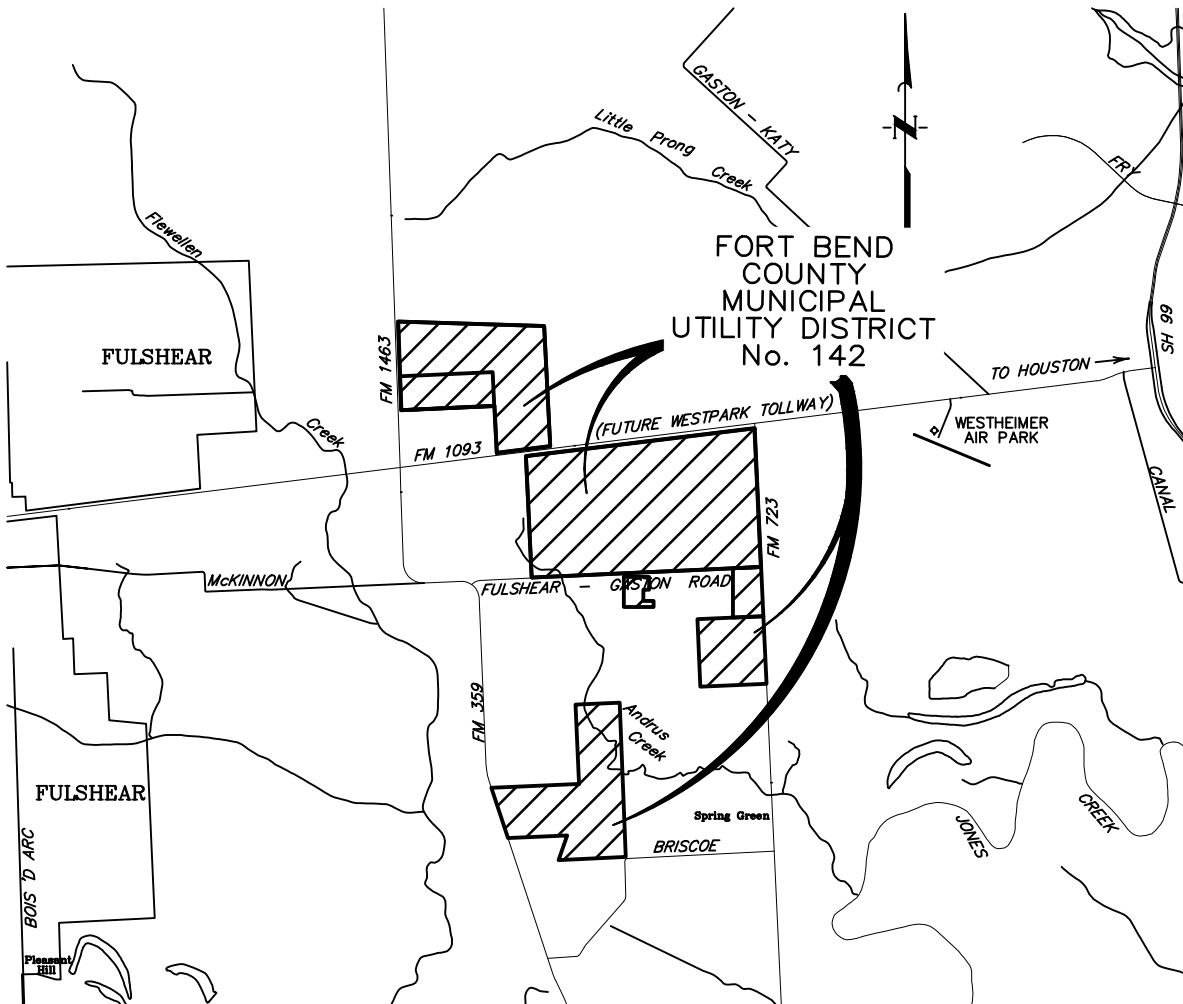


# MS4 PHASE II ANNUAL REPORT PERMIT YEAR 4: 2022

## FOR FORT BEND COUNTY MUNICIPAL UTILITY DISTRICT No. 142

FORT BEND COUNTY, TEXAS  
TPDES Authorization No. TXR040434



MARCH 2023  
Job No. 05277-0135-00



# QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100  
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: TXR040434

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

Annual Reporting Year Option Selected by MS4:

Calendar Year: X

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

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

Reporting period beginning date: (month/date/year): January 1, 2022

Reporting period end date: (month/date/year): December 31, 2022

MS4 Operator Level: Level 2

Name of MS4: Fort Bend County MUD 142 MS4

Contact Name: Liz Stone with Quiddity Engineering (MS4 Administrator)

Telephone Number: (281) 363-4039

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

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)

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

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

| <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.            | 3.1 Utility Bill Inserts | YES. The MS4 distributed 2,861 stormwater educational pamphlets. The information provided general stormwater education and good housekeeping practices. |

| <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.            | 3.2 Utilize MS4 Website  | YES. The MS4 posted on their website, <a href="https://www.fbmud142.com/waste-collection">https://www.fbmud142.com/waste-collection</a> , guidelines for recycling and bulk trash collection. The previously submitted Annual Reports are also posted to the website ( <a href="https://www.fbmud142.com/documents">https://www.fbmud142.com/documents</a> ) per the requirements in the General Permit.  |
| 1.            | 4.1 Storm Drain Marking  | YES. A total of 746 inlet markers were installed by volunteers in previous permit years. The MS4 will continue promoting the inlet marking program to install new inlet markers in the upcoming permit year.  |
| 2.            | 3.1 Maps of Storm Sewer Lines, Outfalls, Surface Water & Structural Controls | YES. The MS4 map which identifies the approximate location of all inlets, outfalls, surface waters, and structural controls was reviewed and no updates were needed in Permit Year 4.   |
| 2.            | 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 the MS4 Administrator's website ( <a href="https://www.quiddity.com/municipal-separate-storm-sewer-system-training/">https://www.quiddity.com/municipal-separate-storm-sewer-system-training/</a> ). A digital sign-in sheet was documented for the attendees. |
| 2.            | 5.1 Public Reporting Using Utility Bill Inserts                              | YES. The MS4 distributed 2,861 stormwater educational inserts to the public in Permit Year 4 which included a phone number for residents to report illicit discharges 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>  |
|---------------|--|--|
| 3.            | 6.1 Training for Construction Site Stormwater Runoff Control | YES. An MS4 Training Session was conducted on July 12, 2022 through a webinar. The presentation provided educational training on how to identify construction site issues and enforcement procedures to ensure all construction sites maintain in compliance with the Construction General Permit TPDES No. TXR150000. The recorded presentation was also placed on the MS4 Administrator's website ( <a href="https://www.quiddity.com/municipal-separate-storm-sewer-system-training/">https://www.quiddity.com/municipal-separate-storm-sewer-system-training/</a> ). A digital sign-in sheet was documented for the attendees. |
| 4.            | 6.1 Training for Post-Construction Stormwater Controls       | YES. An MS4 Training Session was conducted on July 12, 2022 through a webinar. This presentation provided educational training on the post-construction site stormwater runoff control program, the guidance documents that are referenced, and how to inspect and maintain the MS4's permanent structural controls. The recorded training was also posted on the MS4 Administrator's website ( <a href="https://www.quiddity.com/municipal-separate-storm-sewer-system-training/">https://www.quiddity.com/municipal-separate-storm-sewer-system-training/</a> ). A digital sign-in sheet was documented for the attendees.       |
| 5.            | 4.1 Training for Pollution Prevention & Good Housekeeping    | YES. An MS4 Training Session was conducted on July 12, 2022, through a webinar. The presentation provided educational training to those who are responsible for implementing pollution prevention measures and good housekeeping practices in municipal activities and municipally owned facilities. The recorded presentation was also placed on the MS4 Administrator's website ( <a href="https://www.quiddity.com/municipal-separate-storm-sewer-system-training/">https://www.quiddity.com/municipal-separate-storm-sewer-system-training/</a> ). A digital sign-in sheet was documented for the attendees.                   |

| <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.            | 5.1 Disposal of Waste                            | YES. The MS4 provided four (4) spill response kits for the MS4 to prevent illicit discharges from entering the storm sewer system. The MS4 Operator ensured that all waste collected at MS4 facilities was properly disposed in accordance with 30 TAC Chapter 330 and 335.   |
| 5.            | 7.1 Municipal Operation & Maintenance Activities | YES. The MS4's Emergency Spill Response Plan was evaluated and minor changes were needed in Permit Year 4. The MS4 continued to reference written inspection and follow-up procedures for illicit discharges, construction stabilization measures, and municipal facilities, when needed. Additionally, the MS4 reviewed the list of possible pollutants of concern and pollution prevention measures for the facilities listed in the inventory list in BMP 5.3.1; an additional structure and its pollution measures were included in Permit Year 4. The Operator for the MS4 inspected approximately 25 commercial grease traps/inceptors each month for proper maintenance. |

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    | 2,861 Stormwater Quality | Educational Inserts | NO. Though this BMP does not result in a direct reduction of pollutants, stormwater educational inserts provide public education to residents on good housekeeping principles and pollution prevention measures. |

| <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.         | 3.2        | Utilize MS4 Website  | 1<br><br>3      | Recycling & Trash Guidelines<br><br>Annual Reports | NO. The MS4 posted on their website, <a href="http://www.fbmud142.com">www.fbmud142.com</a> guidelines for recycling and bulk trash collection. The previously submitted Annual Reports were posted to the MS4's website per the requirements in the General Permit. While posting these items is helpful, they do not demonstrate a direct reduction in pollutants. |
| 1.         | 4.1        | Storm Drain Marking  | 746             | Inlet Markers                                      | YES. To date approximately, 746 inlet markers have been placed by volunteers. Since the markers are placed on inlets directly connected to the MS4, this BMP can have a direct impact in the reduction of pollutants.  |
| 1.         | 5.1        | Opportunity for Public Comment   | 12              | Board Meetings                                     | YES. All residents, businesses, and visitors within the MS4 area have the opportunity to comment on the Stormwater Management Plan at the MS4's monthly Board Meetings. Any comments received will be evaluated by the MS4 Administrator and considered for implementation. No comments were received in Permit Year 4.  |
| 2.         | 3.1        | Maps of 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 is helpful when tracking illicit discharges but does not directly reduce 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>   |
|------------|------------|--|-----------------|-------------------|--|
| 2.         | 4.1        | Training for Illicit Discharge Detection and Elimination | 1               | Training Program  | YES. The MS4 Training Session was conducted on July 12, 2022 through a webinar. The training presentation can have a direct reduction in pollutants by helping field personnel identify illicit discharges.  |
| 2.         | 5.1        | Public Reporting Using Utility Bill Insert               | 2,861           | Education Inserts | YES. The MS4 distributed 2,861 stormwater educational inserts to the public in Permit Year 4 that included a phone number for residents to report illicit discharges and other pollution concerns. This BMP can directly impact the reduction of pollutants in stormwater.   |
| 2.         | 7.1        | Evaluate Rate Order for Illicit Discharge                | 1               | Rate Order        | YES. The MS4 reviewed their Rate Order in Permit Year 2 and revisions were recommended. These comments were further evaluated in Permit Year 4. In the upcoming permit year, the attorney for the MS4 will decide if a revised Rate Order should be prepared for formal consideration and adoption. It can potentially have a direct reduction in pollutants by stating what is legally allowed and required including what the consequences are if conditions are not abided. |



| <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.         | 3.1        | Evaluate Rate Order for Construction Site Stormwater Runoff Control | 1               | Rate Order       | YES. The MS4 reviewed their Rate Order in Permit Year 2 and revisions were recommended. These comments were further evaluated in Permit Year 4. In the upcoming permit year, the attorney for the MS4 will decide if a revised Rate Order should be prepared for formal consideration and adoption.  |
| 3.         | 6.1        | Training for Construction Site Stormwater Runoff Control            | 1               | Training Program | YES. An MS4 Training Session was conducted on July 12, 2022 through a webinar. The training presentation provided educational training on how to identify construction site issues and enforcement procedures to ensure all construction sites maintain compliance with the Construction General Permit TPDES No. TXR150000. The training presentation can have a direct reduction in pollutants by helping field personnel identify any illicit discharge and other construction site concerns. |
| 3.         | 7.1        | Guidance Manual for Construction Site Stormwater Runoff Control     | 1               | Guidance Manual  | NO. The "Construction Site and Post-Construction Runoff Controls Stormwater Permit and Stormwater Quality Plan Guidelines" by Fort Bend County was utilized to aid in implementing construction site BMPs. While 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.  |

| <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.         | 3.1        | Evaluate Rate Order to Address Post-Construction Runoff   | 1               | Rate Order                   | YES. The MS4 reviewed their Rate Order in Permit Year 2 and revisions were recommended. These comments were further evaluated in Permit Year 4. In the upcoming permit year, the attorney for the MS4 will decide if a revised Rate Order should be prepared for formal consideration and adoption.   |
| 4.         | 4.1        | Guidance Manual for Post-Construction Stormwater Controls | 1               | Guidance Manual              | NO. The “Construction Site and Post-Construction Stormwater Controls Stormwater Permit and Stormwater Quality Plan Guidelines” by Fort Bend County was utilized to aid in implementing post-construction BMPs. While the guidance manual provides information on how to provide long-term maintenance of post-construction stormwater control measures it does not have a direct reduction in pollutants. |
| 4.         | 6.1        | Training for Post-Construction Stormwater Controls        | 1               | Training Program             | YES. The MS4 Training Session was conducted on July 12, 2022 through a webinar. The presentation can have a direct reduction in pollutants by helping field personnel identify any illicit discharge from permanent stormwater control features.  |
| 5.         | 3.1        | Inventory of Facilities & Stormwater Structural Controls  | 1               | List of Municipal Facilities | NO. The MS4 inventory list of facilities and stormwater structural controls was evaluated and an additional site was included in Permit Year 4. This list does not result in a direct reduction of 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.         | 4.1        | Training for Pollution Prevention & Good Housekeeping | 1               | Training Program    | YES. The MS4 Training Program was conducted on July 12, 2022 through a webinar. The presentation can have a direct reduction in pollutants by helping field personnel conduct municipal activities that do not negatively impact the MS4.   |
| 5.         | 5.1        | Disposal of Waste                                     | 4               | Spill Response Kits | YES. Four (4) spill response kits are readily and available for use by the MS4 to prevent illicit discharges from entering the storm sewer system. The MS4 ensured all waste materials removed were properly disposed of and do not contribute as pollutants. The kits, if used, will have a direct reduction of pollutants 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.         | 7.1        | Municipal Operation & Maintenance Activities | 1               | Emergency Spill Response Plan                                 | YES. The MS4's Emergency Spill Response Plan was evaluated and minor changes were needed in Permit Year 4. The MS4 continued to reference written inspection and follow-up procedures for illicit discharges, construction stabilization measures, and municipal facilities, when needed. Additionally, the MS4 reviewed the list of possible pollutants of concern and pollution prevention measures for the facilities listed in the inventory list in BMP 5.3.1; an additional structure and its pollution measures were included in Permit Year 4. The Operator for the MS4 inspected and maintained approximately 25 commercial grease traps/inceptors each month. These BMPs can have a direct reduction in the pollutants. |
|            |            |  | 1               | Written Inspection & Follow-Up Procedures                     |   |
|            |            |  | 1               | List of Pollutant of Concerns & Pollution Prevention Measures |   |
|            |            |  | 25              | Grease Trap Inspections per Month                             |   |

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(s)</b> | <b>Measurable Goal(s)</b>   | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>  |
|---------------|---|--|
| 1.            | 3.1 Utility Bill Inserts – Distribute to 100% of the MS4 Annually | MET GOAL. The MS4 distributed 2,861 stormwater educational pamphlets to residents of the community. This met the measurable goal of at least an annual distribution. |

| <b>MCM(s)</b> | <b>Measurable Goal(s)</b>  | <b>Explain progress toward goal or how goal was achieved. If goal was not accomplished, please explain.</b>  |
|---------------|--|--|
| 1.            | 3.2 Utilize MS4 Website – post approved SWMP (when available) & submitted Annual Report                    | EXCEEDED GOAL. The MS4 posted on their website, <a href="https://www.fbmud142.com/waste-collection">https://www.fbmud142.com/waste-collection</a> guidelines for recycling and bulk trash collection and the Annual Reports that were submitted to TCEQ ( <a href="https://www.fbmud142.com/documents">https://www.fbmud142.com/documents</a> ). The MS4 exceeded this measurable goal by posting educational material in addition to the Annual Report. |
| 1.            | 4.1 Storm Drain Marking – report 100% of installed markers annually  | MET GOAL. A total of 746 inlet markers were installed by volunteers in previous permit years. The MS4 will continue promoting the inlet marking program to install new inlet markers in the upcoming permit year.  |
| 1.            | 5.1 Opportunity for Public Comment – hold Monthly Board Meeting  | MET GOAL. All residents, businesses, and visitors within the MS4 area have the opportunity to comment on the Stormwater Management Plan at the MS4’s monthly Board Meetings.   |
| 2.            | 3.1 Maps of Storm Sewer Lines, Outfalls, Surface Waters, and Structural Controls – Annually Review MS4 Map | MET GOAL. 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 4.  |
| 2.            | 4.1 Training for Illicit Discharge Detection & Elimination – hold one training session annually            | MET GOAL. The MS4 held one (1) training session on July 12, 2022 through a webinar. A digital sign-in sheet was documented for the attendees.  |

| <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.            | 5.1 Public Reporting Using Utility Bill Inserts – Advertise contact information annually                  | MET GOAL. The MS4 distributed 2,861 stormwater educational inserts to the public in Permit Year 4 which included a phone number for residents to report illicit discharges and other pollution concerns.   |
| 2.            | 6.1 Responding to Illicit Discharges & Spills – respond to 100% of reported potential illicit discharges  | MET GOAL. Zero (0) incidents of illicit discharges or illegal dumping were reported in the MS4 during Permit Year 4. The MS4 has a program in place to respond to all reports and conduct the appropriate actions as concerns illicit discharges.  |
| 2.            | 6.2 Source Investigation of Illicit Discharges - respond to 100% of reported potential illicit discharges | MET GOAL. Zero (0) incidents of illicit discharges or illegal dumping were located and investigated within the MS4. The MS4 has procedures in place to investigate the affected area, prioritize the risk, and assess the situation.   |
| 2.            | 6.3 Source Elimination of Illicit Discharges – respond to 100% of reported potential illicit discharges   | MET GOAL. Zero (0) incidents of illicit discharges or illegal dumping were eliminated from the MS4 during Permit Year 4. The MS4 has a program in place to safely remove the illicit discharge, if applicable, and prevent the unauthorized discharge from affecting the MS4.                            |
| 2.            | 7.1 Evaluate Rate Order for Illicit Discharges – review annually  | MET GOAL. The MS4 reviewed their Rate Order in Permit Year 2 and revisions were recommended. These comments were further evaluated in Permit Year 4. In the upcoming permit year, the attorney for the MS4 will decide if a revised Rate Order should be prepared for formal consideration and adoption. |

| <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>   |
|---------------|---|---|
| 3.            | 3.1 Evaluate the Rate Order for Construction Site Stormwater Runoff Control – review annually     | MET GOAL. The MS4 reviewed their Rate Order in Permit Year 2 and revisions were recommended. These comments were further evaluated in Permit Year 4. In the upcoming permit year, the attorney for the MS4 will decide if a revised Rate Order should be prepared for formal consideration and adoption.  |
| 3.            | 4.1 Construction Site Plan Review – review 100% of applicable site plan reviews                   | MET GOAL. Zero (0) construction drawings were received and reviewed on all applicable projects one acre or larger to prevent water quality impacts within the MS4. The MS4 administrator conducts construction site plan reviews in accordance with the TPDES Construction General Permit No. TXR150000.  |
| 3.            | 5.1 Construction Site Inspection & Enforcement – inspect 100% of applicable construction sites    | MET GOAL. Zero (0) commercial construction inspections were performed on all applicable projects which disturb 1 or more acres or are part of a common plan of development. Construction inspections are conducted following the preliminary stage on an as needed basis, and the MS4 will conduct construction site inspections in the upcoming permit year if applicable. |
| 3.            | 6.1 Training for Construction Site Stormwater Runoff Control – hold one training session annually | MET GOAL. The MS4 held one (1) training session on July 12, 2022 through a webinar. A digital sign-in sheet was documented for the attendees.   |
| 3.            | 7.1 Guidance Manual for Construction Site Stormwater Runoff Control – continue utilizing          | MET GOAL. The MS4 continued to utilize “Construction Site and Post-Construction Runoff Controls Stormwater Permit and Stormwater Quality Plan Guidelines” by Fort Bend County to aid in implementing construction site BMPs.  |

| <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.            | 3.1 Evaluate the Rate Order to Address Post-Construction Runoff – review annually                               | MET GOAL. The MS4 reviewed their Rate Order in Permit Year 2 and revisions were recommended. These comments were further evaluated in Permit Year 4. In the upcoming permit year, the attorney for the MS4 will decide if a revised Rate Order should be prepared for formal consideration and adoption.  |
| 4.            | 4.1 Guidance Manual for Post-Construction Stormwater Controls – continue implementing                           | MET GOAL. The MS4 continued to utilize “Construction Site and Post-Construction Runoff Controls Stormwater Permit and Stormwater Quality Plan Guidelines” by Fort Bend County to aid in implementing post-construction BMPs.  |
| 4.            | 5.1 Inspection Program for Post-Construction Stormwater Controls – inspect 100% of completed construction sites | MET GOAL. Zero (0) post-construction site inspections were performed within the MS4 during Permit Year 4. The MS4 will conduct post-construction site inspections in the upcoming permit year on applicable sites. Inspections ensure permanent structural controls were properly constructed, reducing the potential impact of illicit discharges and that the long-term functionality of the BMP is maintained. |
| 4.            | 6.1 Training for Post-Construction Stormwater Controls – hold one training session annually                     | MET GOAL. The MS4 held one (1) training session on July 12, 2022 through a webinar. A digital sign-in sheet was documented for the attendees.   |
| 5.            | 3.1 Inventory of Facilities & Stormwater Structural Controls – maintain and update                              | MET GOAL. The MS4’s inventory of facilities and stormwater structural controls was evaluated and an additional site was included in Permit Year 4.  |



| <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.            | 4.1 Training for Pollution Prevention & Good Housekeeping – hold one training session annually | MET GOAL. The MS4 held one (1) training session on July 12, 2022 through a webinar. A digital sign-in sheet was documented for the attendees.   |
| 5.            | 5.1 Disposal of Waste – document number of response spill kit(s)                               | MET GOAL. The MS4 provided four (4) spill response kits for the MS4 to prevent illicit discharges from entering the storm sewer system. The MS4 Operator ensured that all waste collected at MS4 facilities was properly disposed in accordance with 30 TAC Chapter 330 and 335.  |
| 5.            | 6.1 Contractor Oversight – Research Phase  | MET GOAL. The MS4 began to research appropriate text to use in contractors’ legal documents and agreements with the MS4 that states their work performed on MS4-owned and/or operated facilities will not have a negative effect on the storm sewer system and will not release runoff that may be considered an illicit discharge.   |
| 5.            | 7.1 Municipal Operation & Maintenance Activities – summarize O&M activities                    | MET GOAL. The MS4's Emergency Spill Response Plan was evaluated and minor changes were needed in Permit Year 4. The MS4 continued to reference written inspection and follow-up procedures for illicit discharges, construction stabilization measures, and municipal facilities, when needed. Additionally, the MS4 reviewed the list of possible pollutants of concern and pollution prevention measures for the facilities listed in the inventory list in BMP 5.3.1; an additional structure and its pollution measures were included in Permit Year 4. The Operator for the MS4 inspected and maintained approximately 25 commercial grease traps/inceptors every month. |

## 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 listed in the SWMP.

The MS4 distributed approximately 2,861 educational inserts to their water users in Permit Year 4. The inserts provided general information regarding stormwater and promoted good housekeeping practices. The stormwater inserts included the phone number for the District Operator for the MS4 to report illicit discharges and other environmental concerns. It also promoted the inlet marker program by seeking volunteers to install inlet markers. Approximately, 746 inlet markers have been installed by volunteers thus far. No groups were interested in placing inlet markers within the MS4 for Permit Year 4. The MS4 will continue to promote the inlet marking program to install new and/or missing inlet markers in the upcoming 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.

Fort Bend County MUD 142 MS4 discharges directly to unclassified segment Flewellen Creek-1245E –which ultimately discharges into classified segment Upper Oyster Creek -1245. This classified segment was already listed in an EPA-approved 303(d) list *and Texas Integrated Report of Surface Water Quality for CWA Section 305(b) and 303(d)*. This is not a newly-identified impaired waterbody. This waterbody was listed in the MS4’s Stormwater Management Program. No newly listed impaired waterbodies have been added that are within the permitted MS4 area. The parameters of impairment are bacteria and depressed dissolved oxygen.

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 MS4’s SWMP have measurable goals focused on reducing pollutants of concern that may contribute to the impairment in waterbodies. All focused BMPs are scheduled to be fully implemented by the end of Permit Year 5.

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

All BMPs outlined in the MS4's SWMP targets residents, businesses, commercial and industrial facilities that reside within the MS4's jurisdiction. The BMPs focus on detecting, addressing, and eliminating impairments caused by bacteria and other illicit discharges.

The MS4 has determined no pollutants of concerns are being discharged from the MS4 based on observational data during Permit Year 4. As a result of these observations, all discharges from the MS4s were unlikely to contain concerning levels of bacteria nor depressed dissolved oxygen. The MS4 will continue to implement the BMPs outlined in the SWMP. If concerning pollutants are observed in future permit years, the MS4 will refer to the TCEQ-approved Implementation Plan (I-Plan) and determine if additional BMPs are needed to prevent illicit discharges from impacting the environment. All BMPs are scheduled to be evaluated in the next permitting year 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                   | 1.26 x 10 <sup>8</sup> counts of E. coli bacteria in stormwater runoff per day | Public outreach efforts reduce the probability of bacteria resulting from illicit discharges by 2%.                                      | Permit Year 4<br>2022    |
| Bacteria                   | 1.26 x 10 <sup>8</sup> counts of E. coli bacteria in stormwater runoff per day | Restricting illicit discharges reduce the probability of bacteria resulting from illicit discharges by 20%.                              | Permit Year<br>42022     |
| Bacteria                   | 1.26 x 10 <sup>8</sup> counts of E. coli bacteria in stormwater runoff per day | Restricting illicit discharges from construction runoff reduces the probability of bacteria from entering the storm sewer inlets by 20%. | Permit Year 4<br>2022    |

| <b>Benchmark Parameter</b> | <b>Benchmark Value</b>   | <b>Description of additional sampling or other assessment activities*</b>  | <b>Year(s) conducted</b> |
|----------------------------|--|--|--------------------------|
| Bacteria                   | 1.26 x 10 <sup>8</sup> counts of E. coli bacteria in stormwater runoff per day | Reviewing construction drawings for BMPs which address erosion and sediment controls reduces the probability of bacteria from entering the storm sewer system by 20%.          | Permit Year 4<br>2022    |
| Bacteria                   | 1.26 x 10 <sup>8</sup> counts of E. coli bacteria in stormwater runoff per day | Evaluating construction sites for illicit discharges reduces the probability of bacteria from entering the storm sewer system by 20%.  | Permit Year 4<br>2022    |
| Bacteria                   | 1.26 x 10 <sup>8</sup> counts of E. coli bacteria in stormwater runoff per day | Utilizing the guidance manual assists in the implementation of erosion and sediment controls, soil stabilization, and BMPs by 2%.  | Permit Year 4<br>2022    |
| Bacteria                   | 1.26 x 10 <sup>8</sup> counts of E. coli bacteria in stormwater runoff per day | Restricting illicit discharge from post-construction runoff reduces the probability of bacteria from entering the storm sewer inlets by 20%.                                   | Permit Year 4<br>2022    |
| Bacteria                   | 1.26 x 10 <sup>8</sup> counts of E. coli bacteria in stormwater runoff per day | Evaluating completed construction sites to ensure structural controls were properly installed reduces the probability of bacteria from entering the storm sewer system by 20%. | Permit Year 4<br>2022    |

\*Descriptions composed from *I-Plan for Two TMDLs for Dissolved Oxygen and One TMDL for Bacteria in Upper Oyster Creek*. This Report did not provide an estimated percent reduction for depressed dissolved oxygen.

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 raise awareness of stormwater quality concerns and encourage public reporting if illicit discharges. The MS4's inlet marking program provides involvement in the SWMP and encourages participants to report illicit discharges and other environmental concerns.   |
| Bacteria                   | Illicit Discharge and Elimination Program                                    | The MS4 responds to all reported illicit discharges and environmental concerns. These incidents are fully documented and remediated to the maximum extent practicable.   |
| Bacteria                   | Construction Site Plan Review and Site Inspections                           | Restricting illicit discharges from construction activities reduces the probability of pollutants entering the storm sewer system. Performing reviews on construction drawings and inspections on construction projects ensures that appropriate BMPs are being implemented to minimize the discharge of possible impairments. |
| Bacteria                   | Municipal Operations and Good Housekeeping Practices                         | Routine maintenance and inspection procedures of MS4 facilities assist in minimizing illicit discharges. If minor spills occur, the MS4 has immediate use of four (4) 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 monitors and maintains their sanitary sewer system and, if needed, improvements are made to reduce overflows and address any inadequacies. These inspections include the lift stations and sanitary sewer lines. These efforts help to reduce the number of sanitary sewer overflows.  |
| On-site Sewage Facilities (for entities with appropriate jurisdiction) | No on-site sewage facilities are knowingly located within the MS4. The MS4 does not have jurisdiction over septic systems within their service area nor do they allow on-site sewage facility within their MS4.  |
| Illicit Discharge and Dumping  | In accordance with the MS4's Rate Order, the District Operator for the MS4 will continue to inspect commercial users with an approved grease trap and/or grit inceptors. In Permit Year 4 approximately 25 inspections per month were conducted on commercial users within the MS4.  |
| Animal Sources   | Zoos, horse stables, and other animal housing facilities are not knowingly located with Fort Bend County MUD No. 142. In the future, the MS4 will be mindful 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 animal waste. In this permit year's stormwater quality insert, the MS4 encourages its residents to pick up their pet waste and dispose of it properly. The MS4 will continue to relay this message in their annual public education insert. |
| Residential Education  | The MS4 provided basic guidelines regarding proper pool and spa drainage and proper pet waste disposal in the annual stormwater quality public education insert. The MS4 distributed and posted on its website information for residents to follow on the proper disposal of Fats, Oils and Grease (FOG).  |

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 2,861 stormwater educational material were mailed to residents within the MS4 service area. The information addressed stormwater quality good housekeeping practices. This insert provided a phone number for residents to report illicit discharges and other environmental concerns. |

## E. Stormwater Activities

Describe activities planned for the next reporting year:

| MCM(s) | BMP   | Stormwater Activity   | Description/Comments   |
|--------|-------|---|--|
| 1      | 1.3.1 | Utility Bill Inserts  | Update and revise the education material, as needed, and distribute education material to 100% of 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 stormwater quality educational information.   |
| 1      | 1.4.1 | Storm Drain Marking   | Continue to offer volunteers the opportunity to place inlet markers and record the quantity.   |
| 1      | 1.5.1 | Opportunity for Public Comment  | Continue to hold monthly public meetings where the public can ask questions and make comments about the SWMP. If available, the public notice will be published in accordance with the General Permit. |
| 2      | 2.3.1 | Maps of Storm Sewer Lines, Outfalls, Surface Waters & Structural Controls | Update and revise map if new data related to the storm sewer system is identified.   |

| <b>MCM(s)</b> | <b>BMP</b> | <b>Stormwater Activity</b>  | <b>Description/Comments</b>  |
|---------------|------------|---|--|
| 2             | 2.4.1      | Training for Illicit Discharge Detection & Elimination                  | Hold at least one (1) training session annually and offer the training program to appropriate staff.   |
| 2             | 2.5.1      | Public Reporting Using Utility Bill Inserts                             | Advertise the current contact information for the MS4 and distribute to 100% of the MS4 annually.  |
| 2             | 2.6.1      | Responding to Illicit Discharges & Spills                               | Respond to 100% of reported illicit discharges annually.   |
| 2             | 2.6.2      | Source Investigation of Illicit Discharges                              | Investigate 100% of reported illicit discharges.   |
| 2             | 2.6.3      | Source Elimination of Illicit Discharges                                | Eliminate 100% of reported illicit discharges, if applicable.  |
| 2             | 2.7.1      | Evaluate Rate Order for Illicit Discharges                              | Evaluate the comments received for the Rate Order in Permit Year 2 and if agreed by the MS4 a draft Rate Order will be prepared for formal consideration and adoption. |
| 3             | 3.3.1      | Evaluate the Rate Order for Construction Site Stormwater Runoff Control | Evaluate the comments received for the Rate Order in Permit Year 2 and if agreed by the MS4 a draft Rate Order will be prepared for formal consideration and adoption. |
| 3             | 3.4.1      | Construction Site Plan Review   | Continue to conduct plan reviews on 100% of applicable submittals.   |
| 3             | 3.5.1      | Construction Site Inspection & Enforcement                              | Continue to conduct construction site inspections on 100% of applicable construction sites.  |
| 3             | 3.6.1      | Training for Construction Site Stormwater Runoff Control                | Hold at least one (1) training session annually and offer the training program to appropriate staff.   |



| <b>MCM(s)</b> | <b>BMP</b> | <b>Stormwater Activity</b>                                      | <b>Description/Comments</b>  |
|---------------|------------|---|--|
| 3             | 3.7.1      | Guidance Manual for Construction Site Stormwater Runoff Control | Continue utilizing the guidance manual.  |
| 4             | 4.3.1      | Evaluate Rate Order to Address Post-Construction Runoff         | Evaluate the comments received for the Rate Order in Permit Year 2 and if agreed by the MS4 a draft Rate Order will be prepared for formal consideration and adoption. |
| 4             | 4.4.1      | Guidance Manual for Post-Construction Stormwater Controls       | Continue utilizing the guidance manual.  |
| 4             | 4.5.1      | Inspection Program for Post-Construction Stormwater Controls    | Continue to conduct inspections on 100% of applicable, completed projects, as needed.  |
| 4             | 4.6.1      | Training for Post-Construction Stormwater Controls              | Hold at least one (1) training session annually and offer the training program to appropriate staff.   |
| 5             | 5.3.1      | Inventory of Facilities & Stormwater Structural Controls        | Continue to maintain an MS4 inventory list and update, as needed.  |
| 5             | 5.4.1      | Training for Pollution Prevention & Good Housekeeping           | Hold at least one (1) training session annually and offer the training program to appropriate staff.   |
| 5             | 5.5.1      | Disposal of Waste   | Continue to ensure spill response kits are still available for the MS4. Ensure all waste is properly disposed and does not contribute as illicit material.             |

| <b>MCM(s)</b> | <b>BMP</b> | <b>Stormwater Activity</b>                   | <b>Description/Comments</b>  |
|---------------|------------|--|--|
| 5             | 5.6.1      | Contractor Oversight                         | Finalize language to insert in legal documents for new MS4 contractors to use the appropriate BMPs, control measures, and/or standard operating procedures to minimize potential runoff pollution. |
| 5             | 5.7.1      | 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).

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:

|   |     |
|---|-----|
| 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): JOHN R. MORGAN

Title: V.P.

Signature: John R. Morgan

Date: 3/9/23

Name of MS4: **Fort Bend County MUD 142 MS4**