.
- Raise the mowing height on your mower to reduce stress to your turf.
- Avoid the use of broadleaf herbicides, which may weaken your turf.
- Avoid urea-based fertilizers.



Brown Patch

Brown patch first causes circular patterns of dead grass blades; in two to three weeks, new leaves may emerge in the center of the circular patch, giving diseased areas a donut-shaped appearance. The affected grass turns brown and grass blades rot and break off from the runners.

Infestation and Attack

Brown patch most commonly attacks St. Augustine grass and can spread in an area of 1 to 50 square feet. It occurs in late fall through early spring and is promoted by wet weather or frequent irrigation.

Prevention and Solutions

- Avoid overfertilization or overwatering of your lawn.
- Aerate your lawn once a year.
- At the first sign of the disease, apply a fungicide to the affected area.

Lawn Stresses



Shade Stress

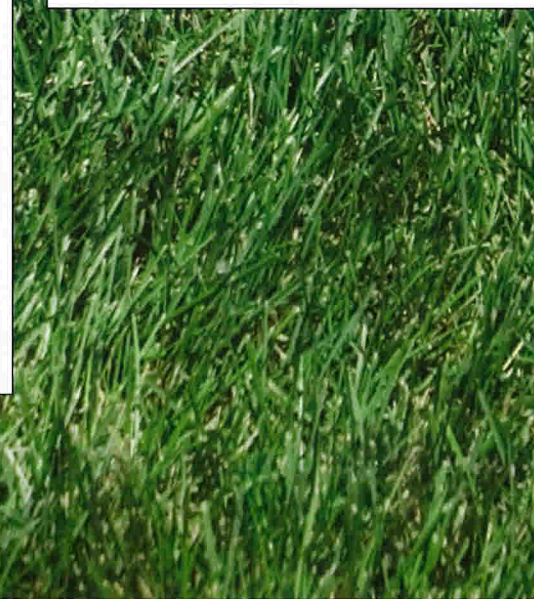
Turf grass that is affected by shade stress (lack of sunlight) thins and disappears, leaving bare patches of soil and/or areas of weeds.

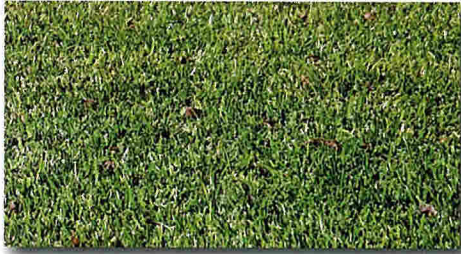
Infestation and Attack

Buffalo and Bermuda grasses do not grow well in shaded areas—these grasses are the most susceptible to shade stress.

Prevention and Solutions

- For planting in shady areas, choose shade-tolerant groundcovers or shade-tolerant turf grasses (such as St. Augustine or zoysia).
- Thin out tree branches a bit to “brighten” shady areas.
- Raise the mowing height on your mower to allow more grass blade to capture sunlight.





Iron Chlorosis

Iron Chlorosis causes the blades of the grass to develop green and yellow stripes, or to turn completely yellow. It occurs in alkaline (high pH) soils with high phosphorus levels, and under cool and wet soil conditions.

Infestation and Attack

St. Augustine grass is most susceptible to Iron Chlorosis.

Prevention and Solutions

- Do not use fertilizers that are high in phosphorus.
- Topdress your turf with 1/4- to 1/3-inch of compost.
- Aerate your lawn once a year.
- For temporary relief, try adding iron supplements to your lawn.



Drought Stress

Grass affected by drought stress looks blue-green or silverish, and individual blades curl. Footprints remain in the lawn after you step on it. The soil under the lawn is dry.

Tolerance to Drought

All turf can survive some drought stress, although some types of turf require less water than others.

- *St. Augustine*: drought tolerant in shade only
- *Bermuda*, *zoysia*: drought tolerant
- *Buffalo*: very drought tolerant

Prevention and Solutions

- Choose drought-tolerant turf grass.
- Irrigate efficiently.
- For sloped areas, consider alternatives to turf.

Weeds

The two most common types of weeds are:

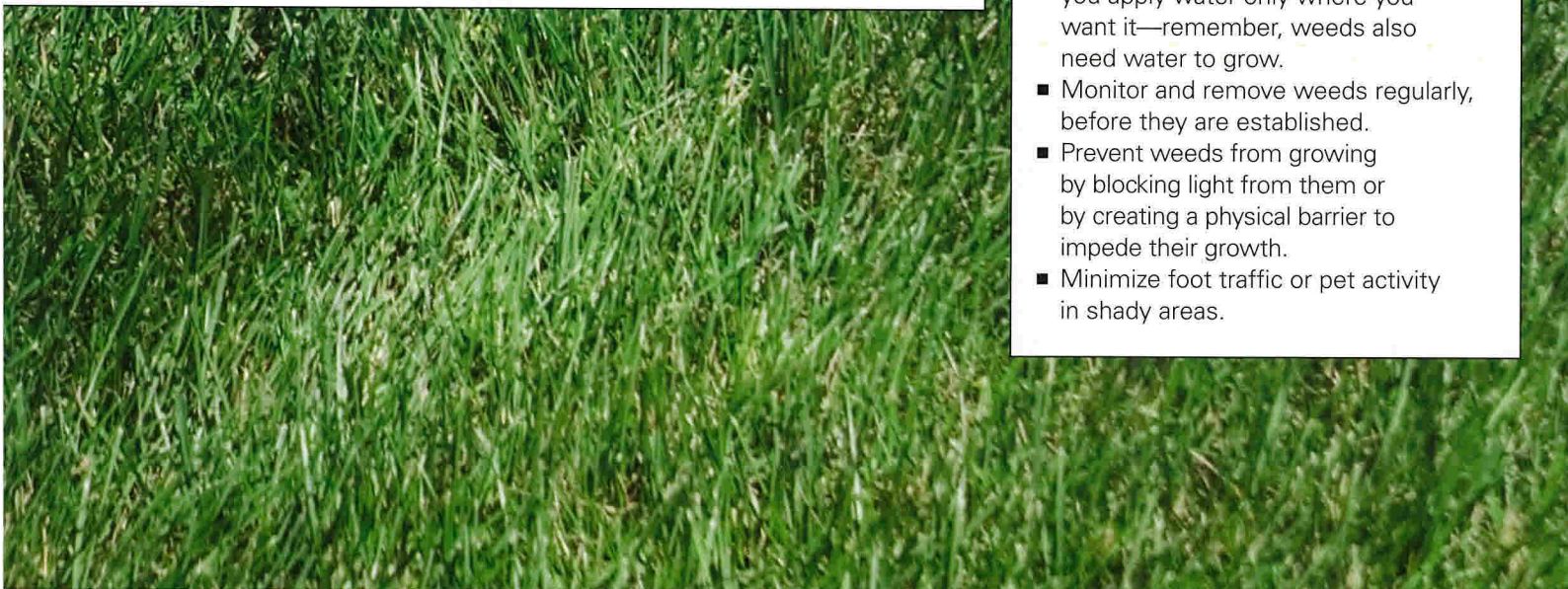
- *Grassy*. Grassy weeds have jointed, hollow stems. Their leaf blades have veins parallel to the margins and are several times longer than they are wide. Their roots are fibrous and multi-branching and their flowers are usually inconspicuous.
- *Broadleaf*. Broadleaf weeds often have showy flowers. Their leaves have a network of veins at diverse angles to one another. Their stems are often pithy and they usually have a taproot.

Infestation and Attack

Weeds are often the result of poor-quality turf, rather than being the cause of it. Weeds are aggressive and reproduce quickly, enabling them to invade areas of thin, weak turf.

Prevention and Solutions

- Keep plants healthy—this will help them outcompete weeds.
- Do not let weeds flower or go to seed—this will greatly increase their potential population.
- Do not bring soil with weed seeds or weed roots on-site.
- Use drip irrigation in beds so that you apply water only where you want it—remember, weeds also need water to grow.
- Monitor and remove weeds regularly, before they are established.
- Prevent weeds from growing by blocking light from them or by creating a physical barrier to impede their growth.
- Minimize foot traffic or pet activity in shady areas.



FREQUENTLY ASKED QUESTIONS



TEST YOUR SOIL

Grass and other plants can be weak and unhealthy for a variety of reasons, including over-application of fertilizer. The best and only sure way to know if the soil in your yard lacks sufficient nutrients is to get a soil test from a qualified soil lab. A soil test can tell you just what your soil needs, and how much of it.

A basic soil test covers soil hydrogen ion concentration (pH or acidity/alkalinity) and the primary nutrients: nitrogen, phosphorus, and potassium (NPK). For an additional fee, you can request testing for micronutrients, organic matter, and soil texture. Your county Texas A&M AgriLife Extension agent can help you get an inexpensive soil test, go over the results with you, and advise you on the best subsequent course of action. For information on your local Texas A&M AgriLife Extension office, visit <agrilifeextension.tamu.edu>.

If you do encounter a problem in your lawn, try solving it using natural, non-invasive methods.

What can I do to make sure my soil is healthy?

A soil test is the best way to find out which nutrients your soil lacks. Contact your local Texas A&M AgriLife Extension office for assistance in obtaining a test.

In most cases, compost is the best soil additive you can use. Compost contains micronutrients—such as iron and manganese—that are often absent in synthetic fertilizers. Compost also balances both acidic and alkaline soils, bringing pH levels into the optimum range for nutrient availability.

For more information, see *Mulching and Composting: A "Take Care of Texas" Guide* (GI-36) <TakeCareOfTexas.org/publications>.

Is it okay to use some pesticides?

Synthetic chemical pesticides can be effective at wiping out pests, but rarely provide long-term solutions, and may create additional problems by wiping out beneficial plants and animals along with the pests. Ensuring that your lawn and soil are healthy, as well as using native and adapted plants, will help you reduce the need for pesticides.

If you decide to use pesticides:

- Look for the least-toxic products that will do the job, and make sure they target the particular pest you're facing.
- Read the label first, including all precautions and restrictions, and then follow the directions carefully.

How frequently should I fertilize my yard?

The best times to apply fertilizer, if it's needed, are at the beginning and end of the growing season, which will vary according to the temperature range in your region. To prevent runoff, do not overwater after applying fertilizer and avoid fertilizing just before a rainstorm.

What are some tips for mowing?

- Avoid cutting grass too short. Mow often enough that each mowing removes no more than one-third of the grass blade. For example, if you set your cutting height at 2 inches, then cut before the grass is more than 3 inches tall.
- Keep your mower's blades sharp and clean, and mow when the grass is dry.
- Mow over leaves, so that they will decompose along with the grass clippings.
- Consider using mulching blades/kits to shred clippings and leaves as you mow.
- Consider use of more efficient equipment to help keep our air clean. Hand tools, such as push reel mowers, are lightweight, quiet, and easy to use and do not generate emissions.

Managing Lawn Problems in Texas complements the "Take Care of Texas" *Guide to Yard Care*, which is meant to be a general overview of ways you can help Take Care of Texas in your own yard. For more detailed information, see the following other TCEQ "Take Care of Texas" guides at <TakeCareOfTexas.org/publications>:

- *The "Take Care of Texas" Guide to Yard Care* (GI-28)
- *Mulching and Composting* (GI-36)
- *Rainwater Harvesting with Rain Barrels* (GI-383)
- *Managing 10 Common Texas Yard Pests* (GI-405)
- *Landscape Irrigation* (GI-409)

How is our customer service? www.tceq.texas.gov/customersurvey

The TCEQ is an equal opportunity employer. The agency does not allow discrimination on the basis of race, color, religion, national origin, sex, disability, age, sexual orientation or veteran status. In compliance with the Americans with Disabilities Act, this document may be requested in alternate formats by contacting the TCEQ at 512-239-0028, Fax 512-239-4488, or 800-RELAY-TX (TDD), or by writing P.O. Box 13087, Austin, TX 78711-3087.

♻️ Printed on recycled paper using vegetable-based ink.

Be Water Wise at Home



Turn off the water while you brush your teeth and save up to 4 gallons a minute. That's up to 200 gallons a week for a family of four.

Plug the sink instead of running the water to rinse your razor and save up to 300 gallons a month.



A faucet leaking at a rate of one drop per second can waste up to 3,000 gallons of water a year.



Reducing a 10-minute shower to 5 minutes will save 12.5 gallons of water in each occasion.



Install more efficient appliances and plumbing fixtures. A water-efficient showerhead can reduce water use by 25 to 60 percent, saving up to \$145 a year.



4,000 gallons

Water-efficient toilets save up to 4,000 gallons of water a year.

If your toilet flapper doesn't close properly after flushing, replace it.

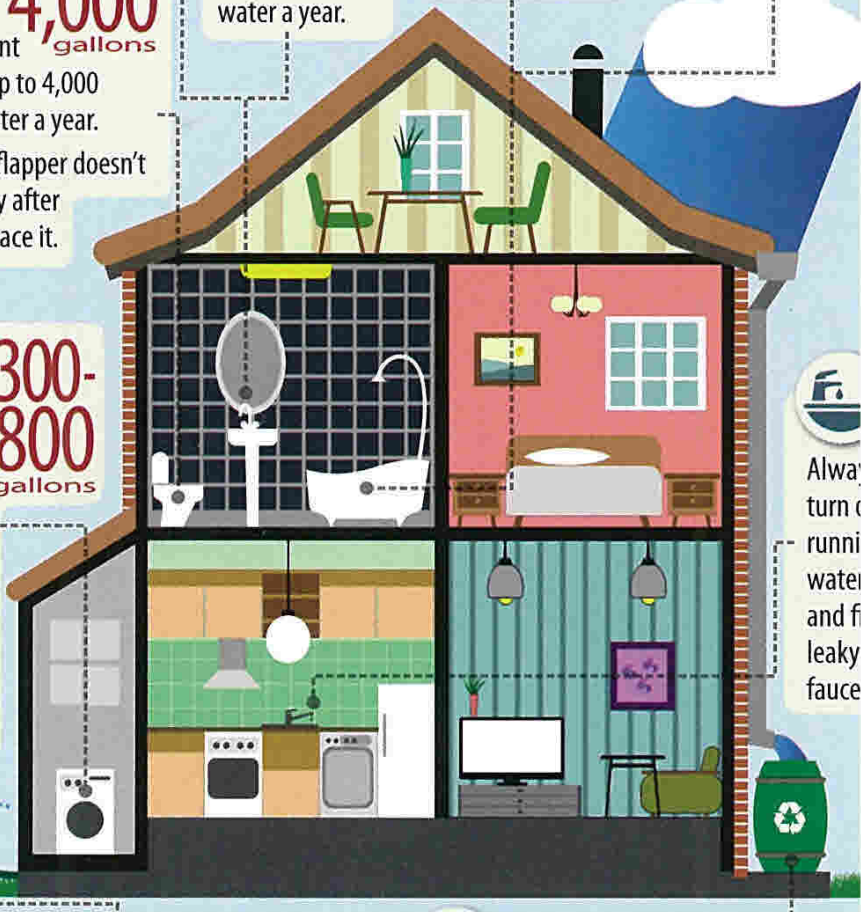


300-800 gallons

Save 300-800 gallons of water a month by washing dishes and laundry only when the machine is full.



Always turn off running water and fix leaky faucets.



Sea Prudente con el Agua en Casa



Cierre la llave mientras se cepille los dientes y ahorre hasta 4 galones por minuto. Eso es hasta 200 galones por semana en el caso de una familia de 4 personas.

Apague el lavabo en lugar de dejar que corra el agua para enjuagar su rastrillo y ahorre hasta 300 galones al mes.



Los inodoros modernos y eficientes en agua ahorran hasta 4,000 galones de agua al año.

Si el sello, o sapo, de su inodoro no cierra bien después de la descarga, cámbielo.



Ahorre de 300 a 800 galones de agua al mes lavando platos y ropa sólo cuando la máquina esté llena.

300-800
galones



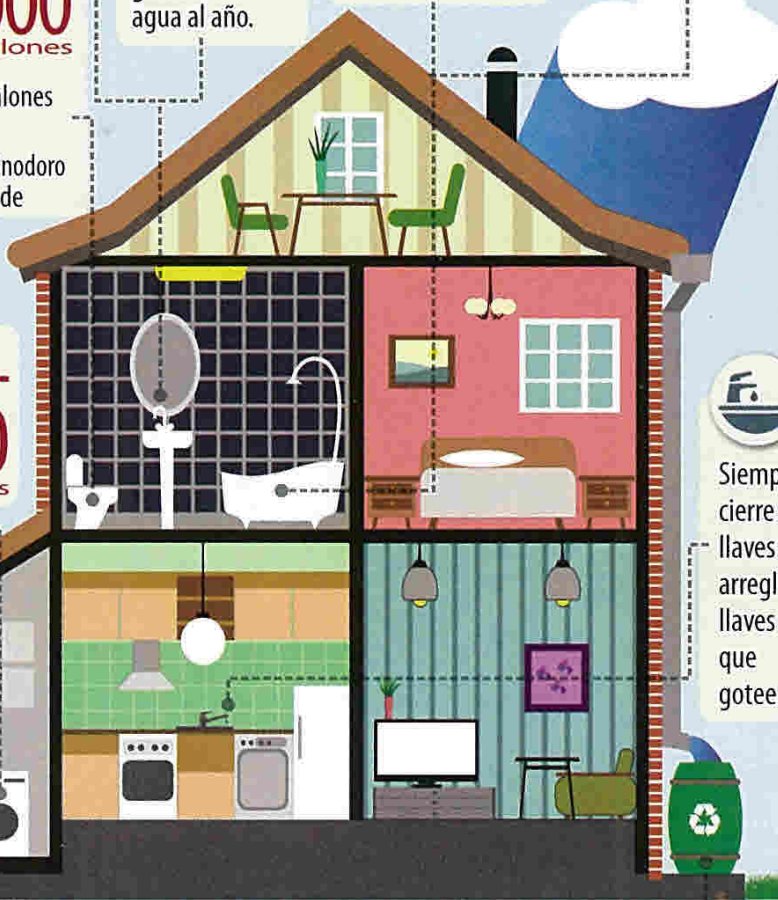
Una llave que gotea a razón de una gota por segundo puede desperdiciar hasta 3,000 galones de agua al año.



Reducir una ducha de 10 minutos a 5 minutos ahorrará 12.5 galones de agua en cada ocasión.



Instale electrodomésticos y dispositivos de plomería más eficiente. Un cabezal de regadera eficiente e agua puede reducir uso de agua en 25 a 60 por ciento, ahorrando hasta \$145 al año.



Siempre cierre llaves arregle llaves que goteen



Ahorrar agua ahorra dinero.

Pruebe estas sencillas sugerencias que le ayudarán a conservar agua y a ahorrar dinero en su cuenta también.

Riegue prudentemente.

El riego del pasto y el jardín forma el 40% del uso total de agua en el hogar. Riegue su jardín a fondo, pero sólo según sea necesario: por lo general no más de una pulgada, una vez por semana.* Considere usar riego por goteo para plantas y jardines, y riegue temprano por la mañana para minimizar la evaporación.

Revise las llaves y los inodoros para ver si tienen goteras.

Una llave que gotea puede desperdiciar hasta 3,000 galones de agua al año. Las tazas que gotean: hasta 73,000 galones de agua al año.

Instale artefactos de plomería que usen agua eficientemente y aireadores para las llaves.

Artefactos de plomería que usen agua eficientemente pueden reducir el consumo de agua entre 25 y 60%. Instalar aireadores reducirá por la mitad la cantidad de agua usada por cada llave.

La Comisión de Calidad Ambiental de Texas (TCEQ, por el nombre en inglés) es un empleador con igualdad de oportunidades. La agencia tiene prohibido la discriminación por motivos de raza, color de piel, religión, origen nacional, sexo, discapacidad, edad, orientación sexual o condición de veterano.

Lave cargas completas de ropa.

Lavando sólo cargas completas de ropa puede ahorrar hasta 3,400 galones de agua al año. ¿Necesita una nueva lavadora? Invierta en un modelo calificado como Energy Star, que típicamente usa 50% menos agua y 37% menos energía.

Pruebe plantas nativas en su paisaje y use agua de lluvia captada.

Plantas nativas típicamente requieren menores cantidades de agua, pesticidas, fertilizantes y mantenimiento. Recolectar agua de lluvia para usar en el jardín no sólo es buenísimo para las plantas, sino que también le puede ahorrar agua y dinero.

¿Cómo cuida usted a Texas?


Visite GuideaTexas.org para más sugerencias sobre la conservación del agua y otras maneras de hacer su parte. ¡Entre al internet y comprométase a Cuidar a Texas!

*Siempre cumpla con las restricciones sobre el uso de agua de su departamento de servicio de agua.

GuideaTexas.org

¿Cómo le parece nuestro servicio al cliente?

www.tceq.texas.gov/encuesta

 Impreso en papel reciclado
usando tinta vegetal.



Saving Water Saves Money.

Try these simple tips to help you conserve water and save money on your bill, too.

Water Wisely.

Lawn and garden watering make up as much as 40% of total household water use. Water your yard thoroughly, but only as needed—usually no more than 1 inch, once a week.* Consider using drip irrigation for plants and gardens, and water early in the morning to minimize evaporation.

Check Faucets and Toilets for Leaks.

A leaky faucet can waste up to 3,000 gallons of water per year. Toilet leaks: up to 73,000 gallons a year.

Install Water-Efficient Plumbing Fixtures and Faucet Aerators.

Water-efficient plumbing fixtures can reduce water consumption by 25% to 60%. Installing aerators will cut in half the amount of water used by each faucet.

The Texas Commission on Environmental Quality is an equal opportunity employer. The agency does not allow discrimination on the basis of race, color, religion, national origin, sex, disability, age, sexual orientation, or veteran status.

Wash Full Loads of Laundry.

Washing only full loads of laundry can save up to 3,400 gallons of water each year. Need a new clothes washer? Invest in an Energy Star-qualified model, which typically uses 50% less water and 37% less energy per load.

Try a Native Landscape and Use Collected Rainwater.

Plants that are native to Texas typically require lesser amounts of water, pesticides, fertilizers, and maintenance. Collecting rainwater for landscape use is not only great for the plants, but can save you water and money.

How Do You Take Care of Texas?

Visit TakeCareOfTexas.org for more water-conservation tips and other ways to do your part. Go online and pledge to Take Care of Texas!

**Always comply with your water system's water-use restrictions.*

Take Care of Texas.org

How is our customer service? www.tceq.texas.gov/customerurvey



61-400 (Revised 6/13)



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Public Education, Outreach, & Involvement**

BMP Title: **Park Cleanup**

Responsible Department: Public Works

Measurable Goal: Year 2 – Advertise the cleanup at least once on the City’s website. Coordinate at least once annual cleanup event.

1. Was the measurable goal accomplished for this permit year? Yes No
(a) If so, explain what was done to accomplish the measurable goal.

(b) If not, why was the measurable goal not accomplished?

Unfortunately, due to COVID all City events were canceled to reduce the spread of the virus. The City will try to coordinate another cleanup for Year 3.

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No
3. Was this BMP considered to be successful? Yes No
(a) Please explain.

The BMP is considered unsuccessful. City events were canceled due to COVID. Keeping the City’s streams and channels clear from trash and debris lead to better water quality.

4. Are any changes to this BMP recommended for the next permit term? Yes No
(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Public Education, Outreach, & Involvement**

BMP Title: ***Pet Waste Management***

Responsible Department: Public Works

Measurable Goal: Year 2 – Provide educational material about pet waste at 1 City events annually.

1. Was the measurable goal accomplished for this permit year? Yes No
(a) If so, explain what was done to accomplish the measurable goal.

(b) If not, why was the measurable goal not accomplished?

The BMP was partially completed. The City continues to provide educational flyer at City Hall about proper pet waste disposal and the harmful effects pet waste has in waterbodies. However, the City was unable to distribute educational material to City events due to COVID.

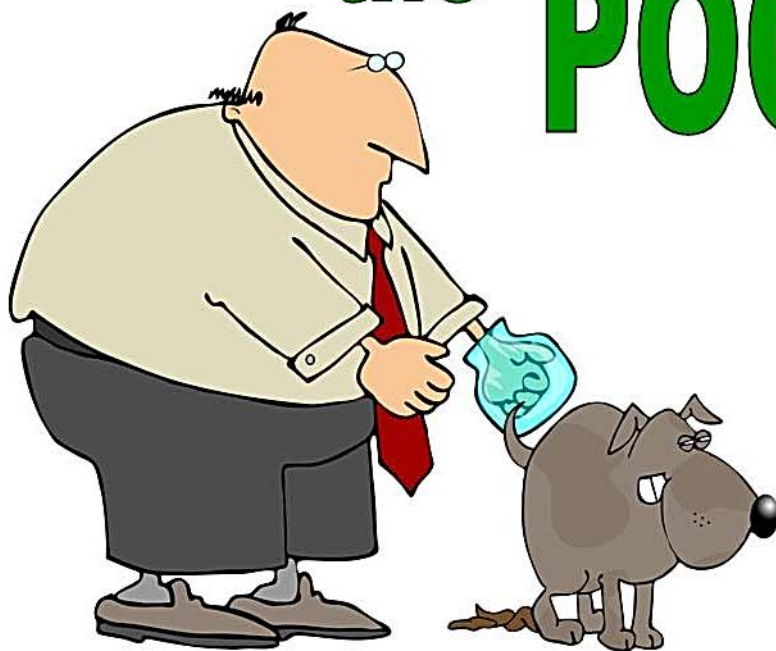
2. Was this BMP appropriate to meet the intended MCM(s)? Yes No
3. Was this BMP considered to be successful? Yes No
(a) Please explain.

The BMP is partially successful because educational material is provided at City Hall, but not distributed at City events. The City understands the importance of educating the public about how pet waste impacts stormwater quality.

4. Are any changes to this BMP recommended for the next permit term? Yes No
(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No

SCOOP the POOP



Always use a bag or scooper to clean up your pet's waste.



Poop left on the ground washes into local streams, lakes & rivers.



Dog droppings are a leading cause of E.coli pollution in local waters.

Do your part: Scoop the Poop to keep our water clean!



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Public Education, Outreach, & Involvement**

BMP Title: ***Storm Drain Marking***

Responsible Department: Public Works

Measurable Goal: Year 2 – Annually inspect 20% of marked inlets. Perform any maintenance if necessary.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

The City has inspected 20% (4) of marked inlets. Marking is still visible.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

(a) Please explain.

Marking storm drains is a great way to deter residents or commercial businesses from dumping waste or pollutants. Storm drain message reminds residents the storm drain goes straight to the creek, not a wastewater treatment plant.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Public Education, Outreach, & Involvement**

BMP Title: **Youth Education**

Responsible Department: Public Works

Measurable Goal: Year 2 – A minimum of 20% of all schools will be educated every year on stormwater pollution by providing local schools in the City with materials, including brochures, coloring books, and other media.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

(b) If not, why was the measurable goal not accomplished?

The City did not distribute educational material because schools were either closed or has limited contact due to COVID. Educational material will be distributed in Year 3.

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

(a) Please explain.

The City understands providing stormwater education for youth audiences is an important part of the stormwater program. The more people that are educated, the more likely a reduction in pollutants in stormwater will occur.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Public Education, Outreach, & Involvement**

BMP Title: **SWMP Annual Review**

Responsible Department: Public Works

Measurable Goal: Year 2 – Annually review SWMP to ensure compliance.

1. Was the measurable goal accomplished for this permit year? Yes No
(a) If so, explain what was done to accomplish the measurable goal.

The City of Everman reviewed the Stormwater Management Program along with the current BMPs. No revisions were deemed necessary.

- (b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No
3. Was this BMP considered to be successful? Yes No
(a) Please explain.

It is important to review the SWMP annually to ensure BMPs are clear, specific, and measurable.

4. Are any changes to this BMP recommended for the next permit term? Yes No
(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Illicit Discharge Detection and Elimination**

BMP Title: **Illicit Discharge Ordinance**

Responsible Department: Public Works

Measurable Goal: Year 2 – Conduct 100% of illicit discharge inspections. Investigate 100% of illicit discharges reported.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

The City continues to enforce the illicit discharge ordinance. There was 1 violation of illegal dumping reported in Year 2. A citation was issued, and debris was removed for the creek.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

(a) Please explain.

Having an ordinance to enforce illicit discharges is an important aspect of the stormwater management program. It allows the City to act on potentially harmful impacts to water quality.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No

Erica Ramirez

From: Jeff Reed <jreed@evermantx.net>
Sent: Thursday, March 11, 2021 8:06 AM
To: Erica Ramirez
Subject: [EXTERNAL EMAIL] RE: Year 2 Annual Report

Hi erica,

We are monitoring our marked inlets.
We have an illicit discharge into our creek which citations were issued.
The violator removed the items from the creek
Our Ordinance governing storm water management is still in compliance
Training of new employees has not been performed as of yet.
I will distribute brochures to 20% of our schools today.



From: Erica Ramirez <eramirez@tnpinc.com>
Sent: Wednesday, March 10, 2021 9:06 AM
To: Lisa Minnis (lminnis@evermantx.net) <lminnis@evermantx.net>; Jeff Reed (jreed@evermantx.net) <jreed@evermantx.net>
Subject: Year 2 Annual Report

Good Morning Lisa and Jeff,
Its that time again! I have attached the checklist for Year 2. Please let me know if COVID prevented the City from performing any of the BMPs. I will make note of it in the report.

Thanks,
Erica



Erica Ramirez, CFM
Civil Engineer

 817.336.5773 main | 817.665.7154 direct
 5237 N. Riverside Drive, Suite 100 | Fort Worth, TX 76137

eramirez@tnpinc.com
www.tnpinc.com



DISCLAIMER: The information contained in this Email message may be confidential or legally privileged. It is for the intended recipient(s) only. Should you receive this message in error, please notify the sender by replying to this message. Please do not read, copy, forward or store this message unless you are an intended recipient. Unless expressly stated, opinions in this message are those of the individual sender and not of TNP. WARNING: Computer viruses can be transmitted via Email. Although TNP has taken reasonable precautions to ensure no viruses are present, TNP cannot accept responsibility for any loss or damage arising from the use of this Email message or attachments.



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Illicit Discharge Detection and Elimination**

BMP Title: **Storm Drainage Outfall Map**

Responsible Department: Public Works

Measurable Goal: Year 2 – Annually update the map to include any new outfall from development or redevelopment

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

The City mapped 100% of the outfalls. The City annually review and update the outfall map include any outfalls from development or redevelopment.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

(a) Please explain.

The storm drainage outfall map is vital to the success of the illicit discharge detection and elimination program. The map is used to track the location of upstream pollutant discharges when performing the dry weather field inspections.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Illicit Discharge Detection and Elimination**

BMP Title: ***Education and Training on Illicit Discharges***

Responsible Department: Public Works

Measurable Goal: Year 2 – Provide annual IDDE training at least once a year for designated City staff and new hires.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

A City employee attended a 7-hour NCTCOG training on February 26, 2020.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

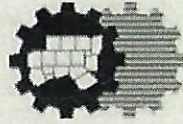
(a) Please explain.

The City understands educating and training the staff on illicit discharges is important because it identifies any possible illicit discharges and how to resolve them. Reporting and acting when discharges happen can result in minimizing pollution to lakes and streams.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



North Central Texas Council of Governments
Training & Development Institute

Be it known that on Wednesday, February 26, 2020

Floyd Reed

Has successfully completed the required curriculum for

Stormwater Pollution Prevention Practices During Construction

Executive Director

Deputy Executive Director

Hours: 7



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Illicit Discharge Detection and Elimination**

BMP Title: **Public Reporting & Response Procedures**

Responsible Department: Public Works

Measurable Goal: Year 2 – Investigate 100% of illicit discharges reported.

1. Was the measurable goal accomplished for this permit year? Yes No
- (a) If so, explain what was done to accomplish the measurable goal.

The City has a posted number for residents and businesses to report illegal dumping and illicit discharges on the City website. This year, no reports were received, but the City encourages residents to report any type of illicit discharge.

- (b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No
3. Was this BMP considered to be successful? Yes No
- (a) Please explain.

Allowing the public to be part of a reporting system helps target and address illicit discharges in a timely manner. City staff alone, is not large enough to be monitoring all waterways at all times.

4. Are any changes to this BMP recommended for the next permit term? Yes No
- (a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No

Public Reporting and Response Procedures

The screenshot shows a web browser window with the address bar displaying "www.evermantx.net/publicworks/". The page header features the "CITY OF EVERMAN, TEXAS" logo and a navigation menu with links for Home, Government, Departments, Everman Info, Employment, and Contacts. A left sidebar contains links for Code Enforcement, Parks, and Public Works. The main content area is titled "Public Works!!!" and includes the following sections:

- "It's your Water"**: A notice asking residents to report illegal dumping by contacting Code Enforcement at (817) 293-0525 during normal working hours (Monday through Friday, excluding holidays) or the Police Department at (817) 293-2923 after hours.
- In The Bathroom**: A list of water-saving tips:
 - Install a low-flow shower head that restricts the flow from the shower to under 3.0 gallons per minute.
 - Test toilets for leaks. Add a few drops of food coloring or a dye tablet to the water tank, but do not flush! Watch to see if the coloring appears in the bowl in a few minutes. If it does, the toilet has a silent leak that needs to be repaired.
- In The Kitchen**: A list of water-saving tips:
 - Never run the dishwasher without a full load. This practice will save water, energy, detergent and money.
 - Use a small pan of cold water when washing vegetables rather than letting the water run over them.
- For Outdoor Use**: A list of water-saving tips:
 - Water lawns early in the morning during the hotter summer months. Otherwise, much of the water used on the lawn can simply evaporate between the sprinkler and the grass.
 - Learn to know when grass needs watering. If it has turned a dull grey-green or if footprints remain visible, it's time to water.
- Park Rules**: A list of rules:
 - No alcoholic beverages.
 - No dumping of trash.
 - No vehicles except where designated.
 - Pets must be on a leash.
- Pavilion Rules**: A list of rules:
 - The Pavilion is an alcohol free facility. Your event will be shut down immediately if anyone is caught using alcohol either in the pavilion or on the surrounding city property.
 - No vehicles allowed on grass areas.
 - Please use care when moving tables. Do not move the tables off of the concrete area. Do not allow sitting or standing on the tabletops. Do not deface the tables or any of the property with graffiti.
 - Cleaning: Please leave the facility clean. Clean up any spills and trash and place in provided containers.
 - Please don't allow any glass containers around the playground or the courts.
 - When setting up, please notify City Hall or the Police Department immediately if there is any damage, graffiti or problems so you will not be held accountable for said

Two images are included: one showing a river or stream flowing through a green landscape, and another showing a large outdoor pavilion structure with picnic tables underneath.



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Illicit Discharge Detection and Elimination**

BMP Title: **Source Investigation and Elimination**

Responsible Department: Public Works

Measurable Goal: Year 2 – Conduct 100% of illicit discharge inspections. Investigate 100% of illicit discharges reported.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

The City inspected 100% (1) of illicit discharges inspections and illicit discharges reported. The City address the illicit discharges in a timely manner.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

(a) Please explain.

It is important for residents to be informed on how to respond to a spill or an illicit discharge. Reporting and acting when discharges happed can result in minimizing pollution to lakes and streams.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No

SOP FOR ILLICIT DISCHARGE A ILLEGAL DUMPING

Record name, phone number, and address of complainant, if available.

Try to arrive at area and inspect the site while the illicit discharge or illegal dumping is taking place.

Determine the type of discharge. (Never approach what appears to be a toxic discharge. Contact proper agency for this type of discharge and removal.)

Take a photo of the location.

Leave written notice of violation with person responsible for discharge or dumping, a summons to the municipal court may be due to a repeat offender.

Require immediate removal of discharge/dumping. This may include assisting the offender with contacting property owner, an illicit discharge/ dumping removal company, city contractors and/or other enforcement agencies.

Take photo of the area after discharge/ dumping has been removed

Educate the violators on the importance of how maintaining a clean environment helps watersheds stay healthy and keeps the cost of clean drinking water down.

If arriving on the site after the violator has gone, contact the owner of the property and advised them of the situation. (Never approach any toxic waste. contact proper agency for this type of discharge and removal)

Take photo of before and after the removal.

Give written notice of offense to property owner allowing a time frame to remove illegal dumping.

Encourage the property owner to post "No Dumping. Violators Will Be Prosecuted." signs at locations Known for illegal dumping.

Continue to monitor location in order to discourage future dumping.

If location of offense has occurred on city or public property, such as a roadway, right of way or city park, contact proper city department for removal. (Never approach any toxic material. Contact proper illicit discharge agency)



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Construction Site Stormwater Runoff Control**

BMP Title: **Erosion & Sediment Control Ordinance**

Responsible Department: Public Works

Measurable Goal: Year 2 – Inspect 100% of construction sites each year. Inspect 100% of complaints driven site each year.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

The City continues to enforce the construction erosion and sediment control ordinance. There has been no active construction of 1 acre or more in the City, and no reports were received.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

(a) Please explain.

It is important for the City to be able to enforce the requirements for erosion and sediment control on construction sites. Proper stormwater practices on construction sites reduces the amount of pollution from site runoff.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Construction Site Stormwater Runoff Control**

BMP Title: **Construction Plan Review Procedures**

Responsible Department: Public Works

Measurable Goal: Year 2 – Administer the construction plan review process for 100% of new regulated construction projects.

1. Was the measurable goal accomplished for this permit year? Yes No
(a) If so, explain what was done to accomplish the measurable goal.

The City administered a review process for erosion and sediment control for civil plans of several new and redevelopment. The City engineer reviewed the Hanna Ranch subdivision construction plan.

- (b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No
3. Was this BMP considered to be successful? Yes No
(a) Please explain.

It is important to ensure the City's erosion control plan review procedures are in compliance with the renewed TCEQ permit in order to prevent pollution.

4. Are any changes to this BMP recommended for the next permit term? Yes No
(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Construction Site Stormwater Runoff Control**

BMP Title: **Construction Site Inspections and Enforcement**

Responsible Department: Public Works

Measurable Goal: Year 2 – Inspect 100% of construction sites each year. Inspect 100% of complaints driven site each year.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

There has been no active construction of 1 acre or more in the City for Year 2.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

(a) Please explain.

Implementing the erosion and sediment controls prevent pollutants from entering storm drains and waterways.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Construction Site Stormwater Runoff Control**

BMP Title: **Construction Stormwater Training**

Responsible Department: Public Works

Measurable Goal: Year 2 – Conduct annual construction stormwater training at least once a year for designated City staff and new hires.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

A City employee attended a 7-hour NCTCOG training on February 26, 2020.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

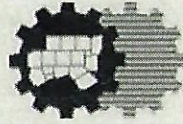
(a) Please explain.

City understands the importance of properly educating and training on construction stormwater to prevent stormwater pollution from active construction sites.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



North Central Texas Council of Governments
Training & Development Institute

Be it known that on Wednesday, February 26, 2020

Floyd Reed

Has successfully completed the required curriculum for

Stormwater Pollution Prevention Practices During Construction

Executive Director

Deputy Executive Director

Hours: 7



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Post-Construction Stormwater Management in New Development and Redevelopment**

BMP Title: **Post-Construction Ordinance**

Responsible Department: Public Works

Measurable Goal: Year 2 – Investigate 100% of post-construction violations or complaints.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

The City continues to implement and enforce the post-construction ordinance. There have been no incidents to report.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

(a) Please explain.

It is important the City be able to enforce the post-construction requirements for new development, and renewed development sites, so that stormwater pollutants are reduced for long term.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Post-Construction Stormwater Management in New Development and Redevelopment**

BMP Title: **Long-Term Maintenance of Post-Construction BMPs**

Responsible Department: Public Works

Measurable Goal: Year 2 – Implement maintenance plans for new owners or operators once post-construction BMPs is installed.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

The City has developed requirements for long-term maintenance and operations. However, there have been no construction of post-construction BMPs.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

(a) Please explain.

It is important to maintain long-term BMPs as per City criteria to ensure proper drainage and prevent stormwater pollution.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Pollution Prevention and Good Housekeeping for Municipal Operations**

BMP Title: **Facility and Stormwater Control Inventory**

Responsible Department: Public Works

Measurable Goal: Year 2 – Maintain an inventory of City-owned and operated facilities and stormwater controls and update as necessary.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

The City has prepared an inventory of City-owned and operated facilities in the MS4. The facilities list includes, parks, maintenance shops, fire departments, and more.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

(a) Please explain.

Preparing and maintaining an inventory of City-owned facilities tracks possible sources or pollutants within the MS4.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No

City of Everman

Parks

Maintenance Shop

Fire Department

Police Department

Library

Shelby Well Lots

Animal Shelter

Annex/City Hall

PD Well Lot

High School Well Lot

Elevated Tank Site

Splash Pad



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Pollution Prevention and Good Housekeeping for Municipal Operations**

BMP Title: ***Municipal Employee Training Program***

Responsible Department: Public Works

Measurable Goal: Year 2 – Provide annual municipal employee training at least once a year for designated staff and new hires.

1. Was the measurable goal accomplished for this permit year? Yes No

(a) If so, explain what was done to accomplish the measurable goal.

A City employee attended a 7-hour NCTCOG training on February 26, 2020.

(b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No

3. Was this BMP considered to be successful? Yes No

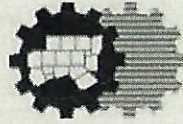
(a) Please explain.

The City understands the importance of educating staff about pollution prevention and good housekeeping can reduce pollution and possible pollutants.

4. Are any changes to this BMP recommended for the next permit term? Yes No

(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



North Central Texas Council of Governments
Training & Development Institute

Be it known that on Wednesday, February 26, 2020

Floyd Reed

Has successfully completed the required curriculum for

Stormwater Pollution Prevention Practices During Construction

Executive Director

Deputy Executive Director

Hours: 7



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Pollution Prevention and Good Housekeeping for Municipal Operations**

BMP Title: **Contractors Requirements and Oversight**

Responsible Department: Public Works

Measurable Goal: Year 2 – Implement contract requirements to new contractors. Maintain contract with current contractors and revise as necessary.

1. Was the measurable goal accomplished for this permit year? Yes No
(a) If so, explain what was done to accomplish the measurable goal.

The City has contractual agreements in place for contractors to comply with the City's stormwater requirements. However, the City only hire contractors for emergency maintenance only.

- (b) If not, why was the measurable goal not accomplished?

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No
3. Was this BMP considered to be successful? Yes No
(a) Please explain.

It is important to implement contractual requirements to ensure that contractors are using appropriate control measures and standard operating procedures when working within the MS4.

4. Are any changes to this BMP recommended for the next permit term? Yes No
(a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No



STORMWATER MANAGEMENT PROGRAM

ANNUAL REPORT FORM

MCM: **Pollution Prevention and Good Housekeeping for Municipal Operations**

BMP Title: ***Municipal Operation and Maintenance Activities***

Responsible Department: Public Works

Measurable Goal: Year 2 – Inspect 100% of municipal operations and facilities once a year.

1. Was the measurable goal accomplished for this permit year? Yes No
- (a) If so, explain what was done to accomplish the measurable goal.

- (b) If not, why was the measurable goal not accomplished?

City facilities were closed due to COVID in order to reduce the spread of the virus. Unfortunately, the City was unable to conduct an assessment of municipal operations and facilities.

2. Was this BMP appropriate to meet the intended MCM(s)? Yes No
3. Was this BMP considered to be successful? Yes No
- (a) Please explain.

The BMP is considered unsuccessful because the City did not conduct inspections for municipal facilities or operations. The City understands the importance of developing pollution prevention measures for municipal O&M activities can reduce stormwater pollution within the MS4 facilities and maintenance.

4. Are any changes to this BMP recommended for the next permit term? Yes No
- (a) If so, please explain.

5. Will a Notice of Change (NOC) be issued for this BMP? Yes No