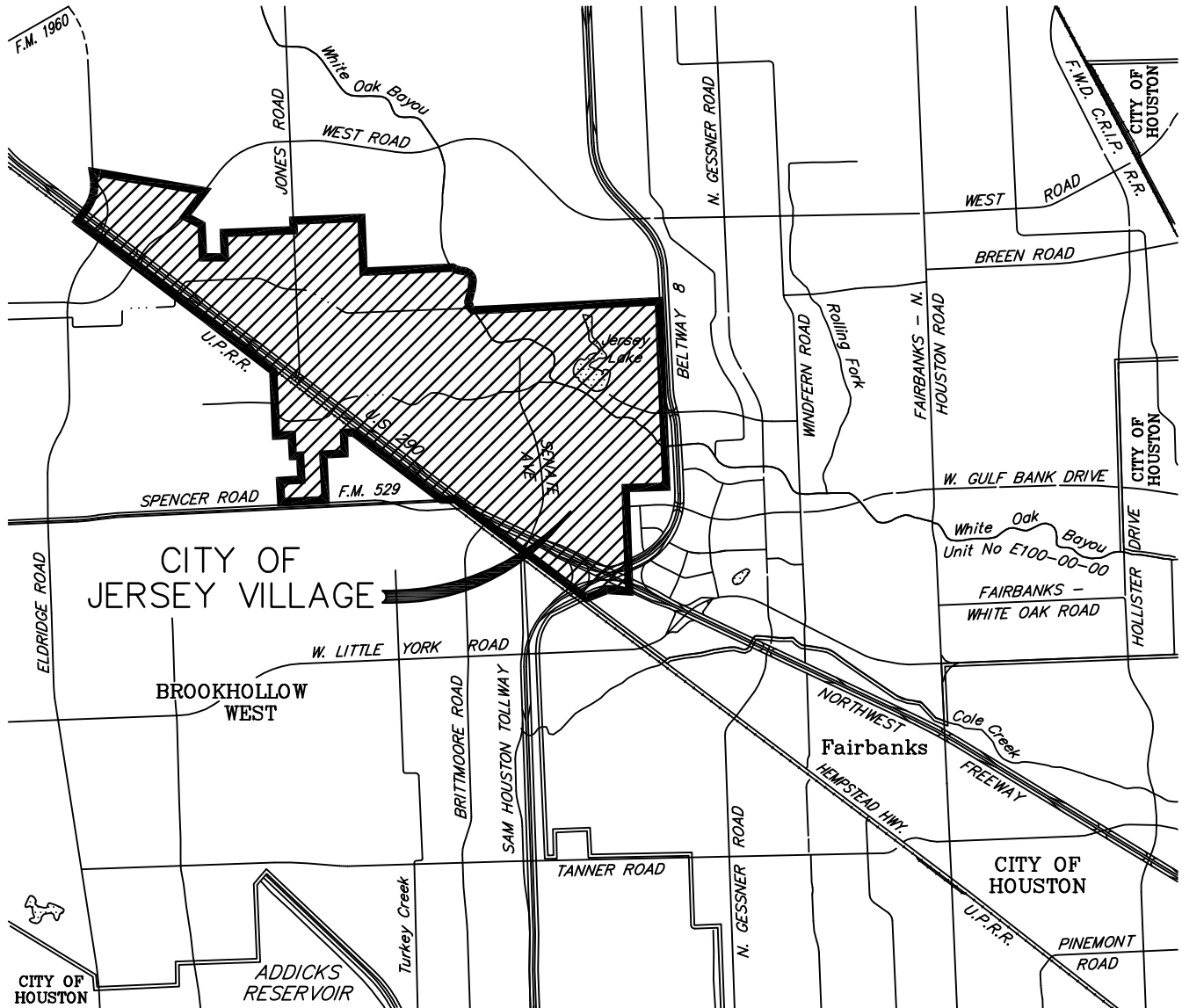


PHASE II MS4 ANNUAL REPORT PERMIT YEAR 2: 2019-2020

FOR
CITY OF JERSEY VILLAGE
HARRIS COUNTY, TEXAS
Permit No. TXR040227



December 2020
JC Job No. 05440-0003-00



JONES | CARTER

Texas Board of Professional Engineers Registration No. F-439
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

Phase II (Small) MS4 Annual Report Form
TPDES General Permit Number TXR040000

A. General Information

Authorization Number: TXR040227

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

Annual Reporting Year Option Selected by MS4:

Calendar Year: _____

Permit Year: _____

Fiscal Year: X Last day of fiscal year: September 30

Reporting period beginning date: (month/date/year): October 1, 2019

Reporting period end date: (month/date/year): September 30, 2020

MS4 Operator Level: Level 1

Name of MS4: City of Jersey Village MS4

Contact Name: Liz Stone Telephone Number: (281) 363-4039

Mailing Address: 1575 Sawdust Road, Suite 400, The Woodlands, TX 78380

E-mail Address: mstone@jonescarter.com

A copy of the annual report was submitted to the TCEQ Region: YES X NO _____

Region the annual report was submitted to: TCEQ Region 12

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.	Yes		The MS4 submitted their SWMP to TCEQ by the requested deadline and the SWMP is currently in review by the TCEQ; the Annual Report was completed based on the SWMP that was submitted at this time.
Permittee is currently in compliance with recordkeeping and reporting requirements.	Yes		The MS4 has submitted a concise annual report and retained applicable records as outlined in the TPDES General Permit No. TXR040000.
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.).	Yes		The MS4 meets all eligibility requirements outlined in the TPDES General Permit No. TXR040000.
Permittee conducted an annual review of its SWMP in conjunction with preparation of the annual report	Yes		The MS4 has conducted an annual review of the SWMP as outlined in the TPDES General Permit No. TXR040000.

2. Provide a general assessment of the appropriateness of the selected BMPs.
You may use the table below to meet this requirement:

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
1.	3.1 Utility Bill Inserts	YES. The MS4 distributed approximately 9,644 storm water educational inserts in four issues of the <i>Jersey Village Star</i> newsletter to the public advertising the DEA Drug Take Back event, informing residents of the new street sweeper and its purpose, educating the public about grease traps, and an useful article about proper pet waste disposal.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
1.	3.2 Utilize MS4 Website	<p>YES. The MS4 created a dedicated website for their MS4 program https://www.jerseyvillagetx.com/page/pw.ms4. The City posted their Permit Year 1 Annual Report, various storm water quality educational material, information about Fats, Oils, and Grease (FOG) and advertised the illicit discharge reporting phone number and inlet drain marking program. Additionally, the utility bill inserts (or newsletters) are also located on their website https://www.jerseyvillagetx.com/page/city.news. Recycling tips/guidelines, household hazardous waste (HHW), and electronic recycling information was also shared on the MS4's website https://www.jerseyvillagetx.com/page/pw.garbage. The MS4 will continue to utilize their website for the duration of the permitting term.</p>
1.	4.1 Storm Drain Marking	<p>YES. Inlet markers are a mechanism of raising public awareness; ultimately reducing and preventing illicit discharges to the storm sewer system from residents. To date, approximately 300 inlet markers have been installed by volunteers. No groups were interested in volunteering in Permit Year 2; thus, no inlet markers were placed during this permit year. The MS4 will continue promoting the inlet marking program to install new inlet markers in the upcoming permit year.</p>
1.	4.2 Recycling Program	<p>YES. A weekly recycling program continued to be conducted and provided for all residents within the MS4. Bulk waste items such as refrigerators (free of freon) and tree trimmings are also accepted. The recycling program reduces the amount of materials which are not properly disposed and may impact local waterways.</p>
2.	3.1 Maps of Inlets, Storm Sewer Lines, Outfalls, Surface Water & Structural Controls	<p>YES. The map assists the City to track and document illicit discharges by identifying the approximate location of all inlets, outfalls, surface waters, and structural controls. The map was evaluated and no updates were needed during Permit Year 2.</p>

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
2.	4.1 Training for Illicit Discharge Detection & Elimination	YES. An MS4 Training Session was conducted on July 14, 2020 through a webinar by the MS4 Administrator. The training presentation described the impacts storm water discharges have on local water ways and how to identify illicit discharges, illegal connections, and illegal dumping. The recorded presentation was placed on the MS4 Administrator's website (https://www.jonescarter.com/municipal-separate-storm-sewer-system-training/). A digital sign-in sheet and certificate of completion were documented for the attendees.
2.	5.1 Public Reporting Using Utility Bill Inserts	YES. On the front cover of every monthly utility bill insert (or newsletter) are phone numbers for residents to call to report code violations and other pollution concerns such as illicit discharges.
2.	5.2 Public Reporting Using Electronic Education	YES. The MS4 continued to post the phone number on the MS4's main webpage https://www.jerseyvillagetx.com/ to call if an illicit discharge is suspected. This phone number is also located near the top of their MS4 dedicated webpage https://www.jerseyvillagetx.com/page/pw.ms4 .
3.	6.1 Training for Construction Site Stormwater Runoff Control	YES. An MS4 Training Session was conducted on July 14, 2020 through a webinar by the MS4 Administrator. The MS4 Administrator provided educational training on how to identify construction site non-compliance issues and enforcement procedures to ensure all construction sites maintain in compliance with the Construction General Permit TPDES TXR150000. The recorded presentation was also placed on the MS4 Administrator's website (https://www.jonescarter.com/municipal-separate-storm-sewer-system-training/). A digital sign-in sheet and certificate of completion were documented for the attendees.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
4.	6.1 Training for Post-Construction Stormwater Controls	YES. An MS4 Training Session was conducted on July 14, 2020 through a webinar by the MS4 Administrator. Educational training information was provided on the post-construction site storm water runoff control program, the guidance documents that are referenced, and how to inspect/maintain the MS4's permanent structural controls. The recorded presentation was also placed on the MS4 Administrator's website (https://www.jonescarter.com/municipal-separate-storm-sewer-system-training/). A digital sign-in sheet and certificate of completion were documented for the attendees.
5.	3.1 Street Sweeping Measures	YES. The MS4 purchased a new street sweeper in Permit Year 2. The primary use is directed towards city-sponsored events, parades, and cleanup after major storm events. This street sweeper has an added feature to also vacuum minor stormwater runoff ponding. Approximately, 271 miles of city roads were cleaned in Permit Year 2.
5.	5.1 Training for Pollution Prevention & Good Housekeeping	YES. An MS4 Training Session was conducted on July 14, 2020 through a webinar by the MS4 Administrator. The MS4 Administrator provided educational training to those who are responsible for implementing pollution prevention measures and good housekeeping principals in municipal activities and municipally owned facilities. The recorded presentation was also placed on the MS4 Administrator's website (https://www.jonescarter.com/municipal-separate-storm-sewer-system-training/). A digital sign-in sheet and certificate of completion were documented for the attendees.
5.	6.1 Disposal of Waste	YES. All waste from facilities owned and operated by the MS4 were disposed in accordance with 30 TAC Chapters 330 or 335. Three (3) spill response kits were supplied for the MS4 throughout their jurisdiction for mobilization.
5.	8.1 Inspections & Assessment on Facilities	YES. The MS4 inspected and assessed four (4) municipal facilities for storm water impairments during Permit Year 2. No deficiencies were observed during these inspections, so corrective actions were not warranted. These inspections will be performed annually.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)
5.	8.2 Municipal Operation & Maintenance Activities	YES. The MS4 reviewed their O&M activities and are creating a list of pollutants of concern that may be discharged from these activities. If needed, the MS4 will implement pollution prevention measures to minimize the discharge of these pollutants.

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:

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
1.	3.1	Utility Bill Inserts	9,644	<i>Jersey Village Star</i> Newsletters	NO. Though this BMP does not result in a direct reduction of pollutants, storm water quality educational articles and useful information in the newsletters raises the awareness of storm water pollution.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
1.	3.2	Utilize MS4 Website	1 4 1 1	Posted Permit Year 1 Annual Report Posted Relevant <i>Jersey Village Star</i> Newsletters Posted Recycling Tips & Guidelines Dedicated FOG webpage	NO. The MS4 created a dedicated storm water quality webpage https://www.jerseyvillagetx.com/page/pw.ms4 that has various educational resources available for the general public. The MS4's Permit Year 1 Annual Report is also located at this link. The four (4) relevant newsletters that provide useful storm water quality educational material are also located on their website https://www.jerseyvillagetx.com/page/city.news . Additionally, the MS4 provided recycling tips/guidelines, household hazardous waste (HHW), and electronic recycling information, too, at this location https://www.jerseyvillagetx.com/page/pw.garbage . In Permit Year 2, the MS4 also created a dedicated Fats, Oil, and Grease (FOG) webpage to relay important information to commercial users https://www.jerseyvillagetx.com/page/F.O.G%20Program . The approved SWMP will be posted when ready. While this BMP does not directly reduce pollutants into the receiving stream, it helps to educate the public.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
1.	4.1	Storm Drain Marking	300	Inlet Markers	YES. Approximately, 300 inlet markers have been placed to date by volunteers since the program began. No markers were installed in Permit Year 2. The inlet markers are a mechanism of raising public awareness, which ultimately reduce and prevent direct illicit discharges.
1.	4.2	Recycling Program	52 5	Weekly Pick-up Events (includes Heavy & Bulk Waste) Pet Waste Stations	YES. A weekly residential recycling program continues to be conducted and provided for all users within the MS4. This program includes residential heavy trash and bulk waste removal. Additionally, five (5) pet waste stations are located at the City-owned golf course and along a City-owned nature trail behind the City dog park. Both programs allow direct public involvement to reduce pollutants in the storm sewer system and promotes good housekeeping principals.
1.	5.1	Opportunity for Public Comment	12	Public Meetings	YES. Residents, businesses, and other community members are given opportunities to provide comments on the SWMP at the monthly City Council Meetings. The SWMP, Notice of Intent, General Permit, and Fact Sheet are electronically available upon request. This BMP can have a direct reduction in pollutants but it depends on the manner of the comment. No comments were received in Permit Year 2.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
2.	3.1	Maps of Inlets, Storm Sewer Lines, Outfalls, Surface Waters, & Structural Controls	1	MS4 Map	NO. The MS4 map was evaluated and no updates were needed in Permit Year 2. This BMP does not demonstrate a direct reduction in pollutants, but assists with tracking illicit discharges.
2.	4.1	Training for Illicit Discharge Detection and Elimination	1	Training Session	YES. An MS4 Training Session was conducted on July 14, 2020 through a webinar by the MS4 Administrator. This training presentation has a direct reduction in pollutants since it describes the impacts storm water discharges have on local water ways and how to identify illicit discharges, illegal connections, and illegal dumping.
2.	5.1	Public Reporting Using Utility Bill Insert	12	Issues of <i>Jersey Village Star</i> Newsletter	YES. Each monthly issue of the <i>Jersey Village Star</i> newsletter that is distributed in the user's water bill includes a telephone number to report illicit discharges and other pollution violations. This BMP can directly impact the reduction of pollutants in stormwater.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
2.	5.2	Public Reporting Using Electronic Education	1	Website for Public Reporting Using Electronic Education	YES. The MS4 provides a phone number to report illicit discharges on the city's homepage https://www.jerseyvillagetx.com/ and on their dedicated storm water quality webpage https://www.jerseyvillagetx.com/page/pw.ms4 . This BMP can directly impact the reduction of pollutants in stormwater.
2.	6.2	Source Investigation of Illicit Discharges	1	Written Inspection and Follow-up Procedures	YES. In Permit Year 2, the MS4 finalized written inspection and follow-up procedures for illicit discharges, construction stabilization measures, and municipal facilities. These procedures can demonstrate a direct reduction in pollutants while being referenced.
2.	7.1	Evaluate the Ordinance for Illicit Discharge Detection & Elimination	1	Ordinance	YES. The City's Ordinance was reviewed in Permit Year 2 and comments were presented. These comments will be further evaluated in Permit Year 3, and if agreed by the City Attorney, a draft City Ordinance will be prepared for formal consideration. This BMP can have a direct reduction in pollutants.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
3.	3.1	Evaluate the Ordinance for Construction Site Storm Water Runoff Control	1	Ordinance	YES. The City's Ordinance was reviewed in Permit Year 2 and comments were presented. These comments will be further evaluated in Permit Year 3, and if agreed by the City Attorney, a draft City Ordinance will be prepared for formal consideration. This BMP can have a direct reduction in pollutants.
3.	4.1	Construction Site Plan Review	18	Construction Drawings	NO. The City reviewed 18 construction drawings that resulted in land disturbance greater than or equal to 1 acre and for construction activities that were part of a larger common plan development or sale that would disturb 1 acre or more during Permit Year 2. This BMP does not directly reduce pollutants in the MS4.
3.	5.1	Construction Site Inspection & Enforcement	13	Construction Site Inspections	YES. The City conducted approximately 13 construction inspections during Permit Year 2. The City's Public Works Department reviewed the Storm Water Pollution Prevention Plans (SWPPPs) and conducted unannounced site inspections at the construction sites. The inspections ensured the Contractor implemented the SWPPP properly, ultimately reducing the discharge of pollutants into the storm sewer system. This BMP does directly reduce pollutants in the MS4.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
3.	6.1	Training for Construction Site Storm Water Runoff Control	1	Training Session	YES. An MS4 Training Session was conducted on July 14, 2020 through a webinar by the MS4 Administrator. This training presentation has a direct reduction in pollutants since it describes the impacts construction site storm water runoff can have, how to conduct construction site inspections and enforcement actions to ensure all construction sites maintain compliance with the Construction General Permit TPDES No. TXR150000.
3.	7.1	Guidance Manual for Construction Site Storm Water Runoff Control	1	Guidance Manual	NO. The <i>Storm Water Management Handbook for Construction Activities</i> by Harris County, Harris County Flood Control District, and the City of Houston was utilized to aid in implementing construction site BMPs. The guidance manual provides information on how to implement erosion and sediment controls, soil stabilization, and best management practices. It does not have a direct reduction in pollutants.
4.	3.1	Evaluate the Ordinance to Address Post-Construction Stormwater Runoff Control	1	Ordinance	YES. The City's Ordinance was reviewed in Permit Year 2 and comments were presented. These comments will be further evaluated in Permit Year 3, and if agreed by the City Attorney, a draft City Ordinance will be prepared for formal consideration. This BMP can have a direct reduction in pollutants.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
4.	4.1	Guidance Manual for Post-Construction Storm Water Controls	1	Guidance Manual	NO. The <i>Storm Water Management Handbook for Construction Activities</i> by Harris County, Harris County Flood Control District, and the City of Houston was utilized to aid in implementing post-construction BMPs. The guidance manual provides information on how to provide long-term maintenance of post-construction storm water control measures. It does not have a direct reduction in pollutants.
4.	5.1	Inspection Program for Post-Construction Storm Water Runoff Controls	13	Post-Construction Inspections	YES. The MS4 performed 13 post-construction inspections. The inspections ensured permanent structural controls were properly constructed, reducing the potential impacts of illicit discharges, and ensuring the long-term functionality of the BMP is maintained. These inspections can have a direct reduction in pollutants.
4.	6.1	Training for Post-Construction Storm Water Controls	1	Training Session	YES. An MS4 Training Session was conducted on July 14, 2020 through a webinar by the MS4 Administrator. This training presentation has a direct reduction in pollutants since it provides information on the post-construction site storm water runoff control program and how to inspect/maintain the MS4's permanent structural controls.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
5.	3.1	Street Sweeping Measures	271	Miles of Streets Swept	YES. Approximately, 271 miles of city streets were cleaned during Permit Year 2. This BMP has a direct reduction of pollutants into the storm sewer system.
5.	4.1	Inventory of Facilities & Storm Water Structural Controls	1	List of Municipal Facilities	NO. The MS4 developed an inventory list of facilities in a previous permit term. The list was evaluated and updated in Permit Year 2. This list does not have a direct reduction in pollutants in the MS4.
5.	5.1	Training for Pollution Prevention & Good Housekeeping	1	Training Session	YES. An MS4 Training Session was conducted on July 14, 2020 through a webinar by the MS4 Administrator. This training presentation has a direct reduction in pollutants since it provides information to those who are responsible for implementing pollution prevention measures and good housekeeping principals in municipal activities and at municipally owned facilities.
5.	6.1	Disposal of Waste	3	Spill Response Kits	YES. All waste from facilities owned and operated by the MS4 were disposed in accordance with 30 TAC Chapters 330 or 335. Three (3) spill response kits were supplied to operational staff and will be stored at City facilities. These BMPs have a direct reduction in pollutants.

MCM	BMP	Information Used	Quantity	Units	Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)
5.	7.1	Contractor Oversight	1	Program in Development	YES. The MS4 is developing contract language for all new Contractors performing maintenance work with the City limits. The language is subject to change and will be reviewed by the City Attorney (or other representative) for consideration of adoption. This program does have the potential to directly reduce pollutants in the MS4.
5.	8.1	Inspections & Assessments on Facilities	4	Facility Inspections	YES. The MS4 inspected and assessed four (4) municipal facilities for storm water quality impairments during Permit Year 2. No deficiencies were observed during the inspections, so corrective actions were not warranted. This BMP can potentially reduce pollutants directly into the MS4.
5.	8.2	Municipal Operation & Maintenance Activities	1	List of Potential Pollutants of Concern	NO. The MS4 evaluated the MS4 facilities they own and operate and are creating a list of potential pollutants of concern that could be discharged from O&M activities. This does not demonstrate a direct reduction of pollutants.

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

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
1.	3.1 Utility Bill Inserts - distribute to 100% of the community biannually	EXCEEDED GOAL. The MS4 distributed four (4) storm water quality articles to the community in Permit Year 2. This exceeded the measurable goal of biannual distribution.
1.	3.2 Utilize MS4 Website – post the submitted Annual Report & electronic educational material	EXCEEDED GOAL. The MS4 uploaded the Permit Year 1 Annual Report on its newly created storm water quality dedicated website https://www.jerseyvillagetx.com/page/pw.ms4 and posted various public education materials such as general storm water quality information, FOG material, and recycling tips/guidelines. The MS4 also created a dedicated FOG webpage. The approved SWMP will be posted online when applicable. The measurable goal for this BMP was exceeded because the MS4 posted additional information on their website than declared in their SWMP.
1.	4.1 Storm Drain Marking – report 100% of installed markers	MET GOAL. Approximately, 300 inlet markers have been placed to date by volunteers. The program was promoted by the MS4 on the website.
1.	4.2 Volunteer Recycling Program – continue program and document frequency	EXCEEDED GOAL. A weekly (52 pick-up events) volunteer recycling program continued to be conducted and provided for all residents within the MS4. Additionally, this program allows for residential heavy trash and bulk waste removal. The MS4 also has pet waste stations at a City-owned golf course and along a nature trail behind the City’s dog park. The measurable goal for this BMP was exceeded because the MS4 offers regular household recycling, heavy trash/bulk waste removal, and pet waste stations.
1.	5.1 Opportunity for Public Comment – hold Monthly (12) City Council Meetings	MET GOAL. All monthly City Council Meetings are open to the public. All residents, businesses and other interested parties can comment on the SWMP. The SWMP, Notice of Intent, General Permit and Fact Sheet are electronically available upon request. No comments were received in Permit Year 2.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
2.	3.1 Maps of Inlets, Storm Sewer Lines, Outfalls, Surface Waters, and Structural Controls – evaluate annually and update, if needed	MET GOAL. The MS4 map which identifies the approximate location of inlets, outfalls, surface waters, and structural controls was evaluated and no updates were needed in Permit Year 2.
2.	4.1 Training for Illicit Discharge Detection & Elimination – hold one training session annually	MET GOAL. One (1) MS4 Training Session was conducted on July 14, 2020 through a webinar which was recorded and later posted to a public website. A digital sign-in sheet and certificate of completion were documented for the attendees.
2.	5.1 Public Reporting Using Utility Bill Inserts – distribute to 100% of community biannually	EXCEEDED GOAL. Each monthly issue of the <i>Jersey Village Star</i> newsletter includes a telephone number to report illicit discharges and other pollution violations. These are distributed monthly, which exceeds the measurable goal of biannual distribution.
2.	5.2 Public Reporting Using Electronic Education – verify contact information is available on website	MET GOAL. The MS4 provided a phone number to report illicit discharges on the main webpage https://www.jerseyvillagetx.com/ and their dedicated MS4 website https://www.jerseyvillagetx.com/page/pw.ms4 .
2.	6.1 Responding to Illicit Discharges & Spills - respond to 100% of reported potential illicit discharges	MET GOAL. Even though zero (0) illicit discharges were reported in Permit Year 2, the MS4 has a program in place to respond, detect, and address illicit discharges and spills.
2.	6.2 Source Investigation of Illicit Discharges – investigate 100% of reported potential illicit discharges	MET GOAL. Even though zero (0) illicit discharges were reported in Permit Year 2, the MS4 has a program in place to gather the appropriate information, prioritize the risk, and assess the situation. Additionally, the MS4 developed formal written inspection and follow-up procedures as they pertain to illicit discharges.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
2.	6.3 Source Elimination of Illicit Discharges - eliminate 100% of reported potential illicit discharges	MET GOAL. Even though zero (0) illicit discharges were reported in Permit Year 2, the MS4 has a program in place to safely remove illicit discharges and prevent the unauthorized discharge from affecting the MS4.
2.	7.1 Evaluate the Ordinance for Illicit Discharge Detection & Elimination – review and continue implementing	MET GOAL. The MS4’s Ordinance was reviewed in Permit Year 2 and changes were recommended. These recommendations will be further evaluated for consideration and the Ordinance may be revised in the future.
3.	3.1 Evaluate the Ordinance for Construction Site Storm Water Runoff Control – review and continue implementing	MET GOAL. The MS4’s Ordinance was reviewed in Permit Year 2 and changes were recommended. These recommendations will be further evaluated for consideration and the Ordinance may be revised in the future.
3.	4.1 Construction Site Plan Review – review 100% of applicable site plans	MET GOAL. Eighteen (18) construction drawings were received and reviewed on applicable projects to prevent water quality impacts within the MS4.
3.	5.1 Construction Site Inspection & Enforcement – inspect 100% of applicable construction sites	MET GOAL. Thirteen (13) construction inspections were performed on construction sites during the preliminary stages to ensure all BMPs are properly installed.
3.	6.1 Training for Construction Site Storm Water Runoff Control – hold one training session annually	MET GOAL. One (1) MS4 Training Session was conducted on July 14, 2020 through a webinar which was recorded and later posted to a public website. A digital sign-in sheet and certificate of completion were documented for the attendees.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
3.	7.1 Guidance Manual for Construction Site Storm Water Runoff Control – continue utilizing	MET GOAL. The <i>Storm Water Management Handbook for Construction Activities</i> by Harris County, Harris County Flood Control District, and the City of Houston continued to be utilized to aid in implementing construction site BMPs.
4.	3.1 Evaluate the Ordinance to Address Post-Construction Stormwater Runoff Control – review and continue implementing	MET GOAL. The MS4’s Ordinance was reviewed in Permit Year 2 and changes were recommended. These recommendations will be further evaluated for consideration and the Ordinance may be revised in the future.
4.	4.1 Guidance Manual for Post-Construction Storm Water Controls – continue utilizing	MET GOAL. The <i>Storm Water Management Handbook for Construction Activities</i> by Harris County, Harris County Flood Control District, and the City of Houston continued to be utilized to aid in implementing post-construction BMPs.
4.	5.1 Inspection Program for Post-Construction Storm Water Controls – inspect 100% of completed applicable construction sites	MET GOAL. The MS4 performed thirteen (13) post-construction inspections to ensure permanent structural controls were properly constructed, reducing the potential impacts of illicit discharges, and ensuring the long-term functionality of the BMP is maintained.
4.	6.1 Training for Post-Construction Storm Water Controls – hold one training session annually	MET GOAL. One (1) MS4 Training Session was conducted on July 14, 2020 through a webinar which was recorded and later posted to a public website. A digital sign-in sheet and certificate of completion were documented for the attendees.
5.	3.1 Street Sweeping Measures – provide mileage of street swept	MET GOAL. Approximately, 271 miles of city streets were cleaned during Permit Year 2.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
5.	4.1 Inventory of Facilities & Storm Water Structural Controls - inventory 100% of facilities owned/operated by MS4	MET GOAL. The MS4 developed an inventory list of facilities in a previous permitting term. The list was evaluated and updates were made in Permit Year 2.
5.	5.1 Training for Pollution Prevention & Good Housekeeping – hold one training session annually	MET GOAL. One (1) MS4 Training Session was conducted on July 14, 2020 through a webinar which was recorded and later posted to a public website. A digital sign-in sheet and certificate of completion were documented for the attendees.
5.	6.1 Disposal of Waste – verify at least 1 spill response kit is available	EXCEEDED GOAL. All waste from facilities owned and operated by the MS4 were disposed in accordance with 30 TAC Chapters 330 or 335. Three (3) spill response kits were supplied to operational staff and will be stored at City facilities. This measurable goal was exceeded because the MS4 verified more than one (1) kit is available for use.
5.	7.1 Contractor Oversight – provide number of contractor oversights	MET GOAL. The MS4 is drafting language to include in new contracts for contractors performing municipal activities including maintenance. This text may be finalized in the upcoming permit years.
5.	8.1 Inspections & Assessments on Facilities – inspect 100% of permittee-owned facilities & controls	MET GOAL. The MS4 inspected and assessed four (4) municipal facilities for storm water impairments during Permit Year 2. No deficiencies were observed during the inspections, so corrective actions were not warranted.
5.	8.2 Municipal Operation & Maintenance Activities – review list of pollutants of concern	MET GOAL. From the MS4’s inventory list of 5.4.1, the MS4 included a list of possible pollutants of concerns and non-structural pollution prevention measures for each MS4 facility to counter-effect these pollutants.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
5.	8.3 Assessment of Storm & Sanitary Sewer Systems – repair 100% of known sanitary sewer overflows	MET GOAL. The MS4 performed routine maintenance and repairs on their sanitary and storm sewer systems including regular improvements and installation of a SCADA system at all lift stations for constant monitoring.

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.?

Due to allocated resources the MS4 did not conduct sampling nor analytical monitoring during Permit Year 2. The MS4 has provided qualitative information as proof of successfully achieving the measureable goals and benchmarks.

The MS4’s street sweeper cleaned approximately 271 miles of city streets in Permit Year 2. Additionally, the City purchased a newer street sweeper that is more efficient in collecting sediment, contaminants, trash/debris, and leaves. The street sweeper was used before and/or after city-sponsored events, parades, and regular maintenance of City-owned streets. It will continue to be used in future permit years.

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.

The City of Jersey Village MS4 discharges directly to classified segment 1017 White Oak Bayou Above Tidal. No other water bodies are within the permitted area so thus no newly identified impaired waters exist. Segment 1017 was already listed in a previous EPA-approved 303(d) list and *Texas Integrated Report- Texas 303(d) List (Category 5)*. The impairment of concern is bacteria. This information was included in the MS4’s SWMP submitted to TCEQ in July 2019.

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.

During Permit Year 2, the MS4 did not perform in-stream sampling, storm water representative monitoring, outfall sampling or other work that required laboratory analysis or water quality visual assessments used to address the bacteria impairment.

The MS4 implemented the following activities to address the discharge of bacteria into the receiving stream: newsletters distributed to all water users about proper pet waste disposal and FOG procedures; reviewing the MS4's Ordinance for activities and other practices that assist in reducing instances of bacterial exposure in runoff; and continued maintenance (and upgrades, if needed) of the sanitary sewer system including the wastewater treatment plant, lift stations, and transport system. Please see the table below in Part D.5 of this annual report for specific discussions about other activities.

In addition to the items mentioned above, the MS4 has approximately five (5) pet waste stations located at a public golf course and nature trail adjacent to a City-owned dog park. The City's Ordinance was reviewed in Permit Year 2, and revisions were recommended such as the addition of the definitions for illicit connection, illicit discharge, illegal dumping and pollutant. Additionally, text was suggested to include that committing the following penalties would result in the issuance of a notice of violation - illicit connections, illicit discharges, and illegal dumping. It is anticipated that a revised Ordinance will be adopted and implemented in Permit Year 3. While analytical data is not available for the above-mentioned activities, the MS4 reduces bacteria in their watershed by educating the public, maintaining and repairing sanitary sewer systems, reducing illicit discharges (illegal dumping and illicit connections), and enforcing the rules/regulations stated in their Ordinance.

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

In 2009, the TCEQ and EPA adopted *Eighteen Total Maximum Daily Loads (TMDLs) for Bacteria in Buffalo and Whiteoak Bayous and Tributaries* for numerous classified segments located in the San Jacinto River Basin. The City of Jersey Village MS4 discharges storm water to a classified segment in this TMDL, Segment No. 1017 Whit Oak Bayou Above Tidal. All BMPs outlined in the City of Jersey Village's SWMP target residents and businesses that reside within the MS4 service area. Each BMP is focused on detecting, addressing and eliminating impairments caused by bacteria.

The MS4 has determined no concerning pollutants were discharged from the MS4 based on observational data during Permit Year 2. As a result of these observations, all discharges from the MS4 were unlikely to contain concerning levels of bacteria. The MS4 will continue to implement the BMPs outlined in the SWMP to prevent pollutants of concern. If concerning pollutants are observed in future permit years, the MS4 will refer to the TCEQ-approved

Implementation Plan for Seventy-Two Total Maximum Daily Loads for Bacteria in the Houston-Galveston Region (I-Plan) and determine if additional BMPs are needed to prevent illicit discharges from impacting the environment. All BMPs will be evaluated at the end of the permitting term to ensure program effectiveness and success. If no progress is observed towards adhering to the target control and meeting the benchmark parameter, the MS4 will identify alternative BMPs that address new or increased efforts towards the benchmark.

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

Benchmark Parameter	Benchmark Value*	Description of additional sampling or other assessment activities*	Year(s) conducted
Bacteria	9.14 x 10 ⁹ counts of E. coli bacteria in storm water runoff per day	Public outreach efforts reduce the probability of bacteria resulting from illicit discharges.	Permit Year 2
Bacteria	9.14 x 10 ⁹ counts of E. coli bacteria in storm water runoff per day	Restricting illicit discharges reduce the probability of bacteria resulting from illicit discharges.	Permit Year 2
Bacteria	9.14 x 10 ⁹ counts of E. coli bacteria in storm water runoff per day	Restricting illicit discharges from construction runoff reduces the probability of bacteria entering the storm sewer inlets.	Permit Year 2
Bacteria	9.14 x 10 ⁹ counts of E. coli bacteria in storm water runoff per day	Reviewing construction drawings for BMPs, which address erosion and sediment controls, reduces the probability of bacteria entering the storm sewer system.	Permit Year 2
Bacteria	9.14 x 10 ⁹ counts of E. coli bacteria in storm water runoff per day	Inspecting construction sites for illicit discharges reduces the probability of bacteria entering the storm sewer system.	Permit Year 2
Bacteria	9.14 x 10 ⁹ counts of E. coli bacteria in storm water runoff per day	Utilizing the guidance manual assists in the implementation of erosion and sediment controls, soil stabilization, and BMPs.	Permit Year 2

Benchmark Parameter	Benchmark Value*	Description of additional sampling or other assessment activities*	Year(s) conducted
Bacteria	9.14 x 10 ⁹ counts of E. coli bacteria in storm water runoff per day	Restricting illicit discharge from post-construction runoff reduces the probability of bacteria entering the storm sewer inlets.	Permit Year 2
Bacteria	9.14 x 10 ⁹ counts of E. coli bacteria in storm water runoff per day	Evaluating completed construction sites to ensure structural controls were properly installed reduces the probability of bacteria entering the storm sewer system.	Permit Year 2

*Information obtained from TCEQ *Eighteen Total Maximum Daily Loads for Bacteria in Buffalo and Whiteoak Bayous and Tributaries*, approved by the EPA June 2009.

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

Benchmark Parameter	Selected BMP	Contribution to achieving Benchmark
Bacteria	Public Education Program - Educational Materials and Public Outreach Efforts	Educational materials raised awareness of stormwater quality concerns and encourage public reporting when illicit discharges were identified and detected. The MS4's inlet marking program provides involvement in the SWMP and encourages participants to report illicit discharges and other environmental concerns.
Bacteria	Illicit Discharge and Elimination Program	The MS4 responds to all reported illicit discharges and environmental concerns. These incidents are fully documented and remediated to the maximum extent practicable.
Bacteria	Construction Site Plan Review and Site Inspections	Restricting illicit discharges from construction activities reduces the probability of pollutants entering the storm sewer system.

Benchmark Parameter	Selected BMP	Contribution to achieving Benchmark
Bacteria	Municipal Operations and Good Housekeeping Practices	Utilization of the new street sweeper reduces the amount of pollutants entering the storm sewer system. Routine maintenance and inspection procedures of MS4 facilities assist in minimizing illicit discharges. If minor spills occur, the MS4 has immediate use of spill response kits.

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

Description of bacteria-focused BMP	Comments/Discussion
Sanitary Sewer Systems	The MS4 made various improvements and routine maintenance to the Wastewater Treatment Plant. The MS4 also added a SCADA (Supervisory Control and Data Acquisition) system to all the lift stations for constant monitoring. This will also assist in reducing the possibility of overflows and anticipating repairs prior to overflows occurring.
On-Site Sewage Facilities (for entities with appropriate jurisdiction)	No on-site sewage facilities are knowingly located within the MS4 and the MS4 does not allow on-site sewage facilities within their jurisdiction.
Illicit Discharge and Dumping	The City evaluated their Fats, Oil and Grease (FOG) program for commercial grease traps and interceptors. The City is in the process of reviewing the program for further effectiveness. In anticipation of fully implementing their program, the City created a FOG-dedicated webpage aimed at commercial users.
Animal Sources	Zoos, horse stables, and other similar facilities are not knowingly located within the City of Jersey Village. In the future the MS4 will be conscious of these types of facilities should they be in their jurisdiction and will include them in the distribution of storm water quality education material that discuss animal waste.

Description of bacteria-focused BMP	Comments/Discussion
Residential Education	<p>The <i>August 2020 Jersey Village Star Newsletter</i> posted an article about commercial grease interceptors; basically, informing the public how important it is to properly maintain these devices and failure to do so may result in unwanted environmental issues such as overflows. This newsletter is also located on the MS4's website.</p> <p>The MS4 posted an article entitled <i>8 Reasons to Pick Up After Your Pet</i> in the <i>September 2020 Jersey Village Star Newsletter</i> stating that dog waste pollutes the water and educating the public why dog waste needs to be properly disposed. This newsletter is also located on the MS4's website.</p>

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

Benchmark Indicator	Description/Comments
Number of Illicit Discharges Reported (including illegal dumping)	Even though zero (0) illicit discharges were identified, the MS4 has a program in place to respond, investigate, and eliminate any potential illicit discharge.
Number of Educational Materials Distributed to the Community	A total of 9,644 storm water education material were distributed to residents within the MS4 service area. The information addressed good housekeeping principles, recycling measures, proper dog waste disposal, and Fats, Oil, and Grease education.
Number of Sanitary Sewer Overflows	Zero (0) sanitary sewer overflows were reported in Permit Year 2. If they had occurred, then the MS4 would have addressed the overflow(s) as required by the TCEQ.
Increased Legal Authority on Storm Sewer System	The City's Ordinance was reviewed in Permit Year 2. Recommendations were made to help clarify and enforce the City's storm water management program. These recommendations will be further evaluated in the upcoming permit year for possible consideration and formal adoption.

E. Stormwater Activities

Describe activities planned for the next reporting year:

MCM(s)	BMP	Stormwater Activity	Description/Comments
1	1.3.1	Utility Bill Inserts	Update/revise the education material, as needed, and distribute education material annually to 100% to the community.
1	1.3.2	Utilize MS4 Website	Post the approved SWMP and submitted Annual Report to the MS4's website, when available. Continue to provide storm water quality educational information on the MS4's website.
1	1.4.1	Storm Drain Marking	Continue to offer volunteers the opportunity to replace missing/illegible markers, as needed, and provide quantity.
1	1.4.2	Volunteer Recycling Program	Continue the recycling program throughout the permit term and provide the number of households or pick-up frequency.
1	1.5.1	Opportunity for Public Comment	If available, the public notice will be published in accordance with the General Permit. Continue monthly public meetings and consider any received public comments regarding implementation of the SWMP.
2	2.3.1	MS4 Map	Update/revise new data related to the storm sewer system, if identified.
2	2.4.1	Training for Illicit Discharge Detection & Elimination	Hold at least one (1) training session annually and offer the training program to appropriate staff.
2	2.5.1	Public Reporting Using Utility Bill Inserts	Advertise the current contact information for the MS4 and distributed to 100% of the MS4 service area annually.
2	2.5.2	Public Reporting Using Electronic Education	Verify that the current contact information for the MS4 is correct on their website.

MCM(s)	BMP	Stormwater Activity	Description/Comments
2	2.6.1	Responding to Illicit Discharges & Spills	Respond to 100% of reported illicit discharges annually. Evaluate procedures for responding to reports and conducting appropriate actions that concern illicit discharges and update, if needed.
2	2.6.2	Source Investigation of Illicit Discharges	Investigate 100% of reported illicit discharges. Evaluate investigation procedures and update, if needed.
2	2.6.3	Source Elimination of Illicit Discharges	Eliminate 100% of reported illicit discharges, if applicable. Evaluate procedures for removing illicit discharges and update, if needed.
2	2.7.1	Evaluate the Ordinance for Illicit Discharges	Review and update, if needed, the Ordinance for necessary changes to ensure compliance with the General Permit.
3	3.3.1	Evaluate the Ordinance for Construction Site Storm Water Runoff Control	Review and update, if needed, the Ordinance for necessary changes to ensure compliance with the General Permit.
3	3.4.1	Construction Site Plan Review	Continue to conduct plan reviews of 100% of applicable submittals.
3	3.5.1	Construction Site Inspections & Enforcement	Continue to conduct construction site inspections on 100% of applicable construction sites.
3	3.6.1	Training for Construction Site Storm Water Runoff Control	Hold at least one (1) training session annually and offer the training program to appropriate staff.
3	3.7.1	Guidance Manual for Construction Site Storm Water Runoff Control	Continue utilizing the guidance manual to aid in implementing construction site BMPs, as necessary.
4	4.3.1	Evaluate the Ordinance to Address Post-Construction Runoff Control	Review and update, if needed, the Ordinance for necessary changes to ensure compliance with the General Permit.

MCM(s)	BMP	Stormwater Activity	Description/Comments
4	4.4.1	Guidance Manual for Post-Construction Storm Water Controls	Continue utilizing the guidance manual to aid in implementing post-construction site BMPs, as necessary.
4	4.5.1	Inspection Program for Post-Construction Storm Water Runoff Controls	Continue to conduct inspections on 100% of applicable sites.
4	4.6.1	Training for Post-Construction Storm Water Runoff Controls	Hold at least one (1) training session annually and offer the training program to appropriate staff.
5	5.3.1	Street Sweeping Measures	Continue to utilize the street sweeper and document mileage accumulated.
5	5.4.1	Inventory of Facilities & Storm Water Structural Controls	Continue to maintain an MS4 inventory list of 100% permittee-owned facilities and storm water structural controls and update, as needed.
5	5.5.1	Training for Pollution Prevention & Good Housekeeping	Hold at least one (1) training session annually and offer the training program to appropriate staff.
5	5.6.1	Disposal of Waste	Verify a spill response kit(s) is available for the MS4 and that waste from municipal operations is removed in accordance with 30 TAC 330 and 335.
5	5.7.1	Contractor Oversight	Include language in Contractor legal documents to restrict illicit discharges that have the potential to negatively impact the MS4.
5	5.8.1	Inspections & Assessment on Facilities	Continue to inspect and document 100% of permittee-owned facilities and storm water structural controls. The inspections will be documented and recommendations, if needed, will be provided.
5	5.8.2	Municipal Operation & Maintenance Activities	Identify and evaluate all operation and maintenance activities for their potential to discharge pollutants in stormwater.

MCM(s)	BMP	Stormwater Activity	Description/Comments
5	5.8.3	Assessment of Storm & Sanitary Sewer Systems	Immediately address all known sanitary sewer overflows and report to the TCEQ. Document this information and seek trends to avoid future sanitary sewer overflow activity.

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:

MCM(s)	Measurable Goal(s) or BMP(s)	Implemented or Proposed Changes (Submit NOC as needed)
Please reference attached email for additional information		

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.

TCEQ requested extensive changes to the SWMP upon TCEQ’s technical review of the submitted SWMP. These changes affected all the BMPs and their measurable goals. In lieu of providing the entire, revised proposed changes in the table above, the MS4 references an email dated January 7, 2020 between Dante Fekete (Dante.Fekete@tceq.texas.gov) and Liz Stone (mstone@jonescarter.com) entitled *RE: TXR040227 – City of Jersey Village*. This correspondence has been attached after the cover letter, minus the attachments.

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.

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 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). N/A

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? N/A

Yes No

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):

13 construction activities occurred in the jurisdictional area.

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:

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

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): Harry Ward

Title: Public Works Director

Signature: 

Date: 12/7/20

Name of MS4: City of Jersey Village MS4