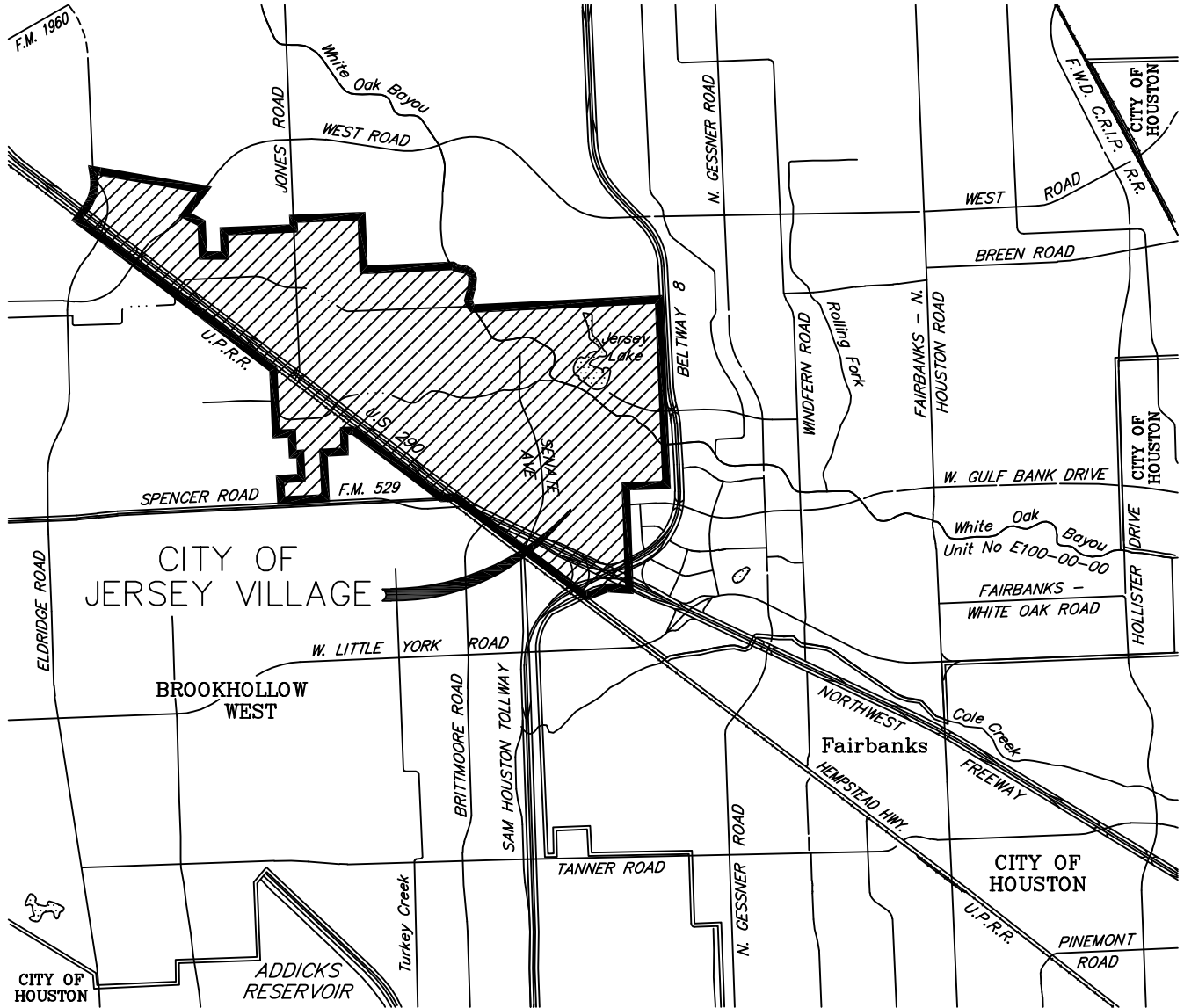


# PHASE II MS4 ANNUAL REPORT PERMIT YEAR 4

October 1, 2021 – September 30, 2022

## CITY OF JERSEY VILLAGE

HARRIS COUNTY, TEXAS  
TPDES Authorization No. TXR040227



December 2022

Quiddity Job No. 05440-0003-00



# QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290  
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): 3

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, 2021

Reporting period end date: (month/date/year): September 30, 2022

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 77380

E-mail Address: lstone@quiddity.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; all Permit Year 4 BMPs have been completed.
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 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 part of the preparation of the Annual Report.

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

<b>MCM</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 & Involvement	3.1 Utility Bill Inserts	YES. The MS4 distributed approximately 2,230 stormwater educational inserts in the December 2021, January 2022, and February 2022 issues of the <i>Jersey Village Star</i> newsletter educating residents about illegal dumping, Fats, Oils, and Grease (FOG) proper disposal, and residential trash and recycling information. In all, approximately 6,690 inserts were distributed.
1. Public Education, Outreach & Involvement	3.2 Utilize MS4 Website	YES. The MS4 has a dedicated website for their MS4 program <a href="https://www.jerseyvillagetx.com/page/pw.ms4">https://www.jerseyvillagetx.com/page/pw.ms4</a> . The City posts previous submitted Annual Reports, various stormwater quality educational material, information about Fats, Oils, and Grease (FOG) and advertised the illicit discharge reporting phone number and inlet marking program. Additionally, the newsletters are also located on their website <a href="https://www.jerseyvillagetx.com/page/city.news">https://www.jerseyvillagetx.com/page/city.news</a> . Recycling tips/guidelines, household hazardous waste (HHW), and electronic recycling information was also shared on the MS4's 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.
1. Public Education, Outreach & Involvement	4.1 Storm Drain Marking	YES. Approximately 250 inlet markers were installed in Permit Year 4. The MS4 will continue promoting the inlet marking program for volunteers to install new inlet markers in the upcoming permit year.
1. Public Education, Outreach & Involvement	4.2 Recycling Program	YES. A weekly, volunteer, residential recycling program continued to be offered in the MS4 service area. Bulk waste items such as refrigerators (free of freon) and tree trimmings are also accepted. This reduces the occurrence of these items being illegal dumped.

<b>MCM</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 & 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 4.
2. Illicit Discharge, Detection & Elimination	4.1 Training for Illicit Discharge Detection & Elimination	YES. An MS4 Training Session was conducted on July 12, 2022 through a webinar. The training presentation described the impacts stormwater discharges have on local water ways and how to identify illicit discharges, illegal connections, and illegal dumping. The recorded presentation was also placed on a consultant's website <a href="https://quiddity.com/municipal-separate-storm-sewer-system-training/">https://quiddity.com/municipal-separate-storm-sewer-system-training/</a> .
2. Illicit Discharge, Detection & Elimination	5.2 Public Reporting Using Electronic Education	YES. The MS4 continued to post the phone number on the MS4's main webpage <a href="https://www.jerseyvillagetx.com/">https://www.jerseyvillagetx.com/</a> to call if an illicit discharge is suspected. This phone number is also located near the top of their MS4 dedicated webpage <a href="https://www.jerseyvillagetx.com/page/pw.ms4">https://www.jerseyvillagetx.com/page/pw.ms4</a> .
3. Construction Site Storm Water Runoff Control	6.1 Training for Construction Site Stormwater Runoff Control	YES. An MS4 Training Session was conducted on July 12, 2022 through a webinar that provided educational training on how to identify construction site issues and enforcement procedures to ensure applicable construction sites maintain in compliance with the Construction General Permit TPDES TXR150000. The recorded presentation was also placed on a consultant's website <a href="https://quiddity.com/municipal-separate-storm-sewer-system-training/">https://quiddity.com/municipal-separate-storm-sewer-system-training/</a> .

<b>MCM</b>	<b>BMP</b>	<b>BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)</b>
4. Post-Construction Storm Water Management in New Development and Redevelopment	6.1 Training for Post-Construction Stormwater Controls	YES. An MS4 Training Session was conducted on July 12, 2022 through a webinar that provided educational training on the post-construction site stormwater runoff control program and the guidance document that is referenced. The recorded presentation was also placed on a consultant’s website <a href="https://quiddity.com/municipal-separate-storm-sewer-system-training/">https://quiddity.com/municipal-separate-storm-sewer-system-training/</a> .
5. Pollution Prevention & Good Housekeeping for Municipal Operations	3.1 Street Sweeping Measures	YES. Approximately, 1,018 miles of city roads were swept in Permit Year 4. The City’s street sweeper has an added feature to suction minor stormwater runoff ponding. Additionally, as a public notification feature, the City posted a map on its website showing the street sweeper schedule ( <a href="https://www.jerseyvillagetx.com/page/Streets%20and%20Sidewalks">https://www.jerseyvillagetx.com/page/Streets%20and%20Sidewalks</a> ).
5. Pollution Prevention & Good Housekeeping for Municipal Operations	5.1 Training for Pollution Prevention & Good Housekeeping	YES. An MS4 Training Session was conducted on July 12, 2022 through a webinar that 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 a consultant’s website <a href="https://quiddity.com/municipal-separate-storm-sewer-system-training/">https://quiddity.com/municipal-separate-storm-sewer-system-training/</a> .
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. Four (4) spill response kits were supplied for each of the MS4’s three (3) water treatment plants and one (1) wastewater treatment plant. Additionally, the MS4 has four (4) portable units in utility operators’ vehicles.

<b>MCM</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	8.1 Inspections & Assessment on Facilities	YES. The MS4 informally inspected three (3) water treatment plants and one (1) wastewater treatment plant. The inspection was conducted for run-off issues at these facilities. No deficiencies were observed, so corrective actions were not warranted.
5. Pollution Prevention & Good Housekeeping for Municipal Operations	8.2 Municipal Operation & Maintenance Activities	YES. The MS4 created a list of possible pollutants of concern and pollution prevention measures for facilities owned by the MS4. No additional pollution prevention measures were recommended to minimize the discharge of these pollutants for Permit Year 4.

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:

<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.	3.1	Utility Bill Inserts	6,690	<i>Jersey Village Star</i> Newsletters	NO. Approximately, 6,690 newsletters were distributed with customer's utility bills that provided useful stormwater quality educational articles. Though this BMP does not result in a direct reduction of pollutants, providing stormwater quality educational information raises the awareness of stormwater 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  3  3  1  1	Dedicated MS4 webpage  Posted Annual Reports  Posted Relevant <i>Jersey Village Star</i> Newsletters  Posted Recycling Tips & Guidelines  Dedicated FOG webpage	NO. The MS4's dedicated stormwater quality webpage <a href="https://www.jerseyvillagetx.com/page/pw.ms4">https://www.jerseyvillagetx.com/page/pw.ms4</a> has various educational resources available. The three (3) MS4's previously submitted Annual Reports are also located at this link. The three (3) relevant newsletters that provide useful stormwater quality educational information are also located online <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, too; <a href="https://www.jerseyvillagetx.com/page/pw.garbage">https://www.jerseyvillagetx.com/page/pw.garbage</a> . In Permit Year 4, the MS4 continued to utilize and promote their dedicated Fats, Oil, and Grease (FOG) webpage to relay City policies to commercial users <a href="https://www.jerseyvillagetx.com/page/F.O.G%20Program">https://www.jerseyvillagetx.com/page/F.O.G%20Program</a> . While this BMP does not directly reduce pollutants into the receiving stream, it 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.	4.1	Storm Drain Marking	250	Inlet Markers	YES. Approximately, 250 inlet markers were placed by volunteers in Permit Year 4.
1.	4.2	Recycling Program	52  5	Weekly Pick-up Events (includes Heavy & Bulk Waste)  Pet Waste Stations	YES. A weekly residential recycling program continued to be provided within the MS4 service area. 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 (City Council) Meetings	YES. Residents, businesses, and other community members are given opportunities to provide comments on the SWMP at the monthly City Council Meetings. 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 4.

<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.	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 4. 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 annual MS4 training webinar was conducted on July 12, 2022. This training presentation can demonstrate a direct reduction in pollutants.
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 includes a telephone number to report code enforcement issues such as illicit discharges or other pollution concerns. This BMP can directly impact the reduction of pollutants in stormwater.
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 <a href="https://www.jerseyvillagetx.com/">https://www.jerseyvillagetx.com/</a> and on their dedicated stormwater quality webpage <a href="https://www.jerseyvillagetx.com/page/pw.ms4">https://www.jerseyvillagetx.com/page/pw.ms4</a> . 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.	7.1	Evaluate the Ordinance for Illicit Discharge Detection & Elimination	1	Ordinance	YES. The City's Ordinance was amended in Permit Year 3. In Permit Year 4 changes were not recommended and the City continued its implementation. This BMP can have a direct reduction in pollutants.
3.	3.1	Evaluate the Ordinance for Construction Site Storm Water Runoff Control	1	Ordinance	YES. The City's Ordinance was amended in Permit Year 3. In Permit Year 4 changes were not recommended and the City continued its implementation. This BMP can have a direct reduction in pollutants.
3.	4.1	Construction Site Plan Review	5	Construction Drawings	NO. The City reviewed five (5) construction site plans or drawings for stormwater quality and/or erosion control compliance. This BMP does not directly reduce pollutants in the MS4.
3.	5.1	Construction Site Inspection & Enforcement	100+	Construction Site Inspections	YES. Stormwater quality and/or erosion control BMPs are actively monitored at each inspection called in as well as general drive-by inspections. This was performed for approximately more than 100 inspections. This BMP can 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.	6.1	Training for Construction Site Storm Water Runoff Control	1	Training Session	YES. An annual MS4 training webinar was conducted on July 12, 2022. This training presentation can demonstrate 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 amended in Permit Year 3. In Permit Year 4 changes were not recommended and the City continued its implementation. This BMP can have a direct reduction in pollutants.
4.	6.1	Training for Post-Construction Storm Water Controls	1	Training Session	YES. An annual MS4 training webinar was conducted on July 12, 2022. This training presentation can demonstrate a direct reduction in pollutants.
5.	3.1	Street Sweeping Measures	1,018	Miles of Streets Swept	YES. Approximately, 1,018 miles of city streets were cleaned during Permit Year 4. 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's inventory list of facilities and stormwater structural controls was evaluated and minor updates were needed in Permit Year 4. However, 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.	5.1	Training for Pollution Prevention & Good Housekeeping	1	Training Session	YES. An annual MS4 training webinar was conducted on July 12, 2022. This training presentation can demonstrate a direct reduction in pollutants.
5.	6.1	Disposal of Waste	8	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. Eight (8) spill response kits are available for the City's use. These BMPs have a direct reduction in pollutants.
5.	7.1	Contractor Oversight	5	Contracts with New Language	YES. In Permit Year 4, the MS4 included the new, required contract language in five (5) contracts for new contractors performing maintenance work on City property. This program does have the potential to directly reduce pollutants in the MS4.
5.	8.1	Inspections & Assessments on Facilities	4	Informal Inspections	YES. The MS4 conducted four (4) informal inspections at their major water and wastewater facilities for potential stormwater quality impairments. This BMP can potentially reduce pollutants directly into 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.	8.2	Municipal Operation & Maintenance Activities	1	List of Potential Pollutants of Concern	NO. The MS4 evaluated the list of potential pollutants for their inventory list and minor updates were needed, but structural controls were not recommended. This does not demonstrate a direct reduction of pollutants.
5.	8.3	Assessment of Storm & Sanitary Sewer Systems	Various	Storm & Sanitary Sewer Improvements	YES. The MS4 made various storm and sanitary sewer system improvements in Permit Year 4. Some examples include repairing a portion of a stormwater line that collapsed and replacement of a portion of storm sewer lines for a specific project completed this permit year. Preventive maintenance on the sanitary sewer system was performed as needed based on customer calls for service. These BMPs demonstrate a direct reduction in pollutants.

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

<b>MCM</b>	<b>Measurable Goal</b>	<b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>
1.	3.1 Utility Bill Inserts - distribute to 100% of the community biannually	EXCEEDED GOAL. The MS4 distributed stormwater quality articles three times to the community in Permit Year 4. This exceeded the measureable goal of biannual distribution.

<b>MCM</b>	<b>Measurable Goal</b>	<b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>
1.	3.2 Utilize MS4 Website – post the submitted Annual Report & electronic educational material	EXCEEDED GOAL. The MS4 uploaded their previous Annual Reports on its stormwater quality dedicated website <a href="https://www.jerseyvillagetx.com/page/pw.ms4">https://www.jerseyvillagetx.com/page/pw.ms4</a> and posted various public education materials, too. Recycling tips, HHW and E-waste information was also posted on the website. The MS4 continued to utilize a dedicated FOG webpage, too. The measureable 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, 250 inlet markers were placed in Permit Year 4. The program will continue to be promoted in the upcoming permit years.
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 for all residents within the MS4. Additionally, this program allows for residential heavy trash and bulk waste removal. The MS4 also maintains pet waste stations at City-owned properties. The measureable 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. No comments were received in Permit Year 4.
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 was reviewed in Permit Year 4 and no updates were needed.



<b>MCM</b>	<b>Measurable Goal</b>	<b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>
2.	4.1 Training for Illicit Discharge Detection & Elimination – hold one training session annually	MET GOAL. One MS4 Training Session was conducted on July 12, 2022 through a webinar which was recorded and posted to a consultant’s website <a href="https://quiddity.com/municipal-separate-storm-sewer-system-training/">https://quiddity.com/municipal-separate-storm-sewer-system-training/</a> .
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 code enforcement issues such as illicit discharges or other pollution concerns. This exceeded the goal of biannual distribution since they were sent monthly.
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 City’s main webpage <a href="https://www.jerseyvillagetx.com/">https://www.jerseyvillagetx.com/</a> and their dedicated MS4 website <a href="https://www.jerseyvillagetx.com/page/pw.ms4">https://www.jerseyvillagetx.com/page/pw.ms4</a> .
2.	6.1 Responding to Illicit Discharges & Spills - respond to 100% of reported potential illicit discharges	MET GOAL. Even though no (0) illicit discharges were reported in Permit Year 4, the MS4 has a program in place to respond, detect, and address 100% of reported illicit discharges.
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 4, the MS4 has a program in place to gather the appropriate information, prioritize the risk, and assess the situation. The MS4 reviewed the illicit discharge written procedures and these were updated in Permit Year 4.
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 4, the MS4 has a program in place to safely remove illicit discharges (as appropriate) and prevent the unauthorized discharge from affecting the MS4.

<b>MCM</b>	<b>Measurable Goal</b>	<b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>
2.	7.1 Evaluate the Ordinance for Illicit Discharge Detection & Elimination – review and continue implementing	MET GOAL. In a Permit Year 4, the MS4 reviewed their Ordinance and no revisions were recommended. It is continuously implemented throughout the permitting term.
3.	3.1 Evaluate the Ordinance for Construction Site Storm Water Runoff Control – review and continue implementing	MET GOAL. In a Permit Year 4, the MS4 reviewed their Ordinance and no revisions were recommended. It is continuously implemented throughout the permitting term.
3.	4.1 Construction Site Plan Review – review 100% of applicable site plans	MET GOAL. Approximately, five (5) construction site plans or 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. Approximately, 100+ construction site were monitored for stormwater quality and erosion control measures during Permit Year 4.
3.	6.1 Training for Construction Site Storm Water Runoff Control – hold one training session annually	MET GOAL. One MS4 Training Session was conducted on July 12, 2022 through a webinar which was recorded and posted to a consultant’s website <a href="https://quiddity.com/municipal-separate-storm-sewer-system-training/">https://quiddity.com/municipal-separate-storm-sewer-system-training/</a> .
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 (et al) continued to be utilized to aid in implementing construction site BMPs.

<b>MCM</b>	<b>Measurable Goal</b>	<b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>
4.	3.1 Evaluate the Ordinance to Address Post-Construction Stormwater Runoff Control – review and continue implementing	MET GOAL. In a Permit Year 4, the MS4 reviewed their Ordinance and no revisions were recommended. It is continuously implemented throughout the permitting term.
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 et al, 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 post construction BMPs	MET GOAL. The MS4 performed zero (0) post-construction inspections on permanent structural controls located within the MS4’s jurisdiction in Permit Year 4.
4.	6.1 Training for Post-Construction Storm Water Controls – hold one training session annually	MET GOAL. One MS4 Training Session was conducted on July 12, 2022 through a webinar which was recorded and posted to a consultant’s website <a href="https://quiddity.com/municipal-separate-storm-sewer-system-training/">https://quiddity.com/municipal-separate-storm-sewer-system-training/</a> .
5.	3.1 Street Sweeping Measures – provide mileage of street swept	MET GOAL. Approximately, 1,018 miles of city streets were swept during Permit Year 4.
5.	4.1 Inventory of Facilities & Storm Water Structural Controls - inventory 100% of facilities owned/operated by MS4	MET GOAL. The MS4 updated their inventory list of facilities and stormwater structural controls in Permit Year 4.

<b>MCM</b>	<b>Measurable Goal</b>	<b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>
5.	5.1 Training for Pollution Prevention & Good Housekeeping – hold one training session annually	MET GOAL. One MS4 Training Session was conducted on July 12, 2022 through a webinar which was recorded and posted to a consultant’s website <a href="https://quiddity.com/municipal-separate-storm-sewer-system-training/">https://quiddity.com/municipal-separate-storm-sewer-system-training/</a> .
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. Eight (8) spill response kits were supplied to operational staff in the event of a minor spill. 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. In Permit Year 4, the MS4 added language to five (5) new contracts for contractors performing maintenance activities on City property.
5.	8.1 Inspections & Assessments on Facilities – inspect 100% of permittee-owned facilities & controls	MET GOAL. The MS4 performed four (4) informal in-house inspections on City facilities in Permit Year 4.
5.	8.2 Municipal Operation & Maintenance Activities – review list of pollutants of concern annually	MET GOAL. The MS4 revised their inventory list from BMP 5.4.1 and minor updates were made in Permit Year 4.
5.	8.3 Assessment of Storm & Sanitary Sewer Systems – repair 100% of known sanitary sewer overflows	MET GOAL. The MS4 performed various routine maintenance, improvements, and repairs, as needed, on their sanitary and storm sewer systems.

## 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.?

The City of Jersey Village is not required to perform analytical stormwater quality sampling per TCEQ TPDES General Permit No. TXR040000. The City has provided qualitative information as proof of successfully achieving the measureable goals and benchmarks.

The MS4's street sweeper cleaned approximately 1,018 miles of city streets in Permit Year 4. The street sweeper also has an added feature of collecting minor runoff that has ponded along the street curb. Street sweeping measures will continue to be used in future permit years.

The MS4 repaired a portion of the storm sewer line along a residential street in response to a collapsed section during this permit year. Additionally, the City's "Wall Street Neighborhood Project" was completed in March 2022. The primary purpose of this project was to increase the drainage capacity in a pre-determined area. All storm sewer lines were replaced. A stormwater pump station was also installed in the event the area is inundated with runoff. Many studies have shown that stormwater quantity improvements positively impact stormwater quality. So, it is expected that these drainage upgrades will reduce the amount of pollutants in stormwater runoff.

## 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.

All BMPs included in the SWMP have measureable goals focused on reducing pollutants of concern that may contribute to the impairment of bacteria in waterbodies.

The MS4 continued practices to reduce bacteria from entering waterbodies by repairing sanitary sewer systems, educating the public about illicit discharges, illegal dumping and proper pet waste disposal, and enforcing their commercial FOG program.

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

The City will continue to make repairs and improvements to its sanitary sewer infrastructure to reduce sanitary sewer overflows and make updates as needed. The installation of SCADA (Supervisory Control and Data Acquisition) has assisted with real-time monitoring of the sanitary systems. This will reduce the likelihood of overflows.

As part of the City’s commercial Fats, Oils, and Grease (FOG) program, the City inspected 10 grease interceptors/traps at various commercial properties. The City inspectors also educate the property owners and/or onsite management team about the state requirements and BMPs for the grease traps/interceptors. Additionally, the City continued to manage a FOG-dedicated webpage aimed at commercial users <https://www.jerseyvillagetx.com/page/F.O.G%20Program> which refers them to the City’s Ordinance language and provides basic information on interceptors/grease traps maintenance. It is anticipated that the City will create a formal schedule for establishments to be inspected in upcoming years.

The City has five (5) pet waste stations at two (2) City-owned properties. These stations encourage proper pet waste disposal by supplying doggie waste bags.

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 4
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 4

<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 4
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 4
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 4
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 4
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 4
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 4

\*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:

<b>Benchmark Parameter</b>	<b>Selected BMP</b>	<b>Contribution to achieving Benchmark</b>
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 participates to report illicit discharges and other environmental concerns.
Bacteria	Illicit Discharge and Elimination Program	The MS4 responds to all reported illicit discharges including illegal dumping incidents and other environmental code concerns. These instances 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.
Bacteria	Municipal Operations and Good Housekeeping Practices	Utilization of the 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:

<b>Description of bacteria-focused BMP</b>	<b>Comments/Discussion</b>
Sanitary Sewer Systems	The MS4 added SCADA (Supervisory Control and Data Acquisition) to four (4) out of the six (6) City-owned sanitary lift stations for monitoring purposes. This assists in reducing the possibility of overflows and anticipating repairs prior to overflows occurring. The City anticipates performing a SewerVue inspection pilot project in the upcoming permit years.
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	<p>The City continued to implement their FOG program for commercial grease traps and interceptors. They created a FOG-dedicated webpage aimed at commercial users <a href="https://www.jerseyvillagetx.com/page/F.O.G%20Program">https://www.jerseyvillagetx.com/page/F.O.G%20Program</a>.</p> <p>Additionally, the MS4 inspected approximately 10 grease interceptors/tracks for optimum performance. The City Operators offer in-formal training to site representatives to explain state requirements as well as best management practices for these devices. It is anticipated that the City will create a formal inspected schedule for establishments in upcoming years.</p>
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 stormwater quality education material that discuss proper animal waste disposal.

Description of bacteria-focused BMP	Comments/Discussion
Residential Education	<p>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. These stations encourage proper pet waste disposal by supplying bags. The MS4's dedicated SWMP webpage discusses the proper disposal of pet waste to help protect waterbodies.</p> <p>The MS4 inspected approximately 97 swimming pool connections to verify they are properly connected to the sanitary sewer system and not the storm sewer system. Additionally, the MS4 has swimming pool and spa discharge guidelines posted on their website to educate constituents on the proper cleaning of pool filters and draining of pool water (<a href="https://www.jerseyvillagetx.com/upload/page/0272/Pool%20Discharge%202018%20COJV.pdf">https://www.jerseyvillagetx.com/upload/page/0272/Pool%20Discharge%202018%20COJV.pdf</a>).</p>

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

Benchmark Indicator	Description/Comments
Number of Educational Materials Distributed to the Community	A total of 6,690 stormwater education materials were distributed to residents within the MS4 service area. The information addressed illegal dumping, FOG proper disposals, and recycling information including HHW and E-waste.
Number of Sanitary Sewer Overflows	Zero (0) sanitary sewer overflows were reported in Permit Year 4. 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 revised in Permit Year 3. Updates were made to help clarify and enforce the City's stormwater management program. It is continuously implemented throughout the permitting term.

## E. Stormwater Activities

Describe activities planned for the next reporting year:

<b>MCM</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 biannually 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 educational information on the website.
1	1.4.1	Storm Drain Marking	Continue to promote opportunities to replace missing/illegible markers and provide quantity.
1	1.4.2	Volunteer Recycling Program	Continue the recycling program 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 and distribute to 100% of the MS4 service area biannually.
2	2.5.2	Public Reporting Using Electronic Education	Verify that the current contact information for the MS4 is correct on their website.
2	2.6.1	Responding to Illicit Discharges & Spills	Respond to 100% of reported illicit discharges.
2	2.6.2	Source Investigation of Illicit Discharges	Investigate 100% of reported illicit discharges.

<b>MCM</b>	<b>BMP</b>	<b>Stormwater Activity</b>	<b>Description/Comments</b>
2	2.6.3	Source Elimination of Illicit Discharges	Eliminate 100% of reported illicit discharges, if applicable.
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.
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.

<b>MCM</b>	<b>BMP</b>	<b>Stormwater Activity</b>	<b>Description/Comments</b>
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 stormwater 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 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	Continue to 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 stormwater structural controls.
5	5.8.2	Municipal Operation & Maintenance Activities	Identify and evaluate all operation and maintenance activities for their potential to discharge pollutants in stormwater.
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](mailto:Dante.Fekete@tceq.texas.gov)) and Liz Stone ([mstone@jonescarter.com](mailto:mstone@jonescarter.com)) entitled *RE: TXR040227 – City of Jersey Village*. This correspondence has been attached at the end of this annual report, without 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):

3 Construction Site Notices were received by the City

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): Danielle Cordova

Signature (please use **blue** ink):  \_\_\_\_\_

Title : Department Manager, Public Works

Date : December 8, 2022

Name of MS4 : **City of Jersey Village MS4**