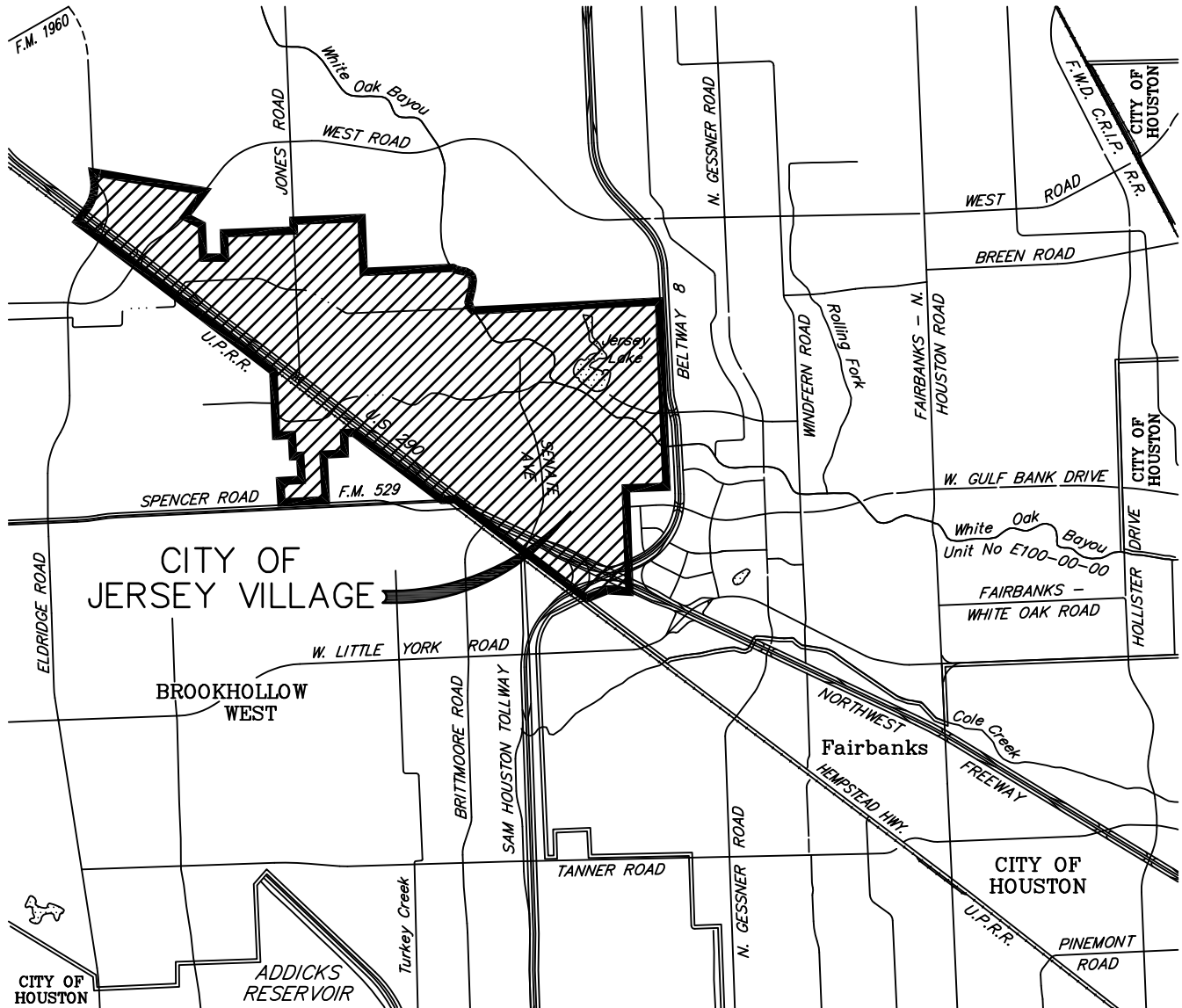


# MS4 ANNUAL REPORT PERMIT YEAR 1: 2018-2019

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



December 2019  
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): 1

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): December 13, 2018

Reporting period end date: (month/date/year): September 30, 2019

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)

	<b>Yes</b>	<b>No</b>	<b>Explain</b>
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.

	Yes	No	Explain
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. Public Education, Outreach, and Involvement	3.1 Utility Bill Inserts	YES. The MS4 distributed 2,411 storm water educational inserts in the March 2019 <i>Jersey Village Star</i> newsletter to the public regarding municipal storm sewer discharge and recycling issues.
1. Public Education, Outreach, and Involvement	3.2 Utilize MS4 Website	YES. The MS4 posts the inserts (or newsletters) on their website <a href="https://www.jerseyvillagetx.com/page/city.news">https://www.jerseyvillagetx.com/page/city.news</a> . Additionally, the MS4 provided recycling tips/guidelines, household hazardous waste (HHW), and electronic recycling information on their website <a href="https://www.jerseyvillagetx.com/page/pw.garbage">https://www.jerseyvillagetx.com/page/pw.garbage</a> . The MS4 will continue to utilize their website for the duration of the permitting term.

<b>MCM(s)</b>	<b>BMP</b>	<b>BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)</b>
1. Public Education, Outreach, and Involvement	4.1 Storm Drain Marking	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 1; 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.
1. Public Education, Outreach, and Involvement	4.2 Recycling Program	YES. A weekly recycling program was continued to be conducted and provided for all residents within the MS4. The recycling program reduces the amount of materials which are not properly disposed and may impact local waterways.
2. Illicit Discharge Detection and Elimination	3.1 Maps of Inlets, Storm Sewer Lines, Outfalls, Surface Water & Structural Controls	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 1.
2. Illicit Discharge Detection and Elimination	4.1 Training for Illicit Discharge Detection & Elimination	YES. The MS4 Training Session was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator. The training session described the impacts storm water discharges have on local water ways and how to identify illicit discharges or illegal connections.
2. Illicit Discharge Detection and Elimination	5.1 Public Reporting Using Utility Bill Inserts	YES. The MS4 distributed 2,411 educational inserts in March 2019 to residents which instructed the residents to call the city to report code violations and other pollution concerns.

<b>MCM(s)</b>	<b>BMP</b>	<b>BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)</b>
2. Illicit Discharge Detection and Elimination	5.2 Public Reporting Using Electronic Education	YES. The MS4 continued to post the phone number on the MS4's main page <a href="https://www.jerseyvillagetx.com/">https://www.jerseyvillagetx.com/</a> to call if an illicit discharge is suspected. Zero (0) illicit discharges were reported electronically in Permit Year 1.
3. Construction Site Storm Water Runoff Control	6.1 Training for Construction Site Stormwater Runoff Control	YES. The MS4 Training Session was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator. The MS4 Administrator provided educational training on the MS4's construction site storm water runoff control program. The educational training informed personnel how to conduct construction site inspections. The training materials covered enforcement actions to ensure all construction sites maintain compliance with the Construction General Permit TPDES No. TXR150000.
4. Post-Construction Storm Water Management in New Development and Redevelopment	6.1 Training for Post-Construction Stormwater Controls	YES. The MS4 Training Session was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator. They provided educational training on the post-construction site storm water runoff control program. The training outlined the requirements all owners and operators of new development and redevelopment sites must achieve. They are required to install and maintain a combination of structural and nonstructural BMPs appropriate for protecting the MS4 surface waters.
5. Pollution Prevention/Good Housekeeping for Municipal Operations	3.1 Street Sweeping Measures	YES. The MS4 purchased a street sweeper in a previous permit year. The primary use is directed towards city-sponsored events, parades, and cleanup after major storm events. Approximately, 399 miles of city roads were swept during Permit Year 1.

<b>MCM(s)</b>	<b>BMP</b>	<b>BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)</b>
5. Pollution Prevention/Good Housekeeping for Municipal Operations	5.1 Training for Pollution Prevention & Good Housekeeping	YES. The MS4 Training Session was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator. The MS4 Administrator provided educational training on how to effectively implement pollution prevention and good housekeeping practices in municipal activities and municipally owned facilities.
5. Pollution Prevention/Good Housekeeping for Municipal Operations	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. Two (2) spill response kits were supplied for the MS4 at the Waste Water Treatment Plant and will be annually inspected to be in good-working order.
5. Pollution Prevention/Good Housekeeping for Municipal Operations	8.1 Inspections & Assessment on Facilities	YES. The MS4 inspected and assessed six (6) municipal facilities for storm water impairments during Permit Year 1. No deficiencies were observed during the inspections, so corrective actions were not warranted. These inspections will be performed annually.
5. Pollution Prevention/Good Housekeeping for Municipal Operations	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.Public Education, Outreach, and Involvement	3.1	Utility Bill Inserts	2,411	<i>Jersey Village Star</i> Newsletter	NO. Though this BMP does not result in a direct reduction of pollutants; this storm water educational inserts provided public education to residents on good housekeeping principles and recycling measures.
1.Public Education, Outreach, and Involvement	3.2	Utilize MS4 Website	1	MS4 Website	NO. The MS4 posts the newsletters on their website <a href="https://www.jerseyvillagetx.com/page/city.news">https://www.jerseyvillagetx.com/page/city.news</a> . Additionally, the MS4 provided recycling tips/guidelines, household hazardous waste (HHW), and electronic recycling information on their website <a href="https://www.jerseyvillagetx.com/page/pw.garbage">https://www.jerseyvillagetx.com/page/pw.garbage</a> . This tool does not directly reduce pollutants into the receiving stream, but helps to educate the public.



<b>MCM</b>	<b>BMP</b>	<b>Information Used</b>	<b>Quantity</b>	<b>Units</b>	<b>Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)</b>
1.Public Education, Outreach, and Involvement	4.1	Storm Drain Marking	300	Inlet Markers	YES. Approximately, 300 inlet markers have been placed to date by volunteers. The inlet markers are a mechanism of raising public awareness, which ultimately reduce and prevent direct illicit discharges by residents and visitors. These can have a direct reduction in pollutants.
1.Public Education, Outreach, and Involvement	4.2	Recycling Program	52	Weekly	YES. A weekly recycling program continued to be conducted and provided for all residents within the MS4. The recycling program allows direct public involvement to reduce pollutants in the storm sewer system and promotes good housekeeping principals.
1.Public Education, Outreach, and Involvement	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. In accordance with the General Permit, the SWMP and Annual Reports will be posted to the MS4's website when available. 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 1.

<b>MCM</b>	<b>BMP</b>	<b>Information Used</b>	<b>Quantity</b>	<b>Units</b>	<b>Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)</b>
2. Illicit Discharge Detection and Elimination	3.1	Maps of Inlets, Storm Sewer Lines, Outfalls, Surface Waters, & Structural Controls	1	MS4 Map	NO. The MS4 map which identifies the approximate location of all inlets, outfalls, surface waters, and structural controls was evaluated and no updates were needed in Permit Year 1. This BMP does not demonstrate a direct reduction in pollutants, but assists with reported illicit discharges.
2. Illicit Discharge Detection and Elimination	4.1	Training for Illicit Discharge Detection and Elimination	1	Training Program	YES. The MS4 Training Session was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator. The training presentation described the impacts storm water discharges have on local water ways and how to identify illicit discharges or illegal connections and can have a direct reduction in pollutants. City personnel attended the training and were provided a copy of the presentation.
2. Illicit Discharge Detection and Elimination	5.1	Public Reporting Using Utility Bill Insert	2,411	<i>Jersey Village Star</i> Newsletter	YES. The MS4 distributed 2,411 educational inserts to residents which included a telephone number to report illicit discharges and other pollution violations. This BMP can directly impact the reduction of pollutants in stormwater.

<b>MCM</b>	<b>BMP</b>	<b>Information Used</b>	<b>Quantity</b>	<b>Units</b>	<b>Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)</b>
2. Illicit Discharge Detection and Elimination	5.2	Public Reporting Using Electronic Education	1	Website	YES. The MS4's provides a phone number to report illicit discharges into the city's storm sewer system on the city's homepage <a href="https://www.jerseyvillagetx.com/">https://www.jerseyvillagetx.com/</a>
2. Illicit Discharge Detection and Elimination	7.1	Evaluate the Ordinance for Illicit Discharge Detection & Elimination	1	Ordinance	YES. The City's Ordinance was amended in a previous permitting term. No changes were recommended for Permit Year 1. The Ordinance will be reviewed after the SWMP has been approved by the TCEQ. It can have a direct reduction in pollutants.
3. Construction Site Storm Water Runoff Control	3.1	Evaluate the Ordinance for Construction Site Storm Water Runoff Control	1	Ordinance	YES. The City's Ordinance was amended in a previous permitting term. No changes were recommended for Permit Year 1. The Ordinance will be reviewed after the SWMP has been approved by the TCEQ. It can have a direct reduction in pollutants.
3. Construction Site Storm Water Runoff Control	4.1	Construction Site Plan Review	2	Construction Drawings	NO. The City reviewed two (2) construction drawings that resulted in a 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 1. This BMP does not directly reduce pollutants in the MS4.

<b>MCM</b>	<b>BMP</b>	<b>Information Used</b>	<b>Quantity</b>	<b>Units</b>	<b>Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)</b>
3. Construction Site Storm Water Runoff Control	5.1	Construction Site Inspection & Enforcement	14	Construction Site Inspections	YES. The City conducted approximately fourteen (14) construction inspections within the city limits during Permit Year 1. 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.
3. Construction Site Storm Water Runoff Control	6.1	Training for Construction Site Storm Water Runoff Control	1	Training Program	YES. The MS4 Training Session was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator which provided educational training on the MS4's construction site storm water runoff control program. City personnel attended the training and were provided a copy of the presentation.

<b>MCM</b>	<b>BMP</b>	<b>Information Used</b>	<b>Quantity</b>	<b>Units</b>	<b>Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)</b>
3. Construction Site Storm Water Runoff Control	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. Post-Construction Storm Water Management in New Development and Redevelopment	3.1	Evaluate the Ordinance to Address Post-Construction Stormwater Runoff Control	1	Ordinance	YES. The City's Ordinance was amended in a previous permitting term. No changes were recommended for Permit Year 1. The Ordinance will be reviewed after the SWMP has been approved by the TCEQ. It 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. Post-Construction Storm Water Management in New Development and Redevelopment	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. Post-Construction Storm Water Management in New Development and Redevelopment	5.1	Inspection Program for Post-Construction Storm Water Runoff Controls	11	Post-Construction Inspections	YES. The MS4 performed eleven (11) 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.

<b>MCM</b>	<b>BMP</b>	<b>Information Used</b>	<b>Quantity</b>	<b>Units</b>	<b>Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)</b>
4. Post-Construction Storm Water Management in New Development and Redevelopment	6.1	Training for Post-Construction Storm Water Controls	1	Training Program	YES. The MS4 Training Session was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator who provided education training on the post-construction site storm water runoff control program. City personnel attended the training and were provided a copy of the presentation.
5. Pollution Prevention and Good Housekeeping for Municipal Operations	3.1	Street Sweeping Measures	399	Miles of Streets Swept	YES. Approximately, 399 miles of city streets were cleaned during Permit Year 1. This BMP has a direct reduction of pollutants into the storm sewer system.
5. Pollution Prevention and Good Housekeeping for Municipal Operations	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 revisions were not needed in Permit Year 1. This list does not have a direct reduction in pollutants in the MS4.

<b>MCM</b>	<b>BMP</b>	<b>Information Used</b>	<b>Quantity</b>	<b>Units</b>	<b>Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)</b>
5. Pollution Prevention and Good Housekeeping for Municipal Operations	5.1	Training for Pollution Prevention & Good Housekeeping	1	Training Program	YES. The MS4 Training Program was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator who provided educational training on implementing pollution prevention measures and good housekeeping principals for municipal activities and municipally owned facilities. City personnel attended the training and were provided a copy of the presentation.
5. Pollution Prevention and Good Housekeeping for Municipal Operations	6.1	Disposal of Waste	2	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. Two (2) spill response kits were supplied for the MS4 at the Waste Water Treatment Plant and will be annually inspected to be in good-working order. These BMPs have a direct reduction in pollutants.



<b>MCM</b>	<b>BMP</b>	<b>Information Used</b>	<b>Quantity</b>	<b>Units</b>	<b>Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)</b>
5. Pollution Prevention and Good Housekeeping for Municipal Operations	7.1	Contractor Oversight	1	Program in Development	YES. The MS4 is developing language to include in all new contracts for contractors performing municipal activities including maintenance. The text will be reviewed by the City Attorney for conformance with the requirements in the General Permit. This program does have the potential to directly reduce pollutants in the MS4.
5. Pollution Prevention and Good Housekeeping for Municipal Operations	8.1	Inspections & Assessments on Facilities	6	Facility Inspections	YES. The MS4 inspected and assessed six (6) municipal facilities for storm water quality impairments during Permit Year 1. No deficiencies were observed during the inspections, so corrective actions were not warranted. These inspections will be performed annually. This BMP can potentially reduce pollutants directly into the MS4.
5. Pollution Prevention and Good Housekeeping for Municipal Operations	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.Public Education, Outreach, and Involvement	3.1 Utility Bill Inserts	MET GOAL. A total of 2,411 storm water quality educational inserts/newsletter were distributed to the community with the residents’ utility bills in March 2019. The insert provides public education to residents on good housekeeping principles and recycling measures.
1.Public Education, Outreach, and Involvement	3.2 Utilize MS4 Website	MET GOAL. The MS4 posts the inserts (or newsletters) on their website <a href="https://www.jerseyvillagetx.com/page/city.news">https://www.jerseyvillagetx.com/page/city.news</a> . Additionally, the MS4 provided recycling tips/guidelines, household hazardous waste (HHW), and electronic recycling information on their website <a href="https://www.jerseyvillagetx.com/page/pw.garbage">https://www.jerseyvillagetx.com/page/pw.garbage</a> .
1.Public Education, Outreach, and Involvement	4.1 Storm Drain Marking	MET GOAL. Approximately, 300 inlet markers have been placed to date by volunteers. The inlet markers are a mechanism of raising public awareness, which ultimately reduce and prevent illicit discharges by residents and visitors.
1.Public Education, Outreach, and Involvement	4.2 Recycling Program	MET GOAL. A weekly volunteer recycling program continued to be conducted and provided for all residents within the MS4. The recycling program allows public involvement to reduce pollutants in the storm sewer system and promotes good housekeeping principals. Additionally, a list of acceptable items and how to prepare the items are available on the MS4’s website.
1.Public Education, Outreach, and Involvement	5.1 Opportunity for Public Comment	MET GOAL. All monthly City Council Meetings are open to the public. All residents and businesses within the MS4 area can comment on the SWMP; no comments were received in Permit Year 1.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
2. Illicit Discharge Detection and Elimination	3.1 Maps of Inlets, Storm Sewer Lines, Outfalls, Surface Waters, and Structural Controls	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 1.
2. Illicit Discharge Detection and Elimination	4.1 Training for Illicit Discharge Detection & Elimination	MET GOAL. The MS4 Training Session was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator. The training presentation described the impacts storm water discharges have on local water ways and how to identify illicit discharges or illegal connections. City personnel attended the training and was provided a copy of the presentation.
2. Illicit Discharge Detection and Elimination	5.1 Public Reporting Using Utility Bill Inserts	MET GOAL. A total of 2,411 storm water education inserts were distributed to the community. The inserts included the City's appropriate telephone number so users of the MS4 can report illicit discharges and other pollution violations.
2. Illicit Discharge Detection and Elimination	5.2 Public Reporting Using Electronic Education	MET GOAL. The MS4's provides a phone number to report illicit discharges into the city's storm sewer system on the city's homepage <a href="https://www.jerseyvillagetx.com/">https://www.jerseyvillagetx.com/</a>
2. Illicit Discharge Detection and Elimination	6.1 Responding to Illicit Discharges & Spills	MET GOAL. Even though zero (0) illicit discharges were reported in Permit Year 1, the MS4 has a program in place to respond, detect, and address illicit discharges and spills.
2. Illicit Discharge Detection and Elimination	6.2 Source Investigation of Illicit Discharges	MET GOAL. Even though zero (0) illicit discharges were reported in Permit Year 1, the MS4 has a program in place to gather the appropriate information, prioritize the risk, and assess the situation.

<b>MCM(s)</b>	<b>Measurable Goal(s)</b>	<b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>
2. Illicit Discharge Detection and Elimination	6.3 Source Elimination of Illicit Discharges	MET GOAL. Even though zero (0) illicit discharges were reported in Permit Year 1, the MS4 has a program in place to safely remove illicit discharges and prevent the unauthorized discharge from affecting the MS4.
2. Illicit Discharge Detection and Elimination	7.1 Evaluate the Ordinance for Illicit Discharge Detection & Elimination	MET GOAL. The MS4's Ordinance was amended in a previous permitting term. No changes were recommended in Permit Year 1. The Ordinance will be reviewed after the SWMP has been approved by the TCEQ.
3. Construction Site Storm Water Runoff Control	3.1 Evaluate the Ordinance for Construction Site Storm Water Runoff Control	MET GOAL. The MS4's Ordinance was amended in a previous permitting term. No changes were recommended in Permit Year 1. The Ordinance will be reviewed after the SWMP has been approved by the TCEQ.
3. Construction Site Storm Water Runoff Control	4.1 Construction Site Plan Review	MET GOAL. Two (2) construction drawings were received and reviewed on applicable projects to prevent water quality impacts within the MS4. A variety of items were evaluated such as erosion and sediment controls, best management practices, and soil stabilization.
3. Construction Site Storm Water Runoff Control	5.1 Construction Site Inspection & Enforcement	MET GOAL. Fourteen (14) construction inspections were performed during this permit year. The Construction Inspector inspected the construction sites during the preliminary stages to ensure all BMPs are properly installed.
3. Construction Site Storm Water Runoff Control	6.1 Training for Construction Site Storm Water Runoff Control	MET GOAL. The MS4 Training Session was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator. City personnel attended the training and were provided a copy of the presentation.

MCM(s)	Measurable Goal(s)	Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.
3. Construction Site Storm Water Runoff Control	7.1 Guidance Manual for Construction Site Storm Water Runoff Control	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 was continued to be utilized to aid in implementing construction site BMPs.
4. Post Construction Storm Water Management in New Development and Redevelopment	3.1 Evaluate the Ordinance to Address Post-Construction Stormwater Runoff Control	MET GOAL. The MS4's Ordinance was amended in a previous permitting term. No changes were recommended in Permit Year 1. The Ordinance will be reviewed after the SWMP has been approved by the TCEQ.
4. Post Construction Storm Water Management in New Development and Redevelopment	4.1 Guidance Manual for Post-Construction Storm Water Controls	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 was continued to be 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.
4. Post Construction Storm Water Management in New Development and Redevelopment	5.1 Inspection Program for Post-Construction Storm Water Controls	MET GOAL. The MS4 performed eleven (11) 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.

<b>MCM(s)</b>	<b>Measurable Goal(s)</b>	<b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>
4. Post Construction Storm Water Management in New Development and Redevelopment	6.1 Training for Post-Construction Storm Water Controls	MET GOAL. The MS4 Training Session was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator. The MS4 Administrator provided education training on the post-construction site storm water runoff control program.
5. Pollution Prevention and Good Housekeeping for Municipal Operations	3.1 Street Sweeping Measures	MET GOAL. Approximately, 399 miles of city streets were cleaned during Permit Year 1. Its primary purpose is general maintenance before and/or after city-sponsored events and parades.
5. Pollution Prevention and Good Housekeeping for Municipal Operations	4.1 Inventory of Facilities & Storm Water Structural Controls	MET GOAL. The MS4 developed an inventory list of facilities in a previous permitting term. The list was evaluated and no updates were need in Permit Year 1.
5. Pollution Prevention and Good Housekeeping for Municipal Operations	5.1 Training for Pollution Prevention & Good Housekeeping	MET GOAL. The MS4 Training Program was conducted on June 19, 2019 through a webinar hosted by the MS4 Administrator. The MS4 Administrator provided educational training on implementing pollution prevention measures and good housekeeping principals for municipal activities and municipally owned facilities.

<b>MCM(s)</b>	<b>Measurable Goal(s)</b>	<b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>
5. Pollution Prevention and Good Housekeeping for Municipal Operations	6.1 Disposal of Waste	MET GOAL. All waste from facilities owned and operated by the MS4 were disposed in accordance with 30 TAC Chapters 330 or 335. Two (2) spill response kits were supplied from the MS4 at the Waste Water Treatment Plant and will be annually inspected to be in good-working order.
5. Pollution Prevention and Good Housekeeping for Municipal Operations	7.1 Contractor Oversight	MET GOAL. The MS4 is drafting language to include in new municipal contracts for contractors performing municipal activities including maintenance. It is expected this text will be finalized and used in Permit Year 2.
5. Pollution Prevention and Good Housekeeping for Municipal Operations	8.1 Inspections & Assessments on Facilities	MET GOAL. The MS4 inspected and assessed six (6) municipal facilities for storm water impairments during Permit Year 1. No deficiencies were observed during the inspections, so corrective actions were not warranted.
5. Pollution Prevention and Good Housekeeping for Municipal Operations	8.2 Municipal Operation & Maintenance Activities	MET GOAL. 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.

## 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. The MS4 has provided qualitative information as proof of successfully achieving the measurable goals and benchmarks.

The MS4 distributed 2,411 inserts in the *Jersey Village Star* newsletter containing stormwater educational information to the public. In March 2019, the MS4 distributed the City newsletter to residents on storm water education, code violations, and included the phone number to report any pollution violations or questions. In addition to this newsletter being mailed to each resident and business in the MS4, an electronic version is also available on the city's website [https://www.jerseyvillagetx.com/upload/page/0070/docs/2019/03-2019\\_Mar\\_Newsletter.pdf](https://www.jerseyvillagetx.com/upload/page/0070/docs/2019/03-2019_Mar_Newsletter.pdf).

Inlet markers are a mechanism of raising public awareness to ultimately reduce and prevent illicit discharges into the MS4. To date approximately 300 inlet markers have been marked by volunteers. No groups were interested in volunteering in Permit Year 1; 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.

The MS4 performed fourteen (14) construction inspections for erosion control in accordance with TPDES CGP No. TXR150000 to ensure no threat exists to the environment because of construction activities. The Constructor Inspector inspects the construction sites during the preliminary stages to ensure all BMPs are properly installed and for the construction sites to maintain complain with the TPDES CGP No. TXR150000.

The MS4's street sweeper cleaned approximately 399 miles of city streets in Permit Year 1. The street sweeper was used before and/or after city-sponsored events, parades, and cleanup after major storm events. 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 to classified segment 1017 White Oak Bayou Above Tidal. This classified segment is listed in the recent EPA-approved 303(d) list and *the 2016 Texas Integrated Report- Texas 303(d) List (Category 5)* that was approved by the EPA on August 6, 2019. It is impaired for bacteria. This is not a new addition to either document and is listed on the Notice of Intent.

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.

All BMPs included in the SWMP have measureable goals focused on reducing pollutants of concern that contribute to the impairment of bacteria in waterbodies. All focused BMPs will be fully implemented by the end of Permit Year 5. Quantitative information concerning activities taken to address the impairment can be found in the Section C – Stormwater Data Summary.

Program to Detect and Address Illicit Discharge – City personnel are trained annually to properly identify, address, and remove illicit discharges detected with the MS4. If enforcement actions are necessary, the MS4 relies on the MS4's City Ordinance to assess fines and violations. In Permit Year 1, no illicit discharges were reported nor detected.

Construction Site Inspection and Enforcement – The MS4 has a program in place to evaluate construction sites to ensure no threat exists to the environment as a result of construction activities. The sites are evaluated in accordance with the TPDES Construction General Permit No. TXR150000. A variety of items are evaluated such as erosion and sediment controls, best management practices, and soil stabilization.

Evaluate and Update Plan Review and Inspection Programs – The MS4 has a program in place to evaluate post-construction sites and ensure permanent storm water quality structural controls are properly constructed to reduce the potential impacts from illicit discharges.

Sewer and Drainage System Inspection and Maintenance – The MS4 has a program in place to review and evaluate municipal activities and operations as they relate to stormwater quality. This includes performing maintenance and repairs, if needed, to the system, including wastewater treatment plants and lift stations.

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 adopted *Eighteen Total Maximum Daily Loads (TMDLs) for Bacteria in Buffalo and Whiteoak Bayous and Tributaries* for numerous classified segment located in the San Jacinto River Basin. The City of Jersey Village MS4 discharges storm water to one of the classified segments of the 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 properly limits. 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 1. As a result of these observations, all discharges from the MS4 were unlikely to contain concerning levels of pollutants and 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 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:

<b>Benchmark Parameter</b>	<b>Benchmark Value</b>	<b>Description of additional sampling or other assessment activities</b>	<b>Year(s) conducted</b>
Bacteria	9.14 x 10 <sup>9</sup> 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 1
Bacteria	9.14 x 10 <sup>9</sup> 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 1

<b>Benchmark Parameter</b>	<b>Benchmark Value</b>	<b>Description of additional sampling or other assessment activities</b>	<b>Year(s) conducted</b>
Bacteria	9.14 x 10 <sup>9</sup> 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 1
Bacteria	9.14 x 10 <sup>9</sup> 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 1
Bacteria	9.14 x 10 <sup>9</sup> 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 1
Bacteria	9.14 x 10 <sup>9</sup> 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 1
Bacteria	9.14 x 10 <sup>9</sup> 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 1

<b>Benchmark Parameter</b>	<b>Benchmark Value</b>	<b>Description of additional sampling or other assessment activities</b>	<b>Year(s) conducted</b>
Bacteria	9.14 x 10 <sup>9</sup> 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 1

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

<b>Benchmark Parameter</b>	<b>Selected BMP</b>	<b>Contribution to achieving Benchmark</b>
Bacteria	Educational Materials	Educational materials raised awareness of stormwater quality concerns and encourage public reporting when illicit discharges were identified and detected.
Bacteria	Public Outreach Efforts	Public involvement is essential to raise awareness on illicit discharges for pollution source control and prevention measures.
Bacteria	Urban Nonpoint Sources from Storm Water Management Efforts	Restricting illicit discharge from construction activities reduces the probability of bacteria entering the storm sewer system.

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

<b>Pollutant to Address</b>	<b>Description of bacteria-focused BMP</b>	<b>Comments/Discussion</b>
Bacteria	1.3.1 Utility Bill Inserts 1.4.1 Storm Drain Marking	The MS4 distributed newsletter to all residents and businesses in the service area educating them on storm water quality and how to report illicit discharges.  Inlet markers are installed to remind the public that only stormwater is allowed in the storm drains. All other items that are discharged are considered an illicit discharge.
Bacteria	2.6.1 Responding to Illicit Discharges & Spills	The field staff was trained to observe water quality control measures on BMPs to minimize the discharge of pollutants from equipment and vehicle washing, building materials and products, construction waste and trash, fertilizers, pesticides, herbicides, sanitary waste, spills, and leaks.
Bacteria	5.8.1 Inspection & Assessment on Facilities Municipal Operation & Maintenance Activities	The MS4 inspected City facilities and storm water structural controls to verify these facilities do not contribute illicit discharges. No corrective action was necessary based on these inspections.

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

<b>Benchmark Indicator</b>	<b>Description/Comments</b>
Number of Illicit Discharges Reported	Even though zero illicit discharges were identified, the MS4 has a program in place to respond, investigate, and eliminate any potential illicit discharge.
Pollution prevention procedures to reduce waste within the MS4	A residential recycling program was conducted weekly. All waste was properly disposed.
Preventative Maintenance on Facilities within the MS4 Service Area	City personnel performed maintenance on sanitary sewer facilities, as needed. Activities include maintaining the lift stations, cleaning the storm sewer and sanitary sewer lines, removing blockages, and repairing the sewer systems.

<b>Benchmark Indicator</b>	<b>Description/Comments</b>
Number of Educational Materials Distributed to the Community	A total of 2,411 storm water education material were mailed to residents within the MS4 service area. The information addressed good housekeeping principles and recycling measures.
Public Involvement/Participation	The MS4 encouraged public involvement in the City's inlet marking program.
Number of Sanitary Sewer Overflows	Zero (0) sanitary sewer overflows were reported in Permit Year 1. If they had occurred, then the MS4 would have addressed the overflow(s) as required by the TCEQ.

## **E. Stormwater Activities**

Describe activities planned for the next reporting year:

<b>MCM(s)</b>	<b>BMP</b>	<b>Stormwater Activity</b>	<b>Description/Comments</b>
1	1.3.1	Utility Bill Inserts	Update/revise the education material, as needed, and distribute education material 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 place markers in the service area.
1	1.4.2	Volunteer Recycling Program	Continue the volunteer recycling program throughout the permit term. Continue to provide on the MS4 website recycling guidelines.

<b>MCM(s)</b>	<b>BMP</b>	<b>Stormwater Activity</b>	<b>Description/Comments</b>
1	1.5.1	Opportunity for Public Comment	If available, the public notice will be published in accordance with the General Permit. 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	Update/revise the training program, as needed, for illicit discharges. Offer the training program to City personnel.
2	2.5.1	Public Reporting Using Utility Bill Inserts	Update/revise the educational material to ensure contact information for the MS4 is current.
2	2.5.2	Public Reporting Using Electronic Education	Update/revise the MS4 contact information to ensure it is correct on their website.
2	2.6.1	Responding to Illicit Discharges & Spills	Respond to 100% of reported illicit discharges and conduct appropriate actions.
2	2.6.2	Source Investigation of Illicit Discharges	Evaluate procedures to investigate illicit discharges. Develop written inspection and follow-up procedures for illicit discharge investigations.
2	2.6.3	Source Elimination of Illicit Discharges	Evaluate procedures for removing illicit discharges from affecting the MS4. Continue to document corrective actions performed.
2	2.7.1	Evaluate the Ordinance for Illicit Discharges	Review the Ordinance for any necessary changes to ensure compliance with the General Permit.

<b>MCM(s)</b>	<b>BMP</b>	<b>Stormwater Activity</b>	<b>Description/Comments</b>
3	3.3.1	Evaluate the Ordinance for Construction Site Storm Water Runoff Control	Review the Ordinance for any necessary changes to ensure compliance with the General Permit.
3	3.4.1	Construction Site Plan Review	Continue to conduct plan reviews to ensure no discharges occur as a result of pollutants from applicable construction sites per the TPDES Construction General Permit No. TXR150000.
3	3.5.1	Construction Site Inspections & Enforcement	Continue to conduct construction site inspections on all applicable construction projects in accordance with TPDES Construction General Permit No. TXR150000.
3	3.6.1	Training for Construction Site Storm Water Runoff Control	Update/revise the training program, as needed. Offer the training program to City personnel.
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 the Ordinance for any necessary changes to ensure compliance with the General Permit.
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.



<b>MCM(s)</b>	<b>BMP</b>	<b>Stormwater Activity</b>	<b>Description/Comments</b>
4	4.5.1	Inspection Program for Post-Construction Storm Water Runoff Controls	Continue to conduct inspections on all applicable, completed projects.
4	4.6.1	Training for Post-Construction Storm Water Runoff Controls	Update/revise the training program, as needed. Offer the training program to City personnel.
5	5.3.1	Street Sweeping Measures	Continue to utilize the street sweeper and keep track of the mileage accumulated.
5	5.4.1	Inventory of Facilities & Storm Water Structural Controls	Continue to maintain an MS4 inventory list and update it, as needed.
5	5.5.1	Training for Pollution Prevention & Good Housekeeping	Update/revise the training program, as needed. Offer the training program to City personnel.
5	5.6.1	Disposal of Waste	Continue to ensure spill response kits are still available for the MS4. Evaluate methods of waste disposal to ensure all waste is properly disposed and does not contributed as illicit material.
5	5.7.1	Contractor Oversight	Continue to provide oversight for the MS4 to ensure all contractors are using the appropriate BMPs, control measures, and standard operating procedures.
5	5.8.1	Inspections & Assessment on Facilities	Continue to inspect and document all facilities and storm water structural controls based on the MS4's inventory list. The inspections will be documented and recommendations, if needed, will be provided.

<b>MCM(s)</b>	<b>BMP</b>	<b>Stormwater Activity</b>	<b>Description/Comments</b>
5	5.8.2	Municipal Operation & Maintenance Activities	Identify and evaluate all operation and maintenance activities for their potential to discharge pollutants in stormwater.

## 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	N/A	N/A

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

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	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):

0

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>	<b>N/A</b>
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: Dir. Public Works

Signature:  Date: 12/18/19

Name of MS4: City of Jersey Village MS4