

# Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number TXR040000

## A. General Information

Authorization Number: TXR040542

Reporting Year (year will be either 1, 2, 3, 4, or 5): 8 (permit renewed but renewal process not yet completed)

Annual Reporting Year Option Selected by MS4:

Calendar Year 2021

Permit Year 2021

Fiscal Year: \_\_\_\_\_ Last day of fiscal year: (\_\_\_\_\_)

Reporting period beginning date: (month/date/year) 1/1/2021

Reporting period end date (month/date/year) 12/31/2021

MS4 Operator Level: 3 Name of MS4: Town of Flower Mound

Contact Name: Joseph Whiteley Telephone Number: 972-874-6354

Mailing Address: 2121 Cross Timbers Road Flower Mound, TX 75028 \_\_\_\_\_

E-mail Address: joseph.whiteley@flower-mound.com

A copy of the annual report was submitted to the TCEQ Region YES X NO \_\_\_\_\_  
Region the annual report was submitted. TCEQ Region 4

## B. Status of Compliance with the MS4 GP and SWMP

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

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.	X		Operating under SWMP technically approved in 2020. Still awaiting TCEQ draft public notice for approval.
Permittee is currently in compliance with recordkeeping and reporting requirements.	X		Town staff maintains records for all datasets referenced within the annual report
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.)	X		The Town has met all eligibility requirements

2. Provide a general assessment of the appropriateness of the selected BMPs. You may use the table below (**See Example 1 in instructions**):

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain.)
1: Public Education, Outreach and Involvement	Stormwater Media Outreach	Yes, we have added some new PSAs and the feedback we receive from residents indicates that the FMTV municipal channel, utility bill inserts, and social media posts are still effective education and outreach tools.
1: Public Education, Outreach and Involvement	Municipal Website Stormwater Page	Yes, the feedback we receive from residents indicates the BMP is still effective.
1: Public Education, Outreach and Involvement	Watershed Address Program	Yes, areas where watershed signs are located are near water bodies and are effective at informing the public about the different parts of their watershed and how illegal dumping and illicit discharges negatively impact the watershed

1: Public Education, Outreach and Involvement	Environmental Conservation Commission	Yes, the Environmental Conservation Commission meets monthly to provide input to Town staff regarding environmental concerns within the Town, including stormwater.
1: Public Education, Outreach and Involvement	Community Source Water Protection Program	Yes, the BMP provides valuable and quantifiable water quality data. This data is a tool used by Texas State University and the Town to evaluate the overall health of the surface water in the state of Texas. Staff continues to run the program for sampling locations within the Town. Additionally, clean-up events help to reduce the amount of floatable trash and litter that can contaminate the MS4.
1: Public Education, Outreach and Involvement	Water Quality Education Events	Yes, stormwater quality education events teach the public the importance of reducing stormwater pollution and promote community involvement.
1: Public Education, Outreach and Involvement	Storm Drain Labeling	Yes, the BMP serves as an effective public education tool by informing residents and contractors that the inlets are not part of the sanitary sewer system. New storm drain labels are added as new inlets are constructed and when inlets are discovered that have a missing label.
2: Illicit Discharge Detection and Elimination	Storm Sewer System Map	Yes, the map continues to be updated as new outfalls and inlets are built. It is a useful tool to identify and eliminate illicit discharges.
2: Illicit Discharge Detection and Elimination	On-Site Sewage Disposal System Discharges	Yes, Town requirements for maintenance contracts and immediate investigation of reported discharges ensure that OSS systems are not discharging harmful contaminants into the MS4.
2: Illicit Discharge Detection and Elimination	Illicit Discharge Reporting System	Yes, reports of illicit discharges and other stormwater related violations are tracked and documented through our internal TRAKiT database allowing staff to investigate and enforce Town Ordinance.
2: Illicit Discharge Detection and Elimination	Illicit Discharge Detection & Elimination Training	Yes, field staff that are properly trained can effectively identify and report potential illicit discharges.

3: Construction Site Stormwater Runoff Control	Construction Site Compliance and Enforcement	Yes, our process has allowed for the evaluation of procedures and provides staff with the regulatory authority to enforce stormwater ordinances. The Town has divided stormwater oversight between our Environmental Services, Construction/Building Inspections, and Public Works Departments. Environmental Services and Construction/Building Inspections oversee new private development and Public Works is responsible for the oversight of Capital Improvement Projects (CIP).
3: Construction Site Stormwater Runoff Control	Construction Site Discharge Reporting System	Yes, reports of illicit discharges and other stormwater related violations are tracked and documented through our internal TRAKiT database allowing staff to investigate and enforce Town Ordinance at construction sites.
3: Construction Site Stormwater Runoff Control	Construction Site Inventory	Yes, Town staff currently has a construction site inventory document that is updated as developments are permitted and/or completed. Our TRAKiT database has had a custom report created that will automatically compile all ground disturbing activity within the Town.
3: Construction Site Stormwater Runoff Control	Stormwater Pollution Prevention Plan Review	Yes, reviewing all SWPPPs submitted for private development projects allows staff to identify potential stormwater concerns before construction begins. This BMP also aids the Town in educating operators about their responsibilities under TCEQ permits.
3: Construction Site Stormwater Runoff Control	Staff Training Program	Yes, training staff responsible for construction inspections in stormwater runoff control allows more eyes in more places. This results in better protection of the MS4.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Comprehensive Stormwater Ordinance	Yes, since the adoption of the Stormwater Ordinance staff has used it to enforce stormwater violations through notices and citations. Cases are created and filed using our TRAKiT system.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Stormwater Structural Control Program	Yes, an inventory and map layer of stormwater ponds within the Town allows for effective tracking and inspection should any water quality issues be reported.

4: Post-Construction Stormwater Management in New Development and Redevelopment	Engineering Design Standards	Yes, reviews by the engineering department prior to construction ensure that stormwater controls are built to a defined standard and are effective.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Facility Specific Standard Operating Procedures (SOPs)	Currently, we have SOPs created for Town facilities. Standard operating procedures are created for new facilities as they are constructed throughout the Town.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility and Stormwater Controls Inventory	Yes, the Town currently has a layer in ArcGIS dedicated to Town facilities and their associated stormwater controls. The previously mentioned map is updated as new facilities and controls are constructed.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility Assessment	Yes, having an inspection checklist and schedule allows for facilities to identify potential issues and update structural and behavioral SOPs.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Storm Sewer System Inspection and Maintenance Program	Yes, this allows the Public Works department to ensure all Town owned stormwater controls are maintained on a regular basis.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Operations and Maintenance Training	Yes, training employees whose work regularly involves activities that could be potentially damaging to water quality is necessary to protect the MS4.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Street Cleaning Program	Yes, conducting periodic street sweeping events lowers the amount of sediment in the roadway that may eventually enter the MS4.
7: Authorization for Municipal Construction Activities	Erosion Control Plan Review	Yes, review of erosion control plans for CIP projects ensures that construction of any size has adequately implemented and considered proper stormwater BMPs.
7: Authorization for Municipal Construction Activities	Municipal Construction Site Inspections	Yes, conducting inspections of all municipal construction sites ensures that the Town is holding itself to the same standards it holds private developers.

7: Authorization for Municipal Construction Activities	Stormwater Pollution Prevention Plan Review	Yes, reviewing SWPPPs for applicable CIP projects allows Town staff to identify potential threats to the MS4 before construction begins.
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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. You may use the table (**See Example 2 in instructions**):

<b>MCM</b>	<b>BMP</b>	<b>Information Used</b>	<b>Quantity</b>	<b>Units</b>	<b>Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain.)</b>
1: Public Education, Outreach and Involvement	Stormwater Media Outreach	Records of messages posted to social media, the Town television station, and through utility bill inserts.	There were eight (8) stormwater related messages distributed in 2021. Four (4) YouTube, two (2) Facebook, one (1) utility bill insert, and one (1) newsletter messages were posted.	Number of messages distributed	Yes, social media and FMTV allows residents to educate themselves about stormwater quality and water conservation.

1: Public Education, Outreach and Involvement	Municipal Website Stormwater Page	Municipal Website (www.flower-mound.com)	Yes, the SWMP and annual report were added to the website.	Annual Report and SWMP reviewed and posted? (Y/N)	No, this BMP is in place to promote transparency with the community.
1: Public Education, Outreach and Involvement	Watershed Address Program	Public Works' records system	All signs have been installed. Maintenance schedule is ongoing.	Number of signs added.	Yes, signs help make public cognizant of local watersheds.
1: Public Education, Outreach and Involvement	Environmental Conservation Commission	Town Records	ECC met nine (9) times in 2021.	Number of Meetings	Yes, ECC provides citizen input on environmental concerns.
1: Public Education, Outreach and Involvement	Community Source Water Protection Program	Texas Stream Team Records, volunteer correspondence, outreach	Six (6) active volunteers monitored stream segments and eighty-four (84) cleanup locations were assigned in 2021.	Number of sites cleaned up or monitored	Yes, monitoring stream segments provides baseline water quality information to state agencies and cleanup events directly reduce contaminants present in the MS4.

1: Public Education, Outreach and Involvement	Water Quality Education Events	Outreach records and correspondence with local schools	Water quality education was conducted at six (6) elementary schools and three (3) middle schools reaching 1172 students. One (1) additional educational event provided at an environmental fair.	Number of education events conducted	Yes, educating the public and students is a behavioral BMP that promotes awareness and encourages environmentally sustainable practices.
1: Public Education, Outreach and Involvement	Storm Drain Labeling	Public Works' records system	Sixty-six (66) storm drain labels added.	Number of storm drain labels installed	Yes, storm drain labels discourage illegal discharges.
2: Illicit Discharge Detection and Elimination	Storm Sewer System Map	GIS department recordkeeping. *  *Numbers as of most recent reporting. Estimated yearly totals in parenthesis.	In 2021, 13,860 (27,720) feet of gravity main, 16 (28) manholes and 92 (164) storm inlets were added to the database	Feet of gravity main, manholes, inlets, added	Yes, this allows staff to recognize potential areas for illegal dumping and illicit discharges.
2: Illicit Discharge Detection and Elimination	On-Site Sewage Disposal System	Town's TRAKiT database	All eleven (11) reported discharges were investigated	Number of OSSF discharges reported/investigated	Yes, reporting and investigation of septic discharges directly affects the health of the MS4.



2: Illicit Discharge Detection and Elimination	Illicit Discharge Reporting System	Town's TRAKiT database	Twenty-six (26) cases related to Stormwater – Illicit Discharges. Seven (7) were residential/commercial and nineteen (19) were construction.	Number of cases	Yes, this document allows staff to track illicit discharges.
2: Illicit Discharge Detection and Elimination	Illicit Discharge Detection and Elimination Training	Public Works' training records	100% of field departments were reached with training. 90% of all employees in those departments completed training. (197/218 employees)	Percentage of field departments trained	Yes, a well-trained trained staff can better identify and report issues in the field. *  *Training was conducted remotely due to COVID-19 precautions.
3: Construction Site Stormwater Runoff Control	Construction Site Compliance and Enforcement	Town's TRAKiT database	No updates made to stormwater ordinance. Twenty-six (26) NOVs and two (2) citations written.	Enforcement related updates made during reporting year	Yes, enforcing the ordinance reduces the number of contaminates entering the MS4.
3: Construction Site Stormwater Runoff Control	Construction Site Discharge Reporting System	Town's TRAKiT database	Forty-one (41) stormwater cases created in 2021.	Number of discharges reported/investigated	Yes, staff continues to use the hotline and online reporting to monitor illegal dumping/illicit discharge calls.

3: Construction Site Stormwater Runoff Control	Construction Site Inventory	Town's TRAKiT database	Four hundred and three (403) private and thirty-four (34) public construction projects added to database in 2021.	Number of active sites	Yes, this inventory allows for a more efficient inspection process.
3: Construction Site Stormwater Runoff Control	Stormwater Pollution Prevention Plan Review	Town's TRAKiT database	Forty-five (45) private development SWPPPs reviewed in 2021.	Number of SWPPPs reviewed.	Yes, reviewing SWPPPs for efficacy directly reduces the impact of construction site discharges.
3: Construction Site Stormwater Runoff Control	Staff Training Program	Public Works' training records	100% of applicable departments reached with training. 88% of employees (35/40) completed the training.	Percentage of applicable departments trained.	Yes, a well-trained staff can better identify and report issues in the field.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Comprehensive Stormwater Ordinance	Continue enforcement of stormwater ordinance through notices and citations.	Twenty-six (26) NOVs and two (2) citations written.	Number of citations and notices of violation	Yes, staff continued enforcement of the ordinance in 2021.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Stormwater Structural Control Program	Create an inventory of all stormwater ponds in the Town	Two (2) ponds were added to Town inventory in 2021.	Number of ponds added to Town inventory in 2021.	Yes, having an up-to-date inventory will aid in future inspection requirements.

4: Post-Construction Stormwater Management in New Development and Redevelopment	Engineering Design Standards	Standards posted on Town website and distributed/ discussed during review periods and construction.	100% of private developments reviewed per Town SOP.	Percentage of new developments reviewed	Yes, Town engineering standards ensure that developers are building and installing adequate stormwater protection features.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Facility Specific Standard Operating Procedures (SOPs)	Public Works' records system	Twelve of twenty-two (54%) SOPs were reviewed by Town staff in 2021.	Percentage of SOP's reviewed.	Yes, SOPs ensure that employees are aware of the proper way to handle spills and stormwater concerns.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility and Stormwater Controls Inventory	Town Network Map	Stormwater control inventory was added to map.	Facilities and stormwater controls added to the map periodically.	Yes, adding stormwater control features to the map allows staff to locate and inspect them more efficiently.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility Assessment	Facility Inspections Checklist	Checklist Completed. Twenty (20) facility inspections were conducted with the checklist.	Checklist completed? (Y/N)	Yes, this helps staff identify issues at Town facilities to prevent stormwater pollution.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Storm Sewer System Inspection and Maintenance Program	Cityworks Database	Three hundred and eighty-six (386) stormwater controls inspected in 2021.	Number of stormwater controls inspected	Yes, this ensures town controls are operating correctly.

5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Operations and Maintenance Training	Public Works' training records	98/99 O&M employees completed the annual training.	Number of applicable employees trained	Yes, O&M employees handle materials and tasks that could be hazardous to the MS4.
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Street Cleaning Program	Public Works' records	Four (4) street sweeping events completed in 2021.	Number of streets sweeping events completed.	Yes, this BMP keeps sediment from accumulating in the roadways and potentially migrating into the MS4.
7: Authorization for Municipal Construction Activities	Erosion Control Plan Review	Public Works' records	Eleven (11) erosion control plans were reviewed in 2021.	Number of erosion control plans reviewed for CIP projects.	Yes, this BMP allows the town to make sure that CIP projects are implementing appropriate stormwater BMPs.
7: Authorization for Municipal Construction Activities	Municipal Construction Site Inspections	Public Works' records	Eighteen (18) initial BMP inspections were performed on CIP projects along with daily general inspections for each site.	Number of municipal construction site inspections.	Yes, this BMP allows the town to make sure that CIP projects are implementing appropriate stormwater BMPs.
7: Authorization for Municipal Construction Activities	Stormwater Pollution Prevention Plan Review	Public Works' records	Seven (7) Stormwater Pollution Prevention Plan Reviews occurred in 2021.	Number of SWPPPs reviewed for CIP projects.	Yes, this BMP allows the town to make sure that CIP projects are implementing appropriate stormwater BMPs.

4. Provide the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals (**See Example 3 in instructions**):

<b>MCM(s)</b>	<b>Measurable Goal(s)</b>	<b>Explain progress toward goal or how goal was achieved If goal was not accomplished, please explain</b>
1	Post 3 stormwater quality messages.	Met goal- 8 stormwater quality messages were posted.
1	Review the website and add annual report and SWMP each year	Met goal - The stormwater webpage was updated as needed.
1	Install 10 additional watershed signs in designated areas without signage	Met goal- All signs have been installed and maintained per schedule.
1	Meet with the ECC at least quarterly	Met goal- ECC held a total of nine (9) meetings in 2021.
1	Work with volunteers to monitor and/or clean up at least 10 locations annually	Met goal- six (6) stream segments monitored and eighty-four (84) clean-up stations assigned.
1	Conduct 10 water quality education events annually	Met goal – Conducted ten (10) water quality education events.
1	Storm Drain Labeling	Met goal - installed sixty-six (66) storm drain labels.
2	Add all new storm system features to the Storm Sewer System Map annually	Met goal - Updates continue to be made.
2	Investigate 100% of potential OSSF discharges to MS4 and send deficiency letters to 100% of properties that do not maintain a maintenance contract.	Met goal – Eleven (11) OSSF discharges reported and investigated. All new installations require maintenance contracts.

2	Investigate 100% of reported illicit discharges.	Met goal- Forty-one (41) illicit discharges reported and investigated.
2	Train at least 75% of departments containing field staff annually.	Met goal – 100% of field departments reached with training.
3	Enforce and update the ordinance. Document enforcement actions taken during reporting year.	Met goal - No updates made to ordinance. Ordinance enforced with notices of violation, citations, and permit holds.
3	Investigate 100% of reported construction site discharges.	Met goal- All construction site violations reported investigated.
3	Maintain and updated database as new sites are added throughout the Town.	Met goal- The Town's stormwater inventory database was updated throughout the year.
3	Review and comment on all SWPPPs submitted to the Town for Review.	Met goal – Forty-five (45) SWPPPs submitted and reviewed.
3	Train 100% of departments which enforce construction site stormwater requirements annually.	Met goal – 100% of applicable departments reached with training.
4	Enforce all provisions of the stormwater ordinance and document any violations and/or enforcement measures	Met goal - Ordinance is enforced through permit holds, NOVs, and citations as violations occur.
4	Update inventory of all stormwater ponds in the Town	Met goal- Two (2) ponds were added to the inventory this year. The process is being updated to capture relevant water features for future inspection needs.

4	Review engineering plans for all new development and redevelopment to ensure that they comply with Town's design standards for structural stormwater controls.	Met goal – The development consists of multiple engineering and environmental reviews to ensure standards are met.
5	Review 50% of existing SOPs annually	Met goal – 12/22 (54%) SOPs from all departments were reviewed and updated in 2021
5	Review the Facility Inventory and Facility Map annually	Met goal- Updates are made when new controls are constructed within the Town
5	Finalize and complete the facility inspections checklist	Met goal- Checklist developed and twenty (20) inspections conducted.
5	Inspect at least 100 stormwater controls annually	Met goal- Town staff inspected 386 stormwater controls.
5	Conduct Operations and Maintenance Program Training Annually	Met goal – ninety-eight (98) employees trained.
5	Conduct two street sweeping events annually	Met goal – Four (4) street sweeping events conducted in 2021.
7	Review all erosion control plans for municipal construction activities.	Met goal – Eleven (11) erosion control plans were reviewed for applicable municipal construction activities in 2021.
7	Conduct stormwater inspections at all municipal construction activities	Met goal – Eighteen (18) initial inspections were conducted alongside daily checks for municipal construction activities in 2021.
7	Review all SWPPPs for municipal construction activities	Met goal – All seven (7) municipal projects requiring a SWPPP were reviewed in 2021.

## **C. Stormwater Data Summary**

**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. For example, did the MS4 conduct visual inspections, clean the inlets, look for illicit discharge, clean streets, look for flow during dry weather, etc.? (Refer to the MS4 General Permit TXR040000 Part IV Section B.2.(b))**

Sampling was conducted by the Town of Flower Mound in 2021 as part of the implementation of the dry weather screening program. In addition, Citizen Scientists from our Texas Stream Team program provide our Stormwater Department with water quality data.

During 2021 the Town inspected 386 stormwater controls (outfalls, inlets, and manholes). No items of concern were noted during infrastructure inspections. Staff also responded to several reports from citizens of illicit discharges in local waterways from residential and construction-related sources. Biological processes, such as a bio-sheens and algae growth, are often mistaken by our residents as water pollution.

## **D. Impaired Waterbodies**

- 1. 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: (Refer to MS4 General Permit TXR040000 Part IV Section B.2.(c))**

In 2021 the Town continued its dry weather sampling program. Our dry weather sampling program consists of strategically chosen sampling locations throughout the Town that will monitor seven (7) water quality parameters. The dry weather sampling will allow us to determine baseline values for each location, as well as providing continuous monitoring of pH levels for streams which discharge into Grapevine Lake.

In addition, Citizen Scientists from our Texas Stream Team program provide our Stormwater Department with water quality data, including pH data.

- 2. Describe the implementation of targeted controls if the small MS4 discharges to an impaired water body with an approved TMDL (Refer to the MS4 General permit TXR040000; Part II Section D.4.(a)):**

Not applicable to the Town of Flower Mound

- 3. Report the benchmark identified by the MS4 and assessment activities (Refer to the MS4 General permit TXR040000; Part II Section D.4.(a)(6)):**



<b>Benchmark Parameter</b> <i>(Ex: Total Suspended Solids)</i>	<b>Benchmark Value</b>	<b>Description of additional sampling or other assessment activities</b>	<b>Year(s) conducted</b>
pH level	< 9	According to the 2018 Texas Integrated Report Index of Water Quality Impairments, Grapevine Lake has been listed as impaired due to the pH level since 2012. It is listed as 5c which means no TMDL has been created. Streams discharging into Grapevine Lake will continually be monitored at predetermined sampling sites under our Dry Weather Sampling Program to ensure that the Town is not contributing to the pH impairment.	8

**4. Provide an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark (Refer to the MS4 General permit TXR040000; Part II Section D.4.(a)(4)):**

<b>Benchmark Parameter</b>	<b>Selected BMP</b>	<b>Contribution to achieving Benchmark</b>
pH level	Sampling/monitoring and public education.	Water quality information will continue to be disseminated by multiple methods and will allow for the determination of baseline levels of pH in the streams discharging into Grapevine Lake. If any streams are found to have consistently high pH this will help us to determine potential sources of pollution.

**5. If applicable, report on focused BMPs to address impairment for bacteria (Refer to the MS4 General Permit TXR040000; Part II Section D.4.(a)(5)):**

Description of bacteria-focused BMP	Comments/Discussion
N/A	N/A

**6. Assess the progress to determine BMP’s effectiveness in achieving the benchmark (Refer to the MS4 General Permit TXR040000; Part II.D.4.(a)(6)):**

**For example, the MS4 may use the following benchmark indicators:**

- **number of sources identified or eliminated;**
- **decrease in number of illegal dumping;**
- **increase in illegal dumping reporting;**
- **number of educational opportunities conducted;**
- **reductions in sanitary sewer flows (SSOs)**
- **increase in illegal discharge detection through dry screening**

Benchmark Indicator	Description/Comments
Number of educational opportunities conducted	The Town conducted educational events at nine (9) elementary schools and three (3) middle schools reaching 1,172 students.
Illegal discharge detection through dry screening	386 stormwater controls were inspected. The Town’s dry weather sampling program was conducted again in 2021 with thirty-eight (38) locations around the Town.

**E. Stormwater Activities**

Describe stormwater activities the MS4 operator plans to undertake during the next reporting year. You may use the table below (Refer to the MS4 General Permit TXR040000 Part IV Section B.2.(d)):

<b>MCM(s)</b>	<b>BMP</b>	<b>Stormwater Activity</b>	<b>Description/Comments</b>
1: Public Education, Outreach and Involvement	Municipal Stormwater Quality Messages	Post 3 stormwater quality messages	The Town plans to educate the public regarding stormwater quality and pollution prevention by posting to social media and Flower Mound TV
1: Public Education, Outreach and Involvement	Municipal Website with stormwater quality information	Review the website and add the annual report and SWMP each year.	The Town plans to add the annual report and revised SWMP to the website each year and will update other stormwater pages as necessary.
1: Public Education, Outreach and Involvement	Watershed Address Program	Continue inspection of signage per 10-year traffic sign replacement cycle.	The Town is going to inspect watershed address signs and replace/repair as needed.
1: Public Education, Outreach and Involvement	Public Meetings	Meet with the ECC at least quarterly	Town staff will meet with the Environmental Conservation Commission to discuss environmental issues affecting the Town.
1: Public Education, Outreach and Involvement	Community Source Water Protection Program	Work with volunteers to monitor and/or clean up at least 10 locations annually	Town staff will work with volunteers to monitor and/or clean 10 locations throughout the Town.
1: Public Education, Outreach and Involvement	Water Quality Education Events	Conduct 10 water quality education events annually	Town staff will conduct at least 10 water quality education events.
1: Public Education, Outreach and Involvement	Storm Drain Labeling	Install at least 50 storm drain labels annually	Town staff will install at least 50 storm drain labels on new inlets and inlets where labels are missing or damaged.
2: Illicit Discharge Detection and Elimination	Storm Sewer System Map	Add all new storm system features to the Storm Sewer System Map annually	The Town plans to continue updating our storm sewer system map annually

2: Illicit Discharge Detection and Elimination	On-Site Sewage Disposal Systems	Investigate 100% of potential OSSF discharges to MS4 and send deficiency letters to 100% of properties that do not maintain a maintenance contract	Town staff will investigate all potential discharges and will monitor the registered OSSFs throughout the Town.
2: Illicit Discharge Detection and Elimination	Illicit Discharge Reporting System	Investigate 100% of reported illicit discharges	Town staff will investigate all reported illicit discharges to the MS4.
2: Illicit Discharge Detection and Elimination	Illicit Discharge Detection and Elimination Training	Train at least 75% of departments containing field staff annually	Town staff will be trained regarding how to prevent and reduce stormwater pollution from illicit discharges
3: Construction Site Stormwater Runoff Control	Comprehensive stormwater ordinance	Enforce and update the ordinance. Document enforcement actions taken during reporting year	Town staff will continue to enforce the stormwater ordinance at construction sites and will update the ordinance if necessary.
3: Construction Site Stormwater Runoff Control	Construction Site Discharge Reporting System	Investigate 100% of reported construction site discharges	Town staff will investigate all reported construction site discharges
3: Construction Site Stormwater Runoff Control	Maintain a Construction Site Inventory Database	Maintain and update database as new sites are added throughout the Town	Town staff will add any new construction sites that occur during the calendar year to the database
3: Construction Site Stormwater Runoff Control	SWPPP Review	Review and comment on all SWPPPs submitted to the Town for review	Town staff will review all SWPPPs developed for construction activities.
3: Construction Site Stormwater Runoff Control	Staff Training Program	Train 100% of departments which enforce construction site stormwater requirements	Town staff will conduct trainings for all departments which enforce the comprehensive stormwater ordinance at construction sites.

4: Post-Construction Stormwater Management in New Development and Redevelopment	Comprehensive Stormwater Ordinance	Enforce all provisions of the stormwater ordinance and document any violations and/or enforcement measures	Town staff will continue to enforce the stormwater ordinance and maintain documentation for violations and enforcement measures.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Evaluate and Enforce the Stormwater Inspections Program	Update inventory of all stormwater ponds in the Town	Town staff will create an inventory of all stormwater ponds located in the Town.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Engineering Design Standards	Review engineering plans for all new development and redevelopment to ensure that they are in compliance with the Town's design standards for structural stormwater controls	Town staff will review engineering plans for development projects to ensure that they are in compliance with the Town's design standards
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Facility Specific Standard Operating Procedures	Review 50% of existing SOP(s) annually	Town staff will review the SOPs for Town facilities and update them as necessary
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility and Stormwater Controls Inventory	Review the Facility Inventory and Facility Map annually	Town staff will review the facility inventory and map and make any necessary changes

5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Facility Assessment	Develop a plan and checklist for facility inspections	Town staff will develop a facility assessment plan and checklist
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Inspection and Maintenance Program	Inspect at least 100 stormwater controls annually	Town staff will inspect at least 100 stormwater controls
5: Pollution Prevention/Good Housekeeping for Municipal Operations	MS4 Operations and Maintenance Training	Conduct operations and maintenance program training annually	Town staff will conduct training for all operations and maintenance departments
5: Pollution Prevention/Good Housekeeping for Municipal Operations	Street Cleaning Plan	Conduct two (2) street sweeping events annually	Town staff will ensure that two (2) street sweeping events are conducted in compliance with the Town's street cleaning plan
7: Authorization for Municipal Construction Activities	Erosion Control Plan Review	Review all erosion control plans for municipal construction activities	Town staff will review erosion control plans for all municipal construction activities
7: Authorization for Municipal Construction Activities	Municipal Construction Site Inspections	Conduct stormwater inspections at all municipal construction activities	Town staff will conduct stormwater inspections at all municipal construction activities
7: Authorization for Municipal Construction Activities	Stormwater Pollution Prevention Plan Review	Review all SWPPPs for municipal construction activities	Town staff will review SWPPPs developed for municipal construction activities

## F. SWMP Modifications

1. 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\*

\*STILL AWAITING ISSUANCE OF PUBLIC NOTICE FOR PROPOSED CHANGES

If 'Yes', report on changes made to measurable goals and BMPs (Refer to the MS4 General Permit TXR040000 Part IV Section B.2.(e)):

MCM(s)	Measurable Goal(s) or BMP(s)	Implemented or Proposed Changes (Submit NOC as needed)
N/A	N/A	N/A

**Note:** If changes include additions or substitutions of BMPs, include a written analysis explaining why the original BMP is ineffective or not feasible and why the replacement BMP is expected to achieve the goals of the original BMP.

- 2. Explain additional changes or proposed changes not previously mentioned (i.e., dates, contacts, procedures, annexation of land etc.):**

Not applicable

## G. Additional BMPs for TMDLs and I-Plans

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 (Refer to the MS4 General permit TXR040000 Part IV Section B.2.(f)).

BMP	Description	Implementation Schedule (Start Date etc.)	Status / Completion Date (completed, in progress, not started)
N/A	N/A	N/A	N/A

## H. Additional Information

1. Is the permittee relying on another entity to satisfy some of its permit obligations? (refer to the MS4 General Permit TXR040000 Part IV Section B.2.(g))

Yes  No

If 'Yes,' provide the name(s) of other entities and an explanation of their responsibilities (add more spaces or pages if needed):

Name and Explanation:

- 2.a. Is the permittee part of a group 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

If 'Yes,' list all associated authorization numbers, permittee names, and SWMP responsibilities of each member. (add additional spaces or pages if needed):

Authorization Number: \_\_\_\_\_ Permittee: \_\_\_\_\_

## I. Construction Activities

1. The number of construction activities that occurred in the jurisdictional area of the MS4 (Notices of intent and site notices received; Refer to the MS4 General Permit TXR040000 Part IV Section B.2.(h)) 403 (includes single family dwellings)

- 2a. Does the permittee utilize the optional 7<sup>th</sup> MCM related to construction?

Yes  No

- 2b. If 'yes,' then provide the following information for this permit year (refer to the MS4 General Permit TXR040000 Part IV Section B.2.(i)):

The number of municipal construction activities authorized under this general permit	18
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The total number of acres disturbed for municipal construction projects	Municipal projects covered under this MCM disturbed a total of 29.82 acres in 2021.
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**Note:** Though the seventh MCM is optional, implementation must be requested on the NOI or on a NOC and approved by the TCEQ.

## 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 persons 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 (printed): JOSEPH WHITELEY Title: ENV. REVIEW ANALYST

Signature:  Date: March 14, 2022


Name of MS4 TOWN OF FLOWER MOUND

Name (printed): Matthew Woods Title: Director of Environmental Services

Signature:  Date: 3/23/2022


Name of MS4

Name (printed): Tommy Dalton Title: Assistant Town Manager

Signature:  Date: 3/23/2022

Name of MS4

Name (printed): James Childers Title: Town Manager

Signature:  Date: 3/23/2022

Name of MS4

Name (printed): \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name of MS4

**Note:** If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).