



December 16, 2021

Texas Commission on Environmental Quality  
Stormwater & Pretreatment Team Leader (MC -148)  
P. O. Box 13087  
Austin, Texas 78711- 3087

Texas Commission on Environmental Quality  
Water Section Manager  
2309 Gravel Drive  
Fort Worth, Texas 76118-6951

Re: Phase II MS4 Annual Report Transmittal for the City of Grapevine  
TPDES Permit Authorization: TXR040114

Dear Team Leader:

This letter serves to transmit the required annual report for the Texas Pollutant Discharge Elimination System Small Municipal Separate Storm Sewer System General Permit, Authorization Number TXR040114 for the City of Grapevine.

The annual report is for Year 3. The reporting period's beginning October 1, 2020 and ending September 30, 2021.

A separate Notice of Change has not been submitted based on the fact that changes have not been proposed for the next permit year.

As required by the general permit, a copy of the report has also been mailed to the TCEQ's regional office, for Region 4, in Fort Worth, Texas.

Sincerely,

Gregory Moss, Environmental Specialist II  
City of Grapevine  
501 Shady Brook Dr.  
Grapevine TX 76051  
817-410-3334  
gmoss@grapevinetexas.gov

cc: Bryan Beck, Director of Public Works, City of Grapevine  
Keith Miertschin, Assistant Director of Operations, Public Works, City of Grapevine  
Dewey Stoffels, Environmental Manager, City of Grapevine

Enclosure: Phase II (Small) MS4 Annual Report for TPDES Permit Number TXR040114



PUBLIC WORKS DEPARTMENT

# Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number **TXR040000**

## A. General Information

Authorization Number: **TXR040114**

Reporting Year (year will be either 1, 2, 3, 4, or 5): **3**

Annual Reporting Year Option Selected by MS4:

Calendar Year: \_\_\_\_\_

Permit Year: \_\_\_\_\_

Fiscal Year:  Last day of fiscal year: (**September 30<sup>th</sup>**)

Reporting period beginning date: (month/date/year) **October 1<sup>st</sup>, 2020**

Reporting period end date: (month/date/year) **September 30<sup>th</sup>, 2021**

MS4 Operator Level: **3** Name of MS4: **City of Grapevine**

Contact Name: **Gregory Moss, Environmental Specialist II**

Telephone Number: **817-410-3334**

Mailing Address: **City of Grapevine, 501 Shady Brook Drive, Grapevine TX 76051**

E-mail Address: **gmoss@grapevinetexas.gov**

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

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.	X		The City of Grapevine is currently in Compliance with its SWMP as submitted to the TCEQ

Permittee is currently in compliance with recordkeeping and reporting requirements.	X		The City of Grapevine is currently in compliance with all record keeping and reporting requirements.
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.).	X		The City of Grapevine meets all of its eligibility requirements.
Permittee conducted an annual review of its SWMP in conjunction with preparation of the annual report	X		The City of Grapevine SWMP was reviewed prior to and in conjunction with this Year 3 annual report.

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

MCM	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
1: Public Education, Outreach and Involvement	Stormwater Management Plan and Annual Report Availability	Yes. Posting of the City's Stormwater Management Plan and Annual Reports on the City's website provides residents and other interested parties with access to the City's means and methods of preventing stormwater pollution. It may also open dialogue between parties to improve the program.
1: Public Education, Outreach and Involvement	Stormwater Website/ Newsletters/ Social Media	Yes. Updating the City newsletter, social media, stormwater website is way to provide students and the local community with a basic understanding of environmental rules and initiatives as it relates to stormwater management, as well as providing general information about stormwater.
1: Public Education, Outreach and Involvement	Participate in Stormwater Public Education Task Force	Yes. Participation in the Public Education Task Force is way for the City of Grapevine to provide its residents with a basic understanding of environmental rules and initiatives as it relates to the stormwater in the community through new and innovative techniques that have been developed in and around the North Texas area. These types of programs are an effective way to keep Grapevine moving forward in its promotion of educating the public on stormwater related issues.
1: Public Education, Outreach and Involvement	Community Volunteers	Yes. Community volunteer involvement provides the community with a sense of ownership in the City's stormwater program.
1: Public Education, Outreach and Involvement	Roadside Watershed Signs	Yes. Roadside signs are a source of information for residents and visitors to know what watershed they are in and where potential pollutants may drain to.
1: Public Education, Outreach and Involvement	Storm Drain Marking	Yes. Storm drain markers are an effective way to educate the public on where stormwater enters and exits the storm drainage system and what areas may be affected by stormwater pollution. They are a visible reminder to both

		residents and visitors of stormwater conveyances around the City. Storm drain markers are also an effective way to provide the public with information on how to report illicit discharges.
1: Public Education, Outreach and Involvement	Stormwater Education Presentation	Yes. Presentations are an effective way to provide the public with stormwater information. By conducting stormwater presentations, the City is able to provide stormwater information in an effective manner to residents and students alike.
1: Public Education, Outreach and Involvement	Stream and Shoreline Cleanup	Yes. Removal of trash and debris keeps this material from polluting the storm drain system through public involvement.
1: Public Education, Outreach and Involvement	Environmental Audits	Yes. Conducting environmental audits provides audited businesses with educational material that includes stormwater related materials. These industrial audits also focus on reducing issues with FOG and maintenance of grease/ grit traps.
2: Illicit Discharge Detection and Elimination	Maintain Up-to-Date MS4 Map	Yes. Maintaining up-to-date Ms4 maps gives the City a proper inventory of storm drain structures and provides a resource for tracking IDDE events.
2: Illicit Discharge Detection and Elimination	City Field Staff IDDE Training	Yes. Providing annual training to Municipal field staff regarding identifying and responding to illicit discharges reduces response times to these events.
2: Illicit Discharge Detection and Elimination	Participate in the Illicit Discharge Detection and Elimination Task Force	Yes. Allows the City to stay up-to-date and maintain contacts within the stormwater industry, particularly with IDDE.
2: Illicit Discharge Detection and Elimination	Public Reporting of IDDE	Yes. Maintain a record of and track the number of and responses to IDDE events within the MS4.
2: Illicit Discharge Detection and Elimination	Environmental Audits	Yes. Conducting environmental audits provides audited businesses with educational material that includes stormwater related materials.
2: Illicit Discharge Detection and Elimination	Household Hazardous Waste Program	Yes. Provides residents with an appropriate place to dispose of household hazardous waste. Keeps potential pollutants out of the storm drain system.
3: Construction Site Stormwater Runoff Control	Staff Construction Site Stormwater Training	Yes. Provides necessary stormwater construction training to municipal staff involved in inspecting construction sites in the MS4.
3: Construction Site Stormwater Runoff Control	CSN and NOI Tracking	Yes. The tracking of active construction sites within the MS4 provides potential pollutant source information.
3: Construction Site Stormwater Runoff Control	Construction Site Erosion and Sediment Control Audits	Yes. Ensures construction site compliance with the Construction General Permit and to reduce the amount of sediment received from construction site activities.
3: Construction Site Stormwater Runoff Control	Active Construction Site Inventory	Yes. Maintaining an active construction site inventory allows the City to track sites that may contribute potential pollutants to stormwater.

3: Construction Site Stormwater Runoff Control	Review of Erosion and Sediment Control Plans	Yes. Review of plans allows the City determine if builders have adequate protection to prevent stormwater pollution prior to construction.
3: Construction Site Stormwater Runoff Control	Pre-Construction Meetings	Yes. Holding pre-construction meetings allows the City to present potential stormwater related issues to builders prior to start of work.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Post-Construction BMP Maintenance	Yes. Maintenance of Post-Construction BMPs ensures that the BMPs continue to function as intended, providing pollution prevention measures.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Post-Construction BMP Inventory	Yes. Maintaining a Post-Construction BMP Inventory allows the City to know where pollution prevention measures are located and allows tracking of maintenance.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Smartscape	Yes. Xeriscaping and the planting of native plants provides the City with landscaping that utilizes little to no water and therefore has little to no runoff that may carry pollutants.
4: Post-Construction Stormwater Management in New Development and Redevelopment	Construction Site Plan Review	Yes. Reviewing of Construction Plans for post-construction BMPs allows the City to maintain an accurate BMP inventory, as well as ensuring that plats include maintenance responsibilities.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	City Facility Pollution Prevention Audits	Yes. Auditing City facilities for pollution prevention ensures that these locations do not contribute to storm water pollution.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Pollution Prevention Training	Yes. Training employees in pollution prevention places responsibility on the individual to prevent pollution through their actions and at their facility.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Municipal Operations and Maintenance Assessment	Yes. Ensures municipal operations and activities do not contribute to stormwater pollution within the MS4.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Stormwater Controls for High Priority Facilities	Yes. Determines which, if any, "High Priority" facilities require stormwater controls above and beyond those currently installed in order to prevent stormwater pollution from municipal activities.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Storm Sewer System Operation and Maintenance	Yes. Ensures maintenance of storm sewer structures and infrastructure in optimal functionality.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Pollutant Reduction from Road Maintenance and Operations	Yes. Ensures removal of potential pollutants of concern from roadways and prevent them from entering the MS4.
TMDL	Participation in TCEQ SSOi Program	Yes. Continues participation in the SSOi program to meet the goals of the of the Bacteria Impairment TMDL the Big Bear Creek Watershed, specifically related Sanitary Sewer

		Systems.
TMDL	On-Site Sewage Facilities	Yes. Addresses the potential contribution of OSSF to the bacterial impairment of the watershed through identifying and addressing failing systems and addressing inadequate maintenance of OSSFs.
TMDL	Liquid Waste Hauling	Yes. Provides information on potential sources of pollution.
TMDL	Pet/ Animal Waste Management	Yes. Informs the public of the issues associated with animal waste and how to properly dispose of it.
pH	Water Quality Impairment	Yes. Will determine whether the City of Grapevine, as an MS4, is contributing to the pH impairment of Grapevine Lake (Segment 0826) and take any required corrective action, as necessary, should it be determined.

3. Describe progress towards achieving the goal of reducing the discharge of pollutants to the MEP. If no progress was made or the BMP did not result in a reduction in pollutants, provide an explanation. Use the table below to meet this requirement (**see Example 2 in instructions**):

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
	pH-1	pH	24 samples (6 per quarter)	su	Yes. All pH monitoring data was within the normal range. Demonstrates that Grapevine has not contributed to the pH impairment of Grapevine Lake during this monitoring period.

**Summary:** The attached list (Attachment 1) of water quality sampling events during the Permit Year 3 time period (October 1, 2020 through September 30, 2021) show that the tested creeks within the City of Grapevine showed no impairment for the tested parameters during the sampling period. The City of Grapevine will continue administering the current Stormwater Monitoring Plan as is, due to the positive nature of the water quality within the City limits.

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**):

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved.
1: Public Education, Outreach and Involvement	Post Year 2 Annual Report to City Website.	Met Goal: Developed a website for posting Annual Report. <a href="https://www.grapevinetexas.gov/531/Stormwater-Watershed-Quality-Management">https://www.grapevinetexas.gov/531/Stormwater-Watershed-Quality-Management</a>
1: Public Education, Outreach and Involvement	Perform a website, newsletter, and/or social media updates at least six times/year	Exceeded Goal: Website, newsletter, and/or social media updated 56 times (6 required).

1: Public Education, Outreach and Involvement	Participate in 25% of PETF meetings/year	Exceeded Goal: Attended 100% (4 of 4) meetings.
1: Public Education, Outreach and Involvement	Inspect 20% of installed signs, repair/ replace (as needed).	Exceeded Goal: Inspected 28.6% (12 of 42) of installed signs.
1: Public Education, Outreach and Involvement	Inspect 20% of all installed storm drain markers.	Exceeded Goal: 20.4% of markers were inspected, replaced or newly installed.
1: Public Education, Outreach and Involvement	Provide at least 2 stormwater education presentations/ year	Exceeded Goal: Made 38 stormwater education presentations.
1: Public Education, Outreach and Involvement	Conduct at least 1 cleanup event/year	Exceeded Goal: Grapevine held 36 cleanup events.
1: Public Education, Outreach and Involvement	Conduct at least 25 environmental audits/ year	Exceeded Goal: Conducted 63 environmental audits.
2: Illicit Discharge Detection and Elimination	Update MS4 map with 100% of New Construction during the year	Met Goal.
2: Illicit Discharge Detection and Elimination	Conduct 1 IDDE training event per division with field crew/ year	Met Goal.
2: Illicit Discharge Detection and Elimination	Attend 25% of Task Force meetings	Exceeded Goal: Attended 100% (3 of 3) meetings.
2: Illicit Discharge Detection and Elimination	Provide list of IDDEs reported in annual report	Met Goal. See Attachment 2.
2: Illicit Discharge Detection and Elimination	Conduct at least 25 environmental audits/ year	Exceeded Goal: 63 environmental audits.
2: Illicit Discharge Detection and Elimination	Conduct at least 1 household hazardous waste event/ year	Met Goal.
3: Construction Site Stormwater Runoff Control	Perform 1 stormwater construction training event per year. Record any associated training attended.	Met Goal.
3: Construction Site Stormwater Runoff Control	Provide number of CSN and NOI provided to the City annually	Met Goal. See attachment 3.
3: Construction Site Stormwater Runoff Control	Conduct at least 12 construction site audits per year	Met Goal: 12 sites were audited
3: Construction Site Stormwater Runoff Control	Provide active construction site list with the annual report.	Met Goal. See attachment 4.

3: Construction Site Stormwater Runoff Control	Review 100% of plans each year and provide a list with the annual report.	Met Goal. See Attachment 5.
3: Construction Site Stormwater Runoff Control	Hold pre-construction meetings for 100% of projects. Provide a list with the annual report.	Met Goal. See Attachment 6.
4: Post-Construction Stormwater Management In New Development and Redevelopment	Conduct maintenance for 100% of city-owned BMPs, if required	Met Goal.
4: Post-Construction Stormwater Management In New Development and Redevelopment	Maintain an inventory of 100% of all newly constructed detention facilities	Met Goal.
4: Post-Construction Stormwater Management In New Development and Redevelopment	Maintain a map of Smartscape locations throughout the City	Met Goal.
4: Post-Construction Stormwater Management In New Development and Redevelopment	List of type and location of post-construction BMPs.	Met Goal.
4: Post-Construction Stormwater Management In New Development and Redevelopment	Provide map of all known constructed detention facilities with annual report.	Met Goal. See Attachment 7.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Conduct one audit of each "High Priority" facility per year	Met Goal. See Attachment 8.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Conduct 1 P2 training event per division with operations staff/ year	Met Goal.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Audit 100% of pollution prevention measures annually.	Met Goal.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Maintain a list of 100% of installed controls each year	Met Goal. See Attachment 9.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Conduct at least 400 storm sewer maintenance activities per year	Exceeded Goal: 887 Structures maintained.
5: Pollution Prevention and Good	Provide number of lane miles swept per year	Met Goal: Swept 14,131 lane miles.

Housekeeping for Municipal Operations		
TMDL	Provide SSOi annual report to the TCEQ	Met goal. See attachment 10.
TMDL	Provide a list OSSF issues within the City on an annual basis.	Met goal. See attachment 11.
TMDL	Provide number of waste haulers and number of manifests received annually.	Met goal. See attachment 12.
TMDL	Distribute outreach material to at least 33% of known animal livestock areas	Met goal.
pH	Provide resulting pH data to TCEQ	Met goal. See attachment 13.

### 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.?

See Attachment 1 for monitoring data collected during Permit Year 3.

Summary: The attached list (Attachment 1) of water quality sampling events during the Permit Year 3 time period (October 1, 2020 through September 30, 2021) show that the tested creeks within the City of Grapevine showed no impairment for the tested parameters during the sampling period. The City of Grapevine will continue administering the current Stormwater Monitoring Plan as is, due to the positive nature of the water quality within the City limits.

### D. Impaired Waterbodies

1. Identify whether an impaired water within the permitted area was added to the latest EPA-approved 303(d) list or 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 water body and the cause of impairment.

There are no newly listed impairments within the City of Grapevine's permitted area after review of the 2020 EPA approved 303(d) list or the 2020 Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d)

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.

The City of Grapevine has developed the following activities in order to address potential discharges to the following impaired waterbodies:

**Bacteria TMDL – 0841\_01 and 0841B – Lower West Fork Trinity River and Bear Creek**

BMP 1.7: Provide Stormwater Education Presentations in order to educate the Public on bacteria source reduction.

BMP 1.9: Conduct Environmental Audits in order to educate businesses/ industries/ contractors on bacteria source reduction.

BMP 2.4: Public reporting of IDDEs allows the MS4 to respond to potential illicit bacteria discharges.

BMP 2.6: Provide a HHW Program to provide the public with a venue for proper disposal of FOG (Fats, Oil, and Grease).

BMP TMDL-1: Participate in the SSOi program developed by the TCEQ in order to reduce the potential amount of bacteria contributed to these waterbodies from human activity (SSOs, in this case).

BMP TMDL-2: Review any complaints of OSSFs from information received from TCPH on an annual basis to reduce the potential amount of bacteria contributed to these waterbodies from human activity (OSSFs, in this case).

BMP TMDL-3: Track liquid waste haulers and businesses that require grease trap maintenance in order to reduce the number of SSOs contributed by these devices when left unmaintained.

BMP TMDL-4: Track large concentrations of animals in the City in order to educate owners on the potential bacteria contributions their animals may cause if left unattended.

**pH Impairment – 0826 – Grapevine Lake**

BMP pH-1: Monitor the pH levels of the 6 feeder streams to Grapevine Lake found within the City of Grapevine borders on a quarterly basis to ensure that the City is not contributing to the impairment.

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

The City of Grapevine is NOT a direct discharger to an impaired waterbody with an approved TMDL.

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

Since the City of Grapevine does not directly discharge to the Big Bear Creek/ Lower West Fork Trinity River TMDL, no benchmark for bacteria has been set by the MS4.

The benchmark for pH in the streams discharging to Grapevine Lake is between 5-9 su. See Attachment 13 for collected pH values for Permit Year 3.

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

The analysis of pH values from collected water quality data will allow the City to determine potential pollutant of concern sources should the benchmark value be exceeded during a given monitoring period.

Pollutant to Address	Description of Focused BMP	Comments/ Discussion
pH	Collect water quality data, specifically pH, on a quarterly bases from 6 feeder streams within the City.	The analysis of pH values from collected water quality data will allow the City to determine a potential pollutant of concern sources should the benchmark value be exceeded during a given monitoring period.

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

Not applicable. The City of Grapevine is NOT a direct discharger to an impaired waterbody with an approved bacteria TMDL.

7. Assess the progress to determine BMP’s effectiveness in achieving the benchmark.

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

- number of sources identified or eliminated;
- number of illegal dumpings;
- increase in illegal dumping reported;
- number of educational opportunities conducted;
- reductions in sanitary sewer flows (SSOs); /or
- increase in illegal discharge detection through dry screening.

Benchmark Indicator	Description/Comments
pH	PY 2021 pH testing of Creeks directly discharging to the impaired waterbody (Lake Grapevine) show no indication that they contribute to the pH impairment of that waterbody.

## E. Stormwater Activities

Describe activities planned for the next reporting year:

MCM(s)	BMP	Stormwater Activity	Description/Comments
1: Public Education, Outreach and Involvement	Stormwater Management Plan and Annual Report Availability	Post Year 2 Annual Report to City Website	The City of Grapevine current Stormwater Management Plan (SWMP) and associated Annual Reports will be made available for viewing via the City’s Website

			(www.grapevintexas.gov). The SWMP will be posted upon acceptance by the TCEQ and each annual report shall be posted upon acceptance by the TCEQ.
1: Public Education, Outreach and Involvement	Stormwater Website/ Newsletters/ Social Media	Update City website, newsletters and social media with stormwater material	The City of Grapevine will continue to update its website, newsletters, and social media with information pertaining to the prevention of stormwater pollution. Updates will consist of city specific and general stormwater education, as well as detailing outreach events that can affect stormwater issues.
1: Public Education, Outreach and Involvement	Participate in Stormwater Public Education Task Force	Attend Public Education Task Force Meetings.	The City of Grapevine will continue to participate in Public Education Task Force Meetings conducted by the North Central Texas Council of Governments. These meetings act as a round table for local participating governments to share ideas on stormwater education. Additionally, educational materials are distributed at events promoting environmental awareness messages.
1: Public Education, Outreach and Involvement	Community Volunteers	Utilize community volunteers in various events to reduce stormwater pollution.	The City of Grapevine will utilize community volunteers in various events that target stormwater pollution either directly or indirectly.
1: Public Education, Outreach and Involvement	Roadside Watershed Signs	Inspect installed signs for repair/ replacement.	The City of Grapevine will evaluate the current status of roadside watershed signs installed during previous permit terms. Signs will be inspected for damage and wear and will be repaired and/or replaced as necessary. Additionally, the storm drain system will be reviewed and new watershed signs will be placed in high visibility areas, as need.
1: Public Education, Outreach and Involvement	Storm Drain Marking	Inspect installed storm drain markers for damage. Replace as necessary.	The City of Grapevine will evaluate the current status of Storm Drain Markers installed during the previous permit term. Markers will be inspected for damage and wear and will be repaired and/or replaced as necessary. Markers will be placed on new inlets, as necessary.
1: Public Education, Outreach and Involvement	Stormwater Education Presentations	Stormwater related public education presentation.	The City of Grapevine will provide a presentation of stormwater related educational material to the public. This will include, at minimum, a display board incorporating stormwater

			information, handouts/ flyers, and someone familiar with stormwater to answer any questions. Bacteria TMDL Notes: These presentations will also focus on outreach and education for residents and businesses that may contribute animal source bacteria to stormwater, as well as addressing sources of Fats, Oils and Grease (FOG).
1: Public Education, Outreach and Involvement	Stream and Shoreline Cleanup	Stream and shoreline cleanup	The City of Grapevine will conduct stream and shoreline cleanups throughout the year in order to remove trash, litter, debris, etc. from local waterways using volunteers. Shoreline cleanups involve the public in cleaning and maintaining local waterways and removing potential pollutants from the stormwater system.
1: Public Education, Outreach and Involvement	Environmental Audits	Stormwater outreach material included with each environmental audit.	The City of Grapevine will conduct environmental audits of industrial locations, hotels, automotive locations, restaurant locations, construction sites and commercial properties. These audits will focus on pretreatment and stormwater aspects of the facility on which they are conducted. Bacteria TMDL Note: These industrial audits provide information on reducing issues with FOG and maintenance of grease/ grit traps for associated IDDEs.
2: Illicit Discharge Detection and Elimination	Maintain Up-to-Date MS4 Map	Update MS4 Map	The City of Grapevine will continue to update the MS4's map in GIS to include new and previously unrecognized storm drain infrastructure.
2: Illicit Discharge Detection and Elimination	City Field Staff IDDE Training	Train field staff in IDDE	The City of Grapevine will train its field staff in illicit discharge detection and elimination. Training will be conducted by qualified staff and will be provided on an annual basis. Sign-in sheets will be maintained as a record of each training event.

2: Illicit Discharge Detection and Elimination	Participate in the Illicit Discharge Detection and Elimination Task Force	Participate in the NCTCOG IDDE Task Force	To stay up-to-date and maintain contacts within the stormwater industry, particularly with IDDE.
2: Illicit Discharge Detection and Elimination	Public Reporting of IDDE	Track public reporting of IDDE	The City of Grapevine will continue to track all IDDE events reported to the municipality via its Cartegraph database system (or any future data management system). Reports from city staff, residents, visitors and businesses will be tracked and responded to accordingly. Bacteria TMDL Note: Reporting of SSOs will be included in the IDDE reporting for improved reporting purposes.
2: Illicit Discharge Detection and Elimination	Environmental Audits	Stormwater outreach material included with each environmental audit.	The City of Grapevine will conduct environmental audits of industrial locations, hotels, automotive locations, restaurant locations, and commercial properties. These audits will focus on pretreatment and stormwater aspects of the facility on which they are conducted. These audits also review grease/ grit trap condition and maintenance.
2: Illicit Discharge Detection and Elimination	Household Hazardous Waste Program	Provide an event allowing proper disposal of household hazardous waste for residents.	The City of Grapevine will host an annual Household Hazardous Waste collection event to allow the residents of Grapevine to safely and effectively manage the disposal of hazardous waste that may otherwise be improperly disposed of, creating the potential to pollute to stormwater.
3: Construction Site Stormwater Runoff Control	Staff Construction Site Stormwater Training	Train applicable staff in stormwater construction requirements	Conduct training for municipal staff involved in inspecting any type of construction activity within the MS4. Training will be conducted by qualified personnel. Training will focus on the on stormwater issues as they relate to construction sites.
3: Construction Site Stormwater Runoff Control	CSN and NOI Tracking	Maintain all CSN and NOI delivered to the City on file.	The development and maintenance of a construction site inventory through the

			tracking of CSN and NOI received by the municipality. Inspection records and visual observations will also be used to maintain a current inventory of construction activity in the MS4.
3: Construction Site Stormwater Runoff Control	Construction Site Erosion and Sediment Control Audits	Construction site erosion and sediment control audits.	The City's Environmental Services Division will conduct erosion and sediment control audits of random construction sites within the MS4. Audits will verify the site's compliance with the Construction General Permit and focus on the site's compliance with erosion and sediment control standards. These audits will be in addition to standard construction site inspection conducted by the City's Engineering Division.
3: Construction Site Stormwater Runoff Control	Active Construction Site Inventory	Maintain an electronic construction site inventory.	Maintaining an active inventory of all active construction sites in the MS4. This inventory will include all constructions sites in any phase of construction from grading to the issuance of the Certificate of Occupancy.
3: Construction Site Stormwater Runoff Control	Review of Erosion and Sediment Control Plans	Maintain an electronic construction site sediment control plan list.	Review of all erosion and sediment control plans by qualified personnel as part of pre-construction requirements, including determination of potential water quality impacts.
3: Construction Site Stormwater Runoff Control	Pre-Construction Meetings	Develop and maintain an electronic pre-construction meeting list.	Host Pre-Construction meetings with contractors/ property owners and present erosion and sediment control requirements and expectations.
4: Post-Construction Stormwater Management In New Development and Redevelopment	Post-Construction BMP Maintenance	Maintenance of City-owned BMPs.	Maintenance of a comprehensive post-construction BMP inventory and maintenance schedule for those BMPs that are City-owned and/ or operated. Conduct maintenance on and maintain records for City owned BMPs.
4: Post-Construction Stormwater Management In New	Post-Construction BMP Inventory	Add notes to plat requiring private owners to provide annual inspection/ maintenance of privately owned detention facilities..	The maintenance of a comprehensive post-construction BMP inventory and maintenance schedule for those BMPs that are part of

Development and Redevelopment			new construction and privately owned and/ or operated. Tracking of any violations or enforcement actions electronically.
4: Post-Construction Stormwater Management In New Development and Redevelopment	Smartscape	Identify existing and new Smartscape locations throughout the City.	To encourage the use of Texas native plants in City development projects.
4: Post-Construction Stormwater Management In New Development and Redevelopment	Construction Site Plan Review	List of all plans reviewed and note of type and location of post-construction BMPs.	Review of construction site plans for locations of new post-construction BMPs, making sure the City is aware of the type and location of post-construction BMPs located within its MS4.
4: Post-Construction Stormwater Management In New Development and Redevelopment	Post-Construction BMP Map	Maintain a map of all known constructed detention facilities.	The development and maintenance of a comprehensive post-construction BMP map of all know publically and privately owned BMPs.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	City Facility Pollution Prevention Audits	Inspect "High Priority" facilities.	Maintain an inventory and map of all City-owned and operated facilities. Determine those facilities are "High Priority" with respect to potential stormwater issues. Audit those "High Priority" facilities for P2 compliance. Assess facilities on a regular basis to determine potential additions to the "High Priority" list. Develop facility specific stormwater Pollution Prevention BMPs for each "High Priority" facility

5: Pollution Prevention and Good Housekeeping for Municipal Operations	Pollution Prevention Training	Train operations staff in P2.	To provide staff involved in daily operations with adequate P2 training to prevent stormwater related issues at the City's various facilities and properties. Training will be specific to the department/division. Training will be conducted by a member of the Environmental Services Division and records of attendance will be kept on file.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Municipal Operations and Maintenance Assessment	Monitor pollution prevention measures enacted.	To audit and assess current municipal operations for potential stormwater pollution issues. Review current Tier II reports and departmental MSDS for potential pollutants of concern. Develop and implement pollution prevention measures for municipal activities. Audit activities for compliance with pollution prevention measures. Dispose of waste properly and safely, as necessary.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Stormwater Controls for High Priority Facilities	Determine if new controls are required. Install stormwater controls, as necessary.	Maintain a list of stormwater controls at each of the listed facilities. Determine whether new controls are required for each facility. If new controls are deemed necessary, install those controls. Refer to BMP 5.1 for the determination of "High Priority" facilities.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Storm Sewer System Operation and Maintenance	Perform storm sewer maintenance activities.	To inspect, document and maintain storm sewer structures and infrastructures to prevent and/or address issues with stormwater transport within the MS4. Identify problem areas or areas with recurring issues. Maintain stormwater BMPs for proper function.
5: Pollution Prevention and Good Housekeeping for Municipal Operations	Pollutant Reduction from Road Maintenance and Operations	Street Sweeping of all City streets.	Provide street sweeping for all accessible streets and parking lots in the MS4 in order to remove potential pollutants, including trash and litter from the swept area. An SOP describing focus and frequency

			will be developed and kept on file by the City
TMDL	Participation in TCEQ SSOi Program	Continued participation in the SSOi program.	To continue the City's participation in TCEQ's SSOi program, which includes details about the City's improvements to sanitary lines to reduce overflows, addressing of lift station inadequacies and strengthening of sanitary use requirements.
TMDL	On-Site Sewage Facilities	Contact TCPH for a list of OSSF issues within the City.	Utilize Tarrant County Public Health (the OSSF Authority for this MS4) as a resource for identifying and addressing failing septic systems and addressing inadequate maintenance of OSSFs. Contact TCPH annually for a list of OSSFs and issue status of those OSSFs, as applicable.
TMDL	Liquid Waste Hauling	Electronically record all liquid waste hauler manifests received by the City.	The MS4 will maintain electronic records of all liquid waste hauling manifests received by the City.
TMDL	Pet/ Animal Waste Management	Distribute outreach material to at least 33% of known animal livestock areas	In order to reduce the contribution of potential bacteria impairment within the MS4, the MS4 will locate and educate locations with high densities of pets or stock animals about ways to reduce animal waste from becoming an issue.
pH	Water Quality Impairment	Continue quarterly pH monitoring of 6 creeks discharging to segment 0826.	To monitor pH levels in the 6 larger creeks within the MS4 (Jones Branch, Dove Branch, Morehead Branch, Farris Branch, Cable Branch, and Silver Lake Branch) feeding in to Grapevine Lake (Segment 0826) on a quarterly basis to determine if the MS4 is contributing to this waterbodies impairment. Develop BMPs and measurable goals should this be determined.

## F. SWMP Modifications

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:

<b>MCM(s)</b>	<b>Measurable Goal(s) or BMP(s)</b>	<b>Implemented or Proposed Changes (Submit NOC as needed)</b>
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.

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

N/A

### **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.

<b>BMP</b>	<b>Description</b>	<b>Implementation Schedule (start date, etc.)</b>	<b>Status/Completion Date (completed, in progress, not started)</b>
N/A			

### **H. Additional Information**

1. Is the permittee relying on another entity to satisfy any permit obligations?

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:

North Central Texas Council of Governments (NCTCOG). According to its SWMP, Grapevine must attend at least 25% of both the Public Education Task Force Meetings (BMP 1.1) and the Illicit Discharge Detection and Elimination Task Force Meetings (BMP 2.3) held by NCTCOG during the fiscal year.

Name and Explanation:

Tarrant County Public Health (TCPH). According to its SWMP, Grapevine must utilize TCPH (the OSSF Authority for this MS4) as a resource for identifying and addressing failing septic systems and addressing inadequate maintenance of OSSFs (BMP TMDL-2) by contacting TCPH annually for a list of OSSFs and issue status of those OSSFs as applicable.

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 (Large and Small Site Notices submitted by construction site operators):

0/2

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

Yes  No

2b. If "yes," then provide the following information for this permit year:

<b>The number of municipal construction activities authorized under this general permit</b>	
---	--

The total number of acres disturbed for municipal construction projects	N/A
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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

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).

*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): Keith Miertschin Title: Asst. Director Public Works - Operations

Signature:  Date: 12-16-2021

Name of MS4 City of Grapevine

**If you have questions on how to fill out this form or about the Stormwater Permitting program, please contact us at 512-239-4671.**

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512-239-3282.

## Attachment 1

Water Quality Data Collected  
10/01/2020 through 9/30/2021

Creek Name	Major Drain	Season	Permit Year	Date Sampled	Time	Sampled Ex	Ar Temp	Weather	Conditions	Stream Flow	Water Col	Temp (C)	Temp (F)	pH	ba/d	dir	(NTU)	DO (mg/L)	Cond (us)	chl (ppm)	DS (mg/L)	322 (mg/L)	Col (mg/L)	ent (mg/L)	red (mg/L)	line (mg/L)
Creek 21	BBC	Fall	2021	11/17/2020	14:20	G Moss	23.93	29.90	70.17	21	Clear	Dry	19.0	8	8.2	0	9.3	10.20	0.5	612	ND	ND	ND	ND	<0.1	
Creek 17	BBC	Fall	2021	11/17/2020	11:20	G Moss	24.00	71.6	70.18	22	Clear	Normal	18.0	8	8.2	0	8.4	10.95	0.53	657	ND	ND	ND	ND	<0.1	
Creek 16	BBC	Fall	2021	11/17/2020	15:50	G Moss	23.93	87.0	70.18	22	Clear	Normal	18.2	8.4	8.3	0	8.6	11.10	0.54	666	ND	ND	ND	ND	<0.1	
Creek 19	BBC	Fall	2021	11/17/2020	13:00	G Moss	23.91	7.86	70.18	22	Clear	Normal	18.2	8.4	8.3	0	8.6	11.10	0.54	666	ND	ND	ND	ND	<0.1	
Creek 20	BBC	Fall	2021	11/17/2020	13:20	G Moss	23.93	82.8	70.18	22	Clear	Normal	18.1	8.3	8.3	0	8.3	10.72	0.52	647	ND	ND	ND	ND	<0.1	
Creek 14	BBC	Fall	2021	11/17/2020	13:40	G Moss	23.97	1.52	70.13	22	Clear	Normal	17.8	8.3	8.3	0	8.3	10.75	0.53	645	ND	ND	ND	ND	<0.1	
Big Bear Creek	BBC	Fall	2021	11/17/2020	10:40	G Moss	23.90	11.7	70.13	22	Clear	Normal	19.0	8.3	8.3	0	8.5	10.75	0.53	645	ND	ND	ND	ND	<0.1	
Upper Tributary Little Bear Creek	BBC	Fall	2021	11/17/2020	11:00	G Moss	23.88	50.7	70.13	22	Clear	Normal	20.9	8.2	8.2	0	8.8	12.25	0.57	435	ND	ND	ND	ND	<0.1	
Collinswood Branch	BBC	Fall	2021	11/16/2020	12:30	G Moss	23.92	0.79	70.08	21	Clear	Normal	18.1	8.2	8.2	0	7.6	12.73	0.63	75.1	ND	ND	ND	ND	<0.1	
Hillier Branch	BBC	Fall	2021	11/16/2020	13:00	G Moss	24.17	1.76	70.31	24	Clear	Normal	19.6	8.3	8.3	0	8.6	7.43	0.58	446	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Fall	2021	11/16/2020	13:30	G Moss	24.12	1.77	70.41	24	Clear	Normal	20.0	8.2	8.2	0	10.1	7.25	0.54	435	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Fall	2021	11/16/2020	14:00	G Moss	24.11	1.97	70.40	24	Clear	Dry	19.5	7.9	8.0	0	9.1	7.55	0.57	403	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Fall	2021	11/16/2020	14:30	G Moss	24.05	9.2	70.33	24	Clear	Normal	22.9	8.1	8.1	0	8.1	28.19	1.82	1725	ND	ND	ND	ND	<0.1	
Marshall Branch	BBC	Fall	2021	11/16/2020	14:50	G Moss	24.03	1.6	70.33	24	Clear	Normal	23.2	8.1	8.1	0	10.2	6.97	0.42	527	ND	ND	ND	ND	<0.1	
Dove Branch	BBC	Fall	2021	11/16/2020	14:30	G Moss	24.03	1.63	70.33	24	Clear	Normal	22.2	8.0	8.0	0	8.5	9.75	0.48	992	ND	ND	ND	ND	<0.1	
Dove Branch	BBC	Fall	2021	11/16/2020	15:20	G Moss	23.92	8.74	70.33	24	Clear	Normal	22.4	8.4	8.4	0	8.9	9.72	0.44	544	ND	ND	ND	ND	<0.1	
Dove Branch	BBC	Fall	2021	11/16/2020	15:40	G Moss	23.95	6.92	70.33	25	Clear	Stratling	22.4	8.4	8.4	0	8.0	8.13	0.48	535	ND	ND	ND	ND	<0.1	
Creek 23	BBC	Winter	2021	2/24/2021	14:10	G Moss	23.93	82.80	70.17	20	Clear	Dry	13.6	8	8.1	0	8.4	9.03	0.5	594	ND	ND	ND	ND	<0.1	
Creek 21	BBC	Winter	2021	2/24/2021	9:20	G Moss	24.00	7.75	70.18	17	Clear	Normal	16.4	8.6	8.6	0	1.2	8.43	0.47	565	ND	ND	ND	ND	<0.1	
Creek 17	BBC	Winter	2021	2/24/2021	13:45	G Moss	23.93	8.70	70.16	19	Clear	Normal	16.4	8.6	8.6	0	5.7	10.20	0.51	612	ND	ND	ND	ND	<0.1	
Creek 16	BBC	Winter	2021	2/24/2021	13:15	G Moss	23.97	0.98	70.16	19	Clear	Normal	20.1	7.8	7.8	0	10.3	10.20	0.51	612	ND	ND	ND	ND	<0.1	
Creek 19	BBC	Winter	2021	2/24/2021	10:50	G Moss	23.93	82.8	70.14	19	Clear	Normal	16.4	8.6	8.6	0	10.3	10.26	0.51	615	ND	ND	ND	ND	<0.1	
Creek 20	BBC	Winter	2021	2/24/2021	15:00	G Moss	23.97	1.92	70.33	15	Clear	Normal	16.1	8.3	8.3	0	9.0	10.15	0.51	609	ND	ND	ND	ND	<0.1	
Creek 12	BBC	Winter	2021	2/24/2021	8:55	G Moss	23.90	11.7	70.16	15	Clear	Normal	15.4	8.3	8.3	0	8.3	12.18	0.61	529	ND	ND	ND	ND	<0.1	
Upper Tributary Little Bear Creek	BBC	Winter	2021	2/24/2021	9:50	G Moss	23.92	9.07	70.33	17	Clear	Normal	12.9	8.5	8.5	0	10.1	8.76	0.44	526	ND	ND	ND	ND	<0.1	
Collinswood Branch	BBC	Winter	2021	2/24/2021	10:20	G Moss	24.11	1.59	70.33	23	Clear	Normal	14.9	8.5	8.5	0	8.3	9.92	0.46	551	ND	ND	ND	ND	<0.1	
Hillier Branch	BBC	Winter	2021	2/23/2021	12:25	G Moss	24.11	1.59	70.33	23	Clear	Normal	13.8	8.5	8.5	0	11.7	5.92	0.29	395	ND	ND	ND	ND	<0.1	
Hillier Branch	BBC	Winter	2021	2/23/2021	15:50	G Moss	24.14	5.55	70.33	25	Clear	Normal	18.0	8.2	8.2	0	10.9	4.10	0.2	241	ND	ND	ND	ND	<0.1	
Upper Tributary Little Bear Creek	BBC	Winter	2021	2/23/2021	13:50	G Moss	24.11	1.57	70.33	18	Clear	Dry	16.0	8.2	8.2	0	10.9	4.10	0.2	241	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	11:10	G Moss	24.05	6.7	70.33	16	Clear	Normal	15.6	8.3	8.3	0	9.3	13.21	0.67	792	ND	ND	ND	ND	<0.1	
Farris Branch	BBC	Winter	2021	2/23/2021	10:15	G Moss	24.01	6.66	70.33	16	Clear	Normal	15.4	8.1	8.1	0	9.5	4.72	0.51	285	ND	ND	ND	ND	<0.1	
Marshall Branch	BBC	Winter	2021	2/23/2021	10:40	G Moss	24.03	1.63	70.33	16	Clear	Normal	15.2	8.1	8.1	0	9.1	4.66	0.21	251	ND	ND	ND	ND	<0.1	
Upper Tributary Little Bear Creek	BBC	Winter	2021	2/23/2021	8:20	G Moss	23.92	9.74	70.33	16	Clear	Normal	15.3	8.3	8.3	0	9.7	4.26	0.2	255	ND	ND	ND	ND	<0.1	
Dove Branch	BBC	Winter	2021	2/23/2021	9:45	G Moss	23.95	9.92	70.33	16	Clear	Normal	15.6	8.3	8.3	0	9.5	4.45	0.2	267	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	15:05	G Moss	23.93	8.90	70.17	26	Partly Cloudy	Normal	24.7	7.6	7.6	0	8.6	9.28	0.53	596	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	13:30	G Moss	24.00	7.18	70.19	26	Partly Cloudy	Normal	24.5	7.9	7.9	0	8.6	9.41	0.51	604	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	13:20	G Moss	23.98	7.0	70.17	26	Partly Cloudy	Normal	25.0	7.4	7.4	0	8.9	8.70	0.48	492	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	14:35	G Moss	23.91	0.98	70.16	26	Partly Cloudy	Dry	24.3	7.9	8.0	0	8.6	8.60	0.5	513	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	15:05	G Moss	23.91	0.98	70.16	26	Partly Cloudy	Dry	25.2	8.3	8.3	0	8.8	9.00	0.52	540	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	15:25	G Moss	23.97	1.52	70.16	26	Partly Cloudy	Normal	24.5	8.1	8.1	0	8.7	11.13	0.54	612	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	15:45	G Moss	23.91	0.98	70.16	26	Partly Cloudy	Normal	24.8	8.2	8.2	0	8.9	8.00	0.48	480	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	16:05	G Moss	23.92	0.79	70.16	26	Partly Cloudy	Normal	24.1	7.8	7.8	0	8.9	8.00	0.48	480	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	16:25	G Moss	23.92	0.79	70.16	26	Partly Cloudy	Normal	25.0	8.5	8.5	0	8.6	7.98	0.48	478	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	16:45	G Moss	24.17	7.85	70.33	27	Cloudy	Normal	25.0	8.5	8.5	0	7.6	8.50	0.56	510	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	15:10	G Moss	24.14	9.57	70.41	27	Cloudy	Normal	24.6	8.4	8.4	0	8.1	9.20	0.53	55.2	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	2/23/2021	14:40	G Moss	24.11	1.57	70.38	27	Cloudy	Dry	25.6	8.3	8.3	0	8.1	5.00	0.25	300	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	6/3/2021	14:25	G Moss	24.05	6.7	70.30	27	Cloudy	Normal	24.5	8.5	8.5	0	7.9	21.00	1.07	1285	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	6/3/2021	13:35	G Moss	24.01	6.55	70.33	27	Cloudy	Lake	27.0	7.8	7.8	0	10.2	4.20	0.2	28.2	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	6/3/2021	13:55	G Moss	24.03	1.63	70.33	27	Cloudy	Lake	27.0	8.1	8.1	0	6.8	10.6	0.21	256	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	6/3/2021	14:15	G Moss	23.92	0.79	70.33	27	Cloudy	Lake	27.5	8.3	8.3	0	10.5	4.40	0.21	264	ND	ND	ND	ND	<0.1	
Carle Branch	BBC	Winter	2021	6/3/2021	14:35	G Moss																				

## Attachment 2

### List of Reported IDDEs

10/01/2020 through 9/30/2021



**MEMORANDUM**

**City of Grapevine, TX**

**TO:** *File*

**FROM:** *Gregg Moss, Environmental Specialist*

**SUBJECT:** *BMP 2.4 Public Reporting of IDDE*

**DATE:** *October 1, 2020*

*(Last update: September 30, 2021)*

**Project Description:** The City of Grapevine will continue to track all IDDE events reported to the municipality via its Cartegraph database system (or any future data management system). Reports from city staff, residents, visitors and businesses will be tracked and responded to accordingly. **Bacteria TMDL Note:** Reporting of SSOs will be included in the IDDE reporting for improved reporting purposes.

**Objective:** To maintain a record of the number of and responses to IDDE events within the MS4.

**Activity to Implement:** Track public reporting of IDDE.

**Measurable Goal:** Provide list of IDDEs reported in annual report.

Number of illicit discharges detected and resolved for PY 2021: 46

Activity	Q1	Q2	Q3	Q4	PY 2020
Illicit Discharge	1		1	2	4
Pool Discharge			3	1	4
Potable Water Release	8	6		2	16
Sanitary Sewer Overflow	4	6		2	12
Spills	1		1	3	5
SSR Truck Leaks				1	2
T/R Truck Leaks	1		2		3
Total	15	12	7	11	46

Activity	AddressNumber	Street	StartDate	StopDate	Notes
Illicit Discharge	2804	HIGH POINT CT	9/8/2020	10/26/2020	Issued NOV to Concrete-Magic.com (Fred Arnoldt, 817-251-1295, 2312 Still Point Ln, Colleyville 76034) doing work at 2804 High Point Ct. for discharging slurry to the MS4. Material was removed. spoke with the owner of the company in person about the cleanup and discharge on 10/26/2020. Satisfied the requirements of the NOV.
Potable Water Release	2423	TANGLEWOOD DR	10/18/2020	10/19/2020	Loss of approximately 36,000 gallons of potable water to the Beg Bear Creek watershed. Dechlorination occurred upon arrival. No effects to the receiving water observed or expected. No report to TCEQ required.
Potable Water Release	1111	BALL ST	10/19/2020	10/19/2020	Loss of approximately 17,000 gallons of potable water to the Morehead Branch watershed. Dechlorination occurred upon arrival. No effects to the receiving water observed or expected. No report to TCEQ required.
Potable Water Release	3800	FAIRWAY DR	10/21/2020	10/21/2020	Loss of 500 gallons of potable water due to contractor strike on main. Did not enter stormdrain system. No TCEQ report required.
Sanitary Sewer Overflow	2340	DOVE RD	10/22/2020	10/22/2020	Level indicator failure caused a backup in the system resulting in overflows at two manholes. A total loss of 43,000 gallons of raw sewage, partially to Jones Branch causing a fish kill. Loss of approximately 350 fish. TPWD and TCEQ notified on 10-22-2020. TCEQ Aquatic Scientist responded the afternoon of 10-22-2020. 5-Day report sent 10-26-2020.
Sanitary Sewer Overflow	734	BEAR RUN DR	10/31/2020	10/31/2020	Loss of 2-3 gallons of raw sewage due to main blockage. Did not enter storm drainage. Placed back in system. TCEQ notified.
Potable Water Release	500	POST OAK RD	11/3/2020	11/3/2020	Loss of < 10,000 gallons of potable water due to contractor strike on main. No adverse effect expected or observed on drainage. Not required to file TCEQ report.
T/R Truck Leaks	3409	HERITAGE OAK CT	11/20/2020	11/20/2020	Trash truck left oil in street, needs cleaned up. Route Supervisor was notified about complaint. Cleaning was scheduled to clean up spill on Friday, 11/20/2020.
Potable Water Release	912	W NORTHWEST HWY	11/25/2020	11/25/2020	Loss of ~16,000 Gallons of potable water from a main break. Discharged to Morehead Branch. Dechlorination started immediately upon arrival. No environmental effects observed or expected.
Potable Water Release	2301	WILLIAM D TATE AVE	12/2/2020	12/2/2020	Water Main Break due to contractor boring at Honda of Grapevine construction site. Loss of approximately 750 gallons of potable water. Dechlorination initiated upon arrival. No environmental effects observed or expected.
Potable Water Release	2348	GRAYSON DR	12/7/2020	12/7/2020	Loss of ~7,200 gallons of potable water due to contractor strike on main. dechlorination began upon arrival. No environmental impacts expected or observed.
Potable Water Release	125	SATINWOOD	12/10/2020	12/10/2020	Release of 21,000 gallons of potable water due to tap saddle break. Dechlorination started upon arrival. No environmental effects observed or expected.
Sanitary Sewer Overflow	1934	SHOREWOOD DR	12/15/2020	12/15/2020	Loss of ~1,200 gallons from manhole due to blockage in line at listed address. Blockage cleared. No environmental impact expected or observed. Reported to TCEQ 12/15/2020.
Spills	1001	NOLEN DR	12/17/2020	12/18/2020	Received a complaint from the resident at 3174 Stone Creek Ln reporting Creek 17 behind his house had higher than normal flow and off-colored water. After an investigation of the creek and corresponding with Utilities, it was determined that the source of the discharge was a 40,000 gallon potable water/ fire line leak at 1001 Nolen Dr the previous night. No environmental issue expected or observed.
Sanitary Sewer Overflow	1500	CIMARRON TRL	12/29/2020	12/30/2020	Loss of <4,000 gallons of sewage from a force main break Entered tributary of Jones Branch. No environmental issue expected or observed. TCEQ was notified.
Sanitary Sewer Overflow	851	LOVERS LN	1/5/2021	1/5/2021	Loss of ~100 gallons of liquid sewage from manhole at this address due to line blockage. Blockage cleared. No environmental issue observed or expected. TCEQ notified.
Sanitary Sewer Overflow	1101	WOODBRIAR DR	1/8/2021	1/8/2021	Loss of ~100 gallons of sewage due to clog in line. Clog cleared. No environmental issues observed or expected. TCEQ notified.
Sanitary Sewer Overflow	2400	DOVE RD	1/14/2021	1/15/2021	Loss of <25 gallons of liquid sewage. Small amount entered MS4 (Jones Branch). Vac Truck cleaned. No environmental issues observed or expected. TCEQW notified.
Sanitary Sewer Overflow	1913	WOOD CREEK DR	2/4/2021	2/5/2021	Release of approximately 2,150 gallons of liquid sewage from manhole to Creek 14 drainage due to grease blockage. Blockage cleared. Area cleaned. No environmental issues observed or expected. TCEQ was notified.
Potable Water Release	1002	W WALL ST	2/15/2021	2/15/2021	Loss of ~2,250 gallons of potable water due to service line failure. Small amount drained to Morehead Branch. No environmental effects expected. No State notification required.
Potable Water Release	4001	CORPORATE DR	2/15/2021	2/15/2021	Loss of ~12,000 gallons of potable water due to main break. Some amount may have entered Denton Creek. No environmental issue expected. No State notification required.

Sanitary Sewer Overflow	1022 MEADOW BEND LOOP NORTH	2/16/2021	2/16/2021	Loss of 15 gallons of liquid sewage due to line blockage. Loss froze to ground. Line cleared. No environmental issue expected. TCEQ notified.
Potable Water Release	420 E COLLEGE ST	2/18/2021	2/18/2021	Loss of approximately 26,250 gallons of potable water release due to pipe failure. Dechlorination started upon arrival. No environmental effects expected. TCEQ notified due to volume and freezing conditions.
Sanitary Sewer Overflow	202 E NORTHWEST HWY	2/27/2021	3/1/2021	Loss of 2 gal of sewage due to grease blockage. Did not enter MS4. No environmental effects expected or observed. TCEQ notified. Restaurant will be inspected for FOG practices.
Potable Water Release	410 CRESTVIEW DR	3/19/2021	3/20/2021	Loss of approximately 18,000 gallons of potable water due to a cracked pipe. Dechlorination began upon arrival. Discharged to Farris Branch Watershed. No environmental issues observed or expected. No State notification required.
Potable Water Release	4265 TRADE CENTER PKWY	3/25/2021	3/25/2021	Loss of ~20,000 gallons of potable water due to structural failure of a fire hydrant. No environmental issues observed or expected. No State reporting required.
Pool Discharge	4026 WELLINGTON LN	3/30/2021	4/2/2021	Issued pool letter to residents at listed address for pool discharge to back of property.
Potable Water Release	1815 SANDALWOOD LN	3/30/2021	3/30/2021	Potable Water Release of 4,500 gallons due to blown saddle. Dechlorination began upon arrival. No environmental issues observed or expected. No State report required.
T/R Truck Leaks	2717 CHATSWORTH DR	4/7/2021	4/7/2021	Resident called to complain about some oil or trash juice spots on street in his neighborhood after trash was collected on Tuesday. Route Supervisor was notified about complaint and sent crew out to clean up spill.
T/R Truck Leaks	2719 MAGNOLIA CT	4/12/2021	4/12/2021	Glass & Stains left in street by trash truck in hole neighborhood. Needs to be cleaned up. Route Supervisor was notified about complaint and scheduled clean up crew to clean up spill.
Pool Discharge	4710 BRIARCROFT DR	5/20/2021	5/21/2021	Notified by Code compliance. Sent pool letter to resident.
Spills	1500 E STATE HWY 114	5/31/2021	5/31/2021	ESD called out by dispatch due to MVA causing loss of ~80 gallons of diesel fuel. Torrential downpours at time of response. TxDOT was notified of incident and ESD remained on site until their arrival for transfer of scene. Unable to capture or collect loss due to the conditions at the time. Receiving water monitored for ill effects, none observed.
Illicit Discharge	3489 STATE HWY 121	6/4/2021	6/14/2021	Issued a NOV to Clyde Riggs Construction on 6/4/2021 for tracking, illicit discharge of sediment to storm drain inlet, non-functional construction entrances, and no BMP for sediment near channel. Received response on 6/14/2021. Items adequately addressed.
SSR Truck Leaks	2966 WOODLAND HILLS DR	6/11/2021	6/11/2021	Resident called and said just about an hour ago there was a Republic trash truck that broke down in front of his house and spilled hydraulic fluid all over the street. Truck is gone now but he just wanted to make sure someone was going to come back out and clean it. I assume this is Republic's responsibility but let me know if you want me to report it elsewhere. Thanks! 2966 Woodland Hills Dr Paul Allen 817-455-4097
Pool Discharge	2812 TIMBER HILL DR	6/24/2021	6/24/2021	RSG sent a cleanup crew to remove the spilled contents. Notified by a resident that a pool company was discharging a pool to the MS4. Company and resident were notified of City pool discharge rules and discharge was discontinued.
Illicit Discharge	3489 STATE HWY 121	6/30/2021	7/1/2021	Received a complaint of lime being tracked from site due to tracking through lime stabilization portion of the project. Superintendent was notified and lime was cleared from roadway within 24-hrs.
Sanitary Sewer Overflow	210 PARK BLVD	7/6/2021	7/7/2021	Loss of 750 gallons to dry drainage. Vacc'ed out and cleaned. Reported to TCEQ.
Spills	129 S MAIN ST	7/16/2021	8/9/2021	Spill of ~5 gallons of cooking oil by Cotton Patch Restaurant employee to private and public ROW. Insufficient cleaning attempt by Cotton Patch of site. Manager on duty at 1030 am was to forward Cotton Patch contact and cleaning company to revisit cleaning of the site. No response as of 16:00 on 7/15/2021. Cotton Patch had power washed and collected residue on 3 occasions, as well as cleaning the enclosure on-site. No stormwater issue at any time, more aesthetics. Left to code compliance. Closed Notifying Code Compliance to progress with NOV to Cotton Patch to have the site cleaned.

Pool Discharge	2662 PINEHURST DR	7/21/2021	7/21/2021	Code Enforcement issued Citation to Grapevine Pools for discharging pool plaster water into curb and gutter system in front of property. Most of plaster was contained in 250-gallon tank on property located in front yard next to sidewalk. Some residual material was found on sidewalk at driveway approach. James Adams Code Enforcement Officer had crew clean up material and patch leak in tank to stop discharge.
Illicit Discharge	3489 STATE HWY 121	8/18/2021	9/15/2021	NOV issued to Clyde Riggs Construction due to sediment runoff on to Kubota Dr and failure to re-establish BMPs that had been removed from site. Pending cleanup and response. Cleanup was conducted the next day. Response to NOV was received after a 2nd notice was delivered.
Spills	944 JEAN ST	8/27/2021	8/27/2021	3 gallon bucket of used motor oil spilled to street. Did not enter storm drain system. Cleaned by GPV Streets Dept.
Potable Water Release	3600 WILLIAM D TATE AVE	9/8/2021	9/10/2021	Loss of approximately 100,000 gallons of potable water to Big Bear Creek due to pipe failure. Creek was monitored for >48 hours after the event. No adverse effects were observed. Reported to TCEQ as a "just in case" scenario.
Illicit Discharge	2300 TIMBERLINE DR	9/13/2021	9/24/2021	Received a call about private SSO at Bristol Apts. Arrived with Code Enforcement and observed sewage discharging from a cleanout into parking area. An unknown amount was lost. Management has hirede a plumber to fix the issue, but they had been unsuccessful at stopping the release and/or finding the source. Management was notified that the discharge must be stopped immediately and the lost material collected and disposed of. Management acquired the services of Belfor Property Restoration to complete the cleanup of the property.
Potable Water Release	2300 TIMBERLINE DR	9/13/2021	9/17/2021	During complaint regarding a private SSO, A water leak was also observed. Leak was reported to Utilites who discovered a main leak and leak at the meter. These items were corrected by Utilities.
Spills	604 S MAIN ST	9/14/2021	9/14/2021	Apparent cooking oil spill on Main St, possibly from trash truck. Cleaned by streets crews. Nothing entered storm drain system.
Sanitary Sewer Overflow	2432 BRITTANY LN	9/21/2021	9/24/2021	Complaint was about the issue at 2300 Timberline (Bristol Apts.). This issue has been adressed (see entry).

## Attachment 3

Number of CSN and NOI Provided to the City Annually  
10/01/2020 through 9/30/2021



**MEMORANDUM**

**City of Grapevine, TX**

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**TO:** *File*

**FROM:** *Gregg Moss, Environmental Specialist*

**SUBJECT:** *BMP 3.2 CSN and NOI Tracking*

**DATE:** *October 1, 2020*

*(Last update: September 30, 2021)*

---

**Project Description:** The development and maintenance of a construction site inventory through the tracking of CSN and NOI received by the municipality. Inspection records and visual observations will also be used to maintain a current inventory of construction activity in the MS4.

**Objective:** Tracking of CSN and NOI received by the MS4.

**Activity to Implement:** Maintain all CSN and NOI delivered to the City on file.

**Measurable Goal:** Provide number of CSN and NOI provided to the City annually.

# of CSN – Small Site received during permit year: 2

# of CSN – Large Site received during permit year: 0

Small site CSN received for:

Wildwood Crossing Subdivision – 900 Wildwood Ln

Riverside Veterinary Clinic – 3985 Grapevine Mills Pkwy

Large site CSN received for: N/A

## Attachment 4

### Inventory of Active Construction Sites as of 9/30/2021



**MEMORANDUM**

**City of Grapevine, TX**

**TO:** *File*

**FROM:** *Gregg Moss, Environmental Specialist*

**SUBJECT:** *BMP 3.4 Active Construction Site Inventory*

**DATE:** *October 1, 2020*

*(Last update: September 30, 2021)*

**Project Description:** Maintaining an active inventory of all active construction sites in the MS4. This inventory will include all constructions sites in any phase of construction from grading to the issuance of the Certificate of Occupancy.

**Objective:** To ensure the MS4 maintains and recognizes the active construction sites in its jurisdiction. This list will provide the MS4 with a list of potential pollutant contributors to its stormwater system.

**Activity to Implement:** Develop and maintain an electronic construction site inventory.

**Measurable Goal:** Provide active construction site list with the annual report.

**Current (as of 9/30/2021) Number of Active Construction Sites: 14**

ProjectID	ProjectName	YEAR	Status	Engineering Firm
1910044	Chick-fil-A (1235 William D Tate Ave)	2021	Under Construction	Burger Engineering
2110001	ELAN Grapevine Phase 2	2021	Under Construction	Kimley-Horn
1910043	GRACE (1060 Texan Trl)	2021	Record Drawing Received - Field Verification Needed	Ridinger Associate
<Null>	Grapevine HS Parking Drainage	2021	Record Drawing Received - Field Verification Needed	<Null>
2110012	Grapevine Mercedes Body Shop	2021	Under Construction	Spiars
2010014	Pecan Ridge Addition Lot 1-7, 8X, Block A	2021	Under Construction	Hamilton-Duffy
2010002	Q Speed Carwash	2021	Under Construction	Spiars Engineering
2010011	Riverwalk Veterinary Clinic	2021	Under Construction	Spiars Engineering
2110003	Shorewood Townhomes	2021	Under Construction	Harris Kocher Smith
2010010	Southland	2021	Record Drawing Received - Field Verification Needed	Goodwin & Mashall
2110009	Tillery Commons	2021	Under Construction	DEOTTE, INC.
2010012	Volkswagen of Grapevine	2021	Under Construction	Spiars Engineering
2010009	Wildwood Crossing	2021	Record Drawing Received - Field Verification Needed	Kellie Engineering
2110013	Wright Office Building	2021	Under Construction	Wright Construction Company

## Attachment 5

List of Erosion and Sediment Control Plans Reviewed  
10/01/2020 through 9/30/2021



**MEMORANDUM**

**City of Grapevine, TX**

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**TO:** *File*

**FROM:** *Gregg Moss, Environmental Specialist*

**SUBJECT:** *BMP 3.5 Review of Erosion and Sediment Control Plans*

**DATE:** *October 1, 2020*

*(Last update: September 30, 2021)*

---

**Project Description:** Review of all erosion and sediment control plans by qualified personnel as part of pre-construction requirements, including determination of potential water quality impacts.

**Objective:** To ensure that new construction sites meet minimum erosion control requirements prior to the initiation of construction activities.

**Activity to Implement:** Develop and maintain an electronic erosion and site sediment control plan list.

**Measurable Goal:** Provide a list of reviewed plans with the annual report.

Number of ESC plans reviewed during PY 2021: 12

Chick-fil-a	1/12/2020
Volkeswagen of Grapevine	1/14/2021
GRACE 1060 Texan Trail	1/19/2021
Wildwood Crossing	2/25/2021
Dove Road County Store	3/30/2021
Shorewood Townhomes	4/15/2021
Q-Speed Car Wash	5/4/2021
Pecan Ridge	6/1/2021
Grapevine Station North Lot 2R	6/10/2021
Elan Phase II	6/15/2021
Riverwalk Vet Clinic	7/20/2021
2nd Pre-con: Volkeswagen of Grapevine	8/10/2021

## Attachment 6

### List of Pre-Construction Meetings Held 10/01/2020 through 9/30/2021



**MEMORANDUM**

**City of Grapevine, TX**

**TO:** *File*

**FROM:** *Gregg Moss, Environmental Specialist*

**SUBJECT:** *BMP 3.6 Pre-Construction Meetings*

**DATE:** *October 1, 2020*

*(Last update: September 30, 2021)*

**Project Description:** Host Pre-Construction meetings with contractors/ property owners and present erosion and sediment control requirements and expectations.

**Objective:** To ensure that new construction sites meet minimum erosion control requirements prior to the initiation of construction activities. Use meeting as an educational tool to inform builders of requirements and expectations.

**Activity to Implement:** Develop and maintain an electronic construction site inventory.

**Measurable Goal:** Provide active construction site list with the annual report.

Number of Pre-Construction Meetings held in PY 2021: 12

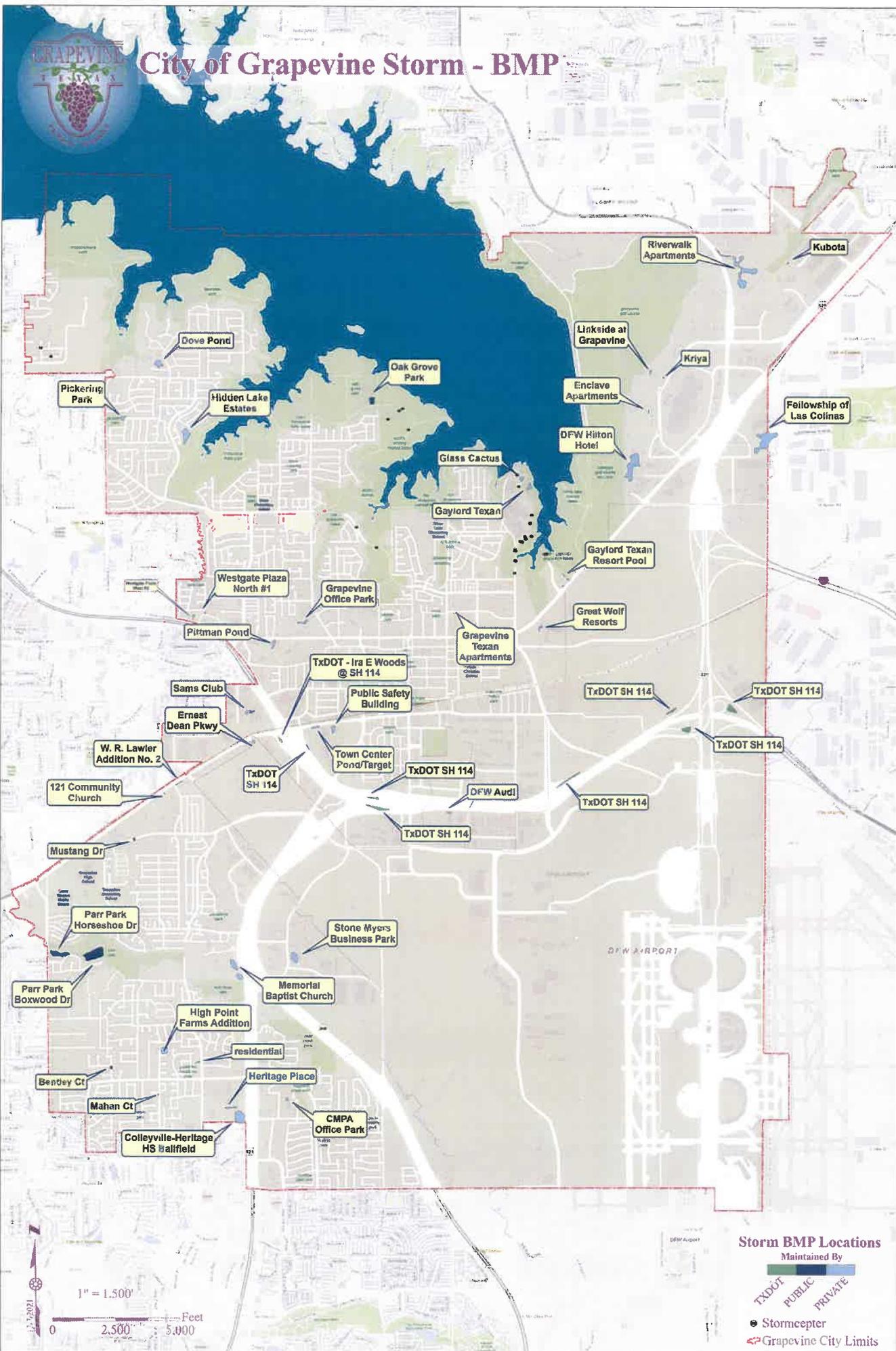
<u>Name:</u>	<u>Date:</u>	<u>Time:</u>
Chick-fil-a	1/12/2020	900
Volkeswagen of Grapevine	1/14/2021	900
GRACE 1060 Texan Trail	1/19/2021	1400
Wildwood Crossing	2/25/2021	1500
Dove Road County Store	3/30/2021	800
Shorewood Townhomes	4/15/2021	900
Q-Speed Car Wash	5/4/2021	1500
Pecan Ridge	6/1/2021	900
Grapevine Station North Lot 2R	6/10/2021	1000
Elan Phase II	6/15/2021	1500
Riverwalk Vet Clinic	7/20/2021	1400
2nd Pre-con: Volkeswagen of Grapevine	8/10/2021	1400

## Attachment 7

### Current Post-Construction BMP Map as of 9/30/2021



# City of Grapevine Storm - BMP



**Storm BMP Locations**  
Maintained By

- TxDOT
- PUBLIC
- PRIVATE

● Stormceptor  
◡ Grapevine City Limits

## Attachment 8

### List of Pollution Prevention Audits of Municipal Facilities

10/01/2020 through 9/30/2021



**MEMORANDUM**

**City of Grapevine, TX**

**TO:** *File*

**FROM:** *Gregg Moss, Environmental Specialist*

**SUBJECT:** *BMP 5.1 City Facility Pollution Prevention Audits*

**DATE:** *October 1, 2020*

*(Last update: September 30, 2021 )*

**Project Description:** Develop an inventory and map of all City-owned and operated facilities. Determine those facilities are "High Priority" with respect to potential stormwater issues. Develop P2 SOPs and audit those facilities for P2 compliance.

**Objective:** To determine which City facilities fall into the category of "High Priority" and develop adequate pollution plans for those facilities. Audit those locations for compliance with pollution prevention SOPs.

**Activity to Implement:** Inspect "High Priority" Facilities.

**Measurable Goal:** Conduct one audit of each "High Priority" facility per year.

Attached is a list of the facility audits conducted (all audit forms are on file).

AddressNumber	Street	StartDate	StopDate	Location
501	SHADYBROOK DR	11/16/2020	11/16/2020	Municipal Service Center
501	SHADYBROOK DR	3/5/2021	3/5/2021	Municipal Service Center
501	SHADYBROOK DR	6/2/2021	6/4/2021	Municipal Service Center
2520	OAK GROVE LOOP S	6/27/2021	6/27/2021	Oak Grove Loop Ball Park.
3100	TIMBERLINE DR	6/27/2021	6/27/2021	Fire Station #3
2700	DOVE LOOP RD	6/27/2021	6/27/2021	Oak Grove Softball Complex
2801	GRAPEVINE MILLS BLVD N	6/28/2021	6/28/2021	Fire Station #5
1805	HALL JOHNSON RD	6/28/2021	6/28/2021	Pleasant Glade Pool
601	BOYD DR	6/28/2021	6/28/2021	Fire Station #1

626	BALL ST	6/28/2021	6/28/2021	Nash Farm
4500	MERLOT AVE	6/28/2021	6/28/2021	Fire Station #4
411	BALL ST	6/28/2021	6/28/2021	Botanical Gardens
500	SHADYBROOK DR	6/28/2021	6/28/2021	Grapevine Animal Shelter.
2000	DOVE RD	6/28/2021	6/28/2021	Dove Pool
3010	PARR LN	6/28/2021	6/28/2021	Parr Park
1501	N DOOLEY ST	6/29/2021	6/29/2021	Vineyards Campground
3091	DOVE RD	6/29/2021	6/29/2021	Fire Station #2
3000	MEADOWMERE LN	6/29/2021	6/29/2021	Meadowmere Park.
1007	IRA E WOODS AVE	6/29/2021	6/29/2021	Grapevine Public Safety Building
3230	STATE HWY 360	6/29/2021	6/29/2021	Bear Creek Dog Park
203	W DALLAS RD	7/2/2021	7/2/2021	Grapevine Vintage Railroad Roundhouse.
3800	FAIRWAY DR	7/2/2021	7/2/2021	Golf Maintenance Facility (Grapevine Municipal Golfcourse).
2600	FAIRWAY DR	7/7/2021	7/7/2021	Water Treatment Plant
602	SHADYBROOK DR	7/7/2021	7/7/2021	Waste Water Treatment Plant
501	SHADYBROOK DR	8/18/2021	8/18/2021	Municipal Service Center

## Attachment 9

### List of Stormwater Controls Status as of 9/30/2021



**MEMORANDUM**

**City of Grapevine, TX**

**TO:** *File*

**FROM:** *Gregg Moss, Environmental Specialist*

**SUBJECT:** *BMP 5.4 Stormwater Controls for High Priority Facilities*

**DATE:** *October 1, 2020*

*(Last update: September 30, 2021)*

**Project Description:** Identify and assess stormwater controls at each of the listed facilities. Determine whether new controls are required for each facility. If new controls are deemed necessary, install those controls. Refer to BMP 5.1 for the determination of “High Priority” facilities.

**Objective:** To determine which, if any, “High Priority” facilities require stormwater controls above and beyond those currently installed in order to prevent stormwater pollution from municipal activities.

**Activity to Implement:** Determine if new controls are required.

**Measurable Goal:** Provide a list of potential controls.

The following are potential Stormwater controls to be considered at “High Priority” facilities:

<b>City Facilities</b>			
<b>NAME</b>	<b>ADDRESS</b>	<b>Department</b>	<b>Potential New Controls</b>
Fire Station #2	2801 Panhandle Dr	Fire	None
Fire Station #1	601 Boyd Dr	Fire	None
Fire Station #3	2627 Briarwood	Fire	None
Fire Station #4	4500 Merlot Ave	Fire	None
Fire Station #5	2801 Grapevine Mills Bl	Fire	None
Department of Public Safety	1007 Ira E. Woods Ave	Public Safety	None
Animal Control	500 Shady Brook Dr	Public Safety	None
Water Treatment Plant	2600 Fairway Dr	Public Works	None
Wastewater Treatment Plant	602 Shady Brook Dr	Public Works	- Stabilize North side slope. - Increase Street Sweeping.
Municipal Service Center	501 Shady Brook Dr	Public Works	- Cover stockpiles. - Protect drains downhill of stockpiles. - Install device to remove sediment from vehicles exiting Auxiliary Yard.

DOVE CROSSING PARK	1701 Stoneway Dr	Parks	None
NAME	ADDRESS	Department	Potential New Controls
DOVE PARK - POOL	1509 Hood Ln	Parks	None
GRAPEVINE GOLF COURSE	3800 Fairway Dr	Parks	- Cover stockpiles.
HERITAGE PARK/BOTANICAL GARDEN	411 Ball St	Parks	None
MEADOWMERE PARK	3000 Meadowmere Ln	Parks	None
OAK GROVE PARK	Oak Grove Loop N & Soccer Rd	Parks	None
PARR PARK	3010 Parr Ln	Parks	None
PLEASANT GLADE POOL	1805 Hall Johnson Rd	Parks	None
ROCKLEDGE PARK	3851 Fairway Dr	Parks	None
THE VINEYARDS CAMPGROUND	1501 N Dooley St	Parks	None
NASH FARM	626 Ball St	CVB	None
GRAPEVINE VINTAGE RAILROAD	208 W. Dallas Rd.	CVB	None

Attachment 10

SSOi Reporting Information

As of 9/30/2021



**MEMORANDUM**

**City of Grapevine, TX**

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**TO:** *File*

**FROM:** *Gregg Moss, Environmental Specialist*

**SUBJECT:** *BMP TMDL-1 Participation in TCEQ SSOi Program*

**DATE:** *October 1, 2020*

*(Last update September 30, 2021:)*

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**Project Description:** To continue the City's participation in TCEQ's SSOi program, which includes details about the City's improvements to sanitary lines to reduce overflows, addressing of lift station inadequacies and strengthening of sanitary use requirements.

**Objective:** Continue to participate in the SSOi program to meet the goals of the Bacteria Impairment TMDL in the Big Bear Creek Watershed, specifically related to Sanitary Sewer Systems.

**Activity to Implement:** Continued participation in the SSOi program.

**Measurable Goal:** Provide SSOi annual report to the TCEQ.

**See attached report.**

Jon Niermann, *Chairman*  
Emily Lindley, *Commissioner*  
Bobby Janecka, *Commissioner*  
Toby Baker, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

January 21, 2020

E-SIGNATURE #9171 9690 0935 0234 7126 46

Mr. Jeffrey Hatch, Wastewater Plant Manager  
City of Grapevine  
201 Shady Brook Dr.  
Grapevine, Texas 76051-8214

Re: **Notice of SSO Plan Acceptance**  
Sanitary Sewer Overflow (SSO) Initiative  
Grapevine Wastewater Treatment Plant, Grapevine (Tarrant County), Texas  
Regulated Entity No. 101614352, TCEQ ID No. WQ0010486-002, EPA ID No.: TX0032018

Dear Mr. Hatch:

The Texas Commission on Environmental Quality's (TCEQ) Dallas/Fort Worth (DFW) Region Office has completed the review of your Sanitary Sewer Overflow (SSO) Plan dated December 5, 2019. The plan appears to address the SSOs in your collection system. Based upon our review, your plan is approved and will be forwarded to the Enforcement Division for incorporation into an Agreement. Please note that upon receipt, the Enforcement Division will also review the plan and may request additional information if necessary, to formalize your SSO Plan into the Agreement.

**In addition, you should be aware that participation in the TCEQ's SSO Initiative does not preclude federal enforcement action taken by the Environmental Protection Agency.**

If you or members of your staff have any questions, please feel free to contact Ms. Carol Moulton at the DFW Region Office at (817) 588-5894.

Sincerely,

A handwritten signature in black ink, appearing to read "Greg Diehl".

Greg Diehl, Wastewater Team Leader  
Dallas/Fort Worth Region Office  
Texas Commission on Environmental Quality

GD/cm

## Attachment 11

List OSSF Issues Provided by Tarrant County  
10/01/2020 through 9/30/2021



**MEMORANDUM**

**City of Grapevine, TX**

**TO:** *File*

**FROM:** *Gregg Moss, Environmental Specialist*

**SUBJECT:** *BMP TMDL-2 On-Site Sewage Facilities*

**DATE:** *October 1, 2020*

*(Last update: September 30, 2021)*

**Project Description:** Utilize Tarrant County Public Health (the OSSF Authority for this MS4) as a resource for identifying and addressing failing septic systems and addressing inadequate maintenance of OSSFs. Contact TCPH annually for list of OSSFs and issue status of those OSSFs as applicable.

**Objective:** To address the potential contribution of OSSF to bacterial impairment of the watershed through identifying and addressing failing systems and addressing inadequate maintenance of OSSFs.

**Activity to Implement:** Contact TCPH for a list of OSSF issues within the City.

**Measurable Goal:** Provide a list of OSSF issues within the City on an annual basis.

Grapevine had no OSSF issues reported and one new new OSSF installed during Permit Year 2021.

See attached documents.

***List of 1 New OSSF Applications Received for Systems  
to be Located in the City of GRAPEVINE  
between October 01, 2020 thru September 30, 2021***

<i>App Date</i>	<i>Permit Num</i>	<i>Address</i>	<i>City</i>	<i>St</i>	<i>Zip</i>	<i>Model</i>	<i>Treat Method</i>	<i>Company</i>
<i>Permit Date</i>		<i>Lot Black Subdivision</i>		<i>Mapsco</i>	<i>Code</i>	<i>Serial</i>	<i>Dist. Method</i>	<i>First Name Last Name</i>
6/16/2021	23295	1209 MURRELL RD	GRAPEVINE	TX	7605		Aerobic	
6/21/2021		5 1 SETTLEMENT ADDITION (THE)		27D			Surface Irrigation	JEFFREY TRON

## Attachment 12

### List of Liquid Waste Haulers and Number of Manifests Received 10/01/2020 through 9/30/2021



**MEMORANDUM**

City of Grapevine, TX

---

**TO:** *File*

**FROM:** *Gregg Moss, Environmental Specialist*

**SUBJECT:** *BMP TMDL-3 Liquid Waste Hauling*

**DATE:** *October 1, 2020*

*(Last update: Sept 30, 2021)*

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**Project Description:** The MS4 will maintain electronic records of all liquid waste hauling manifests received by the City.

**Objective:** To track liquid waste hauler use within the City/ MS4. Provides an additional resource when tracking potential sources of bacteria.

**Activity to Implement:** Electronically record all liquid waste hauler manifests received by the City.

**Measurable Goal:** Provide number of waste haulers and number of manifests received annually.

A total of 12 waste haulers submitted manifests during PY 2021.

A total of 478 manifests were received during PY 2021.

## Attachment 13

Surface Water pH Sampling Results Conducted from  
10/01/2020 through 9/30/2021



**MEMORANDUM**

**City of Grapevine, TX**

**TO:** *File*

**FROM:** *Gregg Moss, Environmental Specialist*

**SUBJECT:** *BMP PH-1 Water Quality Impairment*

**DATE:** *October 1, 2020*

*(Last update: September 30, 2021)*

**Project Description:** To monitor pH levels in the 6 larger creeks within the MS4 (Jones Branch, Dove Branch, Farris Branch, Morehead Branch, Cable Branch and Silver Lake Branch) feeding in to Grapevine Lake (Segment 0826) on a quarterly basis to determine if the MS4 is contributing to this waterbody's impairment. Develop BMPs and measurable goals should this be determined.

**Objective:** To determine whether the City of Grapevine, as an MS4, is contributing to the pH impairment of Grapevine Lake (Segment 0826) and take any requires corrective action, as necessary, should it be determined.

**Activity to Implement:** Quarterly pH monitoring of 6 creeks discharging to segment 0826.

**Measurable Goal:** Provide resulting pH data to TCEQ.

Water	Season	FY	Date	Time	Status	Temp (C)	pH (su)
Silver Lake Branch	Fall	2021	11/16/2020	14:00	Dry		
Cable Branch	Fall	2021	11/16/2020	14:10	Normal	22.9	8.1
Farris Branch	Fall	2021	11/16/2020	15:00	Normal	23.2	8.1
Morehead Branch	Fall	2021	11/16/2020	14:40	Normal	24.6	7.9
Dove Branch	Fall	2021	11/16/2020	15:20	Normal	22.1	8.3
Jones Branch	Fall	2021	11/16/2020	15:40	Standing	22.4	8.4
Silver Lake Branch	Winter	2021	2/23/2021	13:50	Dry		
Cable Branch	Winter	2021	2/23/2021	11:10	Normal	15.6	8.3
Farris Branch	Winter	2021	2/23/2021	10:15	Normal	15.4	8.1
Morehead Branch	Winter	2021	2/23/2021	10:40	Normal	15.2	8.1
Dove Branch	Winter	2021	2/23/2021	9:20	Normal	15.3	8.3
Jones Branch	Winter	2021	2/23/2021	9:45	Normal	15.6	8.3
Silver Lake Branch	Spring	2021	6/3/2021	14:40	Dry		
Cable Branch	Spring	2021	6/3/2021	14:25	Normal	24.5	8.5
Farris Branch	Spring	2021	6/3/2021	13:35	Lake	27.0	8.1
Morehead Branch	Spring	2021	6/3/2021	13:55	Lake	29.0	8.1
Dove Branch	Spring	2021	6/3/2021	12:45	Lake	27.3	8.3
Jones Branch	Spring	2021	6/3/2021	13:10	Lake	27.4	8.5
Silver Lake Branch	Summer	2021	8/17/2021	11:00	Dry		
Cable Branch	Summer	2021	8/17/2021	12:45	Normal	26.5	8.8
Farris Branch	Summer	2021	8/17/2021	13:15	Normal	26.3	8.7
Morehead Branch	Summer	2021	8/17/2021	13:45	Standing	28.5	8.1
Dove Branch	Summer	2021	8/17/2021	14:15	Low	26.1	8.2
Jones Branch	Summer	2021	8/17/2021	14:45	Low	26.2	8.1