



STORMWATER MANAGEMENT PROGRAM

AS REQUIRED BY:
TPDES GENERAL PERMIT NO. TXR040000

PREPARED BY:



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Introduction

This stormwater management program for the City of Nederland has been prepared in compliance with the TPDES General Permit No. TXR040000 with the effective date of January 24, 2019. The City developed and implemented their original SWMP during the first TPDES TXR040000 permit term and is continuing their program at full implementation. All previously established interim milestones have been achieved, however the City has included implementation dates for each BMP included in the SWMP based on the frequency of the action as required by Part III Section A.2(a) of TXR040000. The SWMP is designed to cover the duration of the permit term and will be updated as required to ensure compliance with the requirements of TPDES General Permit No. TXR040000 and Section 402(p)(3)(B) of the Clean Water Act. The City has reviewed the permit requirements established for each minimum control measure and developed clear, specific, and measurable BMPs and corresponding goals.

The City of Nederland is a member of the Jefferson County Stormwater Quality Coalition. Each entity in the Coalition has elected to develop a separate stormwater management program and will submit individual annual reports each year. The City's TXR040000 permit information is shown below.

Entity	MS4 Level	Permit Number
City of Nederland	Level 2	TXR040133

The City of Nederland is entirely responsible for meeting the applicable SWMP requirements and has agreed to limit the implementation of their BMPs to the boundaries of their MS4 within the urbanized area. The Public Works Director, Robert Woods P.E., CFM, is responsible for the overall implementation of the SWMP.

The City of Nederland is located in Jefferson County and has a total population of approximately 17,547 according to the 2010 census. The receiving water body for the City's storm sewer system is Alligator Bayou. A general location map of Jefferson County is shown below in **Figure 1.1** and a map of the City's urbanized area is included on the following page as **Figure 1.2**.

General Location Map – Jefferson County, Texas

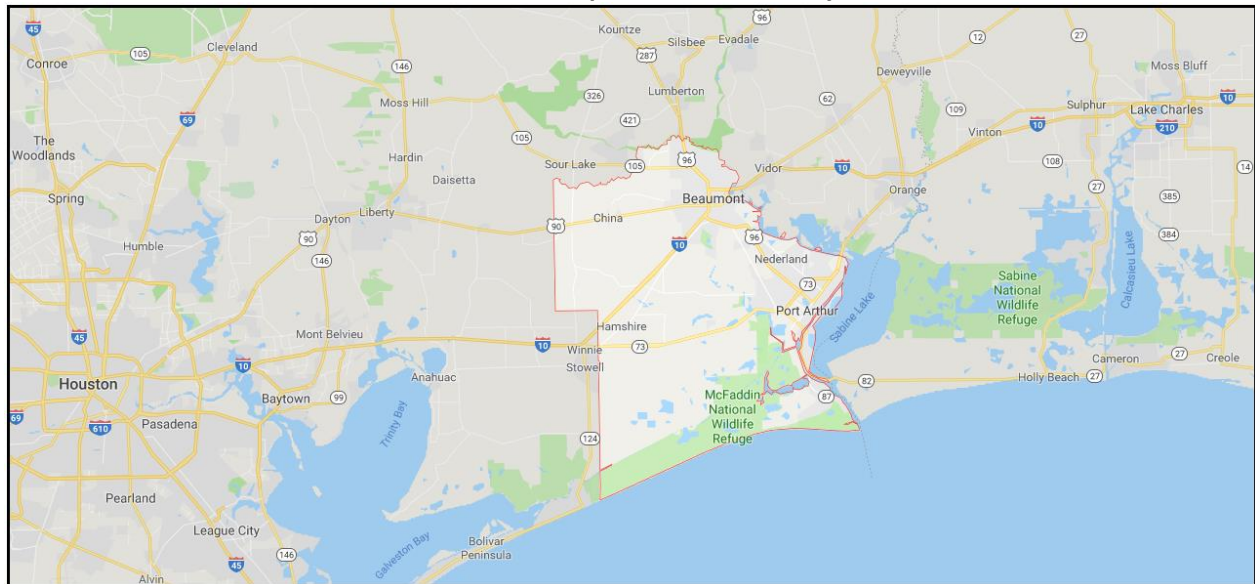


Figure 1.1

2010 Census Urbanized Area Map: Jefferson County, Texas

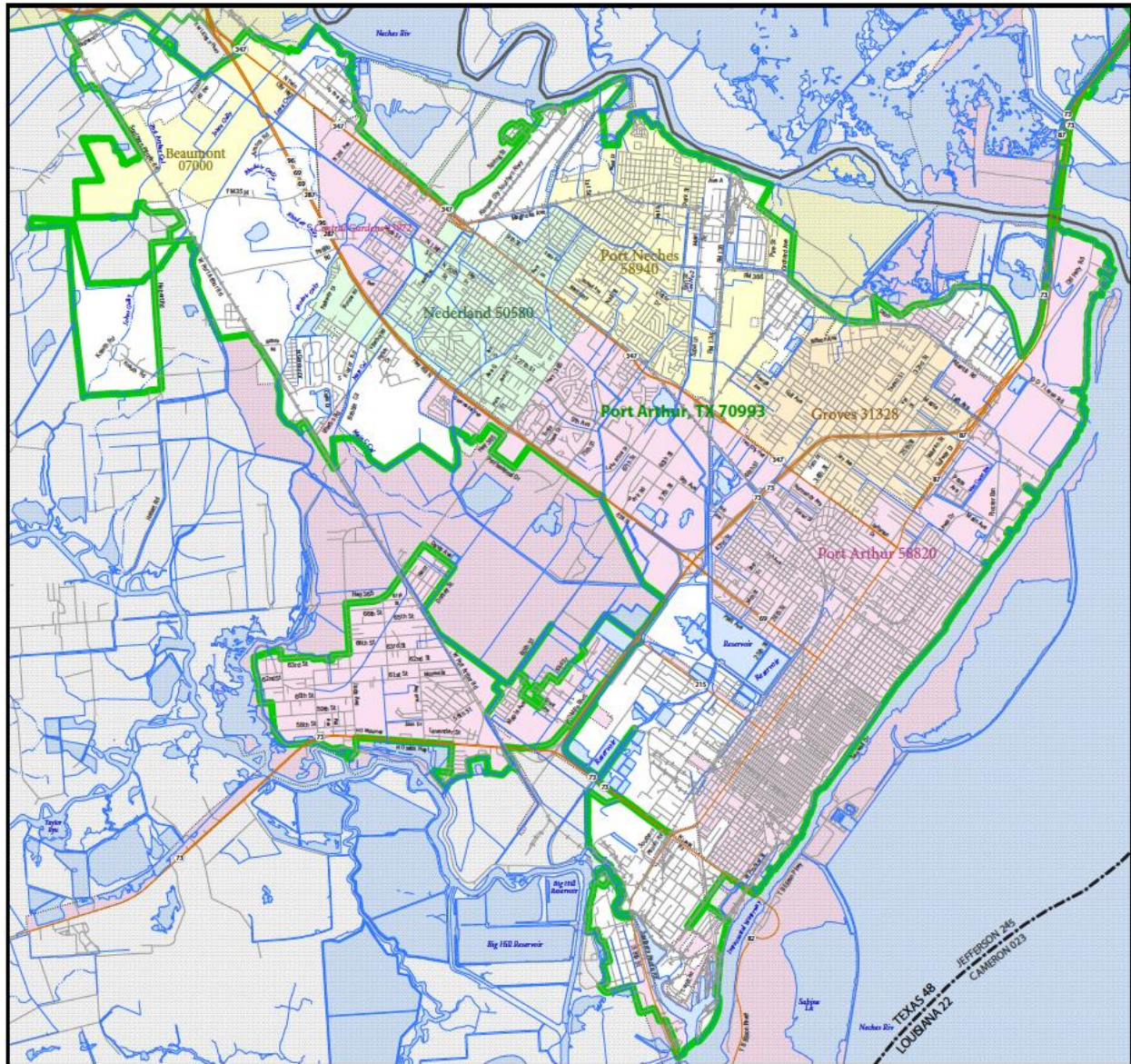


Figure 1.2

Section 1: Public Education, Outreach, and Involvement

1.A. Permit Requirements

All permittees shall develop, implement, and maintain a comprehensive stormwater education and outreach program to educate public employees, businesses, and the general public of hazards associated with the illegal discharges and improper disposal of waste and about the impact that stormwater discharges can have on local waterways, as well as the steps that the public can take to reduce pollutants in stormwater.

All permittees shall involve the public, and, at minimum, comply with any state and local public notice requirements in the planning and implementation activities related to developing and implementing the SWMP, except that correctional facilities are not required to implement this portion of the MCM.

1.B. Program Overview

The permittee has assessed the program elements that were described in the previous permit term, modified them as necessary, and developed new elements to continue reducing the discharge of pollutants from the MS4 to the MEP.

The City has identified high-priority issues that can be addressed using the BMPs developed for Public Education, Outreach, and Involvement and developed the following goals: increase construction site operators' awareness of stormwater pollution; increase local residents' awareness of stormwater pollution; and encourage public involvement in the implementation of the stormwater management program.

The City has reviewed which sources are likely to have significant impacts on stormwater quality and identified the following groups as the target audiences for their public education program:

- residents
- public service employees
- businesses
- commercial and industrial facilities
- construction site personnel

The target audiences were selected based on data collected throughout the implementation of the City's SWMP and by reviewing EPA NPDES guidance documents regarding stormwater pollution sources.

The City will inform the public about the steps they can take to reduce stormwater pollution through the development of flyers and/or brochures, a stormwater quality website containing educational materials (www.TXMS4.com/Jefferson), guidance documents, and by hosting public meetings. Additionally, the permittee has created opportunities for citizens to participate in the implementation of control measures by: providing citizens with a Stormwater Hotline to report illicit discharges, illegal dumping, spills, and construction site discharge issues; hosting public meetings to allow input from the citizens on the implementation of the program; and by allowing local community organizations to assist in the distribution of public education materials. Through the use of multiple media outlets, the City expects to reach a significant percentage of the local community during the permit term. The activities and materials utilized to fulfill the Public Education, Outreach, and Involvement MCM will be documented. The documentation of these records will be summarized in an annual report and will be specific enough to demonstrate compliance with the existing permit requirements. Included in each BMP is a description of what records will be maintained and reported in the annual reports.

The successfulness of the public education program will be evaluated based on the accomplishment of all associated measurable goals. The measurable goals were selected by analyzing the data collected during the previous permit and establishing program expectations for each associated BMP.

1.C. Best Management Practices and Measurable Goals

Best Management Practices

Public Education and Outreach

- A. Flyers and Brochures:** Development of flyers and brochures for the purpose of educating the public on stormwater impacts and ways they can minimize stormwater pollution.
- B. Education of Children:** Development of educational materials for school age children in order to foster a respect for water quality at an early age.
- C. Education of Construction Site Personnel:** Development of guidance materials for construction site personnel on the proper installation and maintenance of erosion and sediment controls.
- D. Public Service Announcements:** Utilize PSAs on the City's stormwater website to educate the public on the impacts of stormwater pollution and steps they can take to improve water quality.
- E. SWMP Posting:** Post a copy of the SWMP on the City's stormwater quality website for the public to review.
- F. Annual Report Posting:** Post a copy of each year's annual report on the City's stormwater quality website for the public to review.
- G. SWMP Review:** Conduct an annual review of the City's stormwater management program and perform any necessary updates.

Public Involvement

- H. Public Meetings:** Conduct public meetings to provide updates on the stormwater management program, receive comments from citizens to allow public input on the implementation of the program, and provide information on opportunities for citizens to participate in the implementation of control measures.
- I. Stormwater Hotline:** Advertise appropriate phone numbers for citizens to participate in the implementation of control measures by reporting illicit discharges, illegal dumping, spills, and construction site discharge issues.
- J. SWMP Public Notice:** The City will adhere to all state and local public notice requirements during the TXR040000 permit renewal process.
- K. Stormwater Quality Website:** Develop and maintain a stormwater quality website to ensure that the public can easily find information about the SWMP and inform citizens about steps they can take to improve water quality.
- L. Educational Material Distribution:** Provide local community organizations with the opportunity to assist in the distribution of stormwater quality educational materials by providing them with materials for distribution at their meetings, when requested. All educational materials will be included on the stormwater quality website for viewing by the public.

Measurable Goals & Record Keeping

BMP	Records to be Maintained	Measurable Goals
Flyers and Brochures	Number of materials developed and/or posted on the stormwater website	Develop or post on the stormwater website at least 2 types of flyers/brochures per year
Education of Children	Number of materials developed	Develop at least 1 type of educational material annually for children
Education of Construction Site Personnel	Number of educational materials or guidance documents posted on the stormwater website	Make available annually on stormwater website at least 1 guidance document or brochure on construction site runoff issues
Public Service Announcements	Number of different PSAs being posted on the City's stormwater website	Maintain at least 1 PSA on the City's stormwater website annually to educate the public about water quality
SWMP Posting	Stormwater quality website with SWMP posted	Post a copy of the SWMP on the City's stormwater website no later than 30 days after the TCEQ approval date
Annual Report Posting	Stormwater quality website with annual reports posted	Annually post a copy of the most recent annual report on the stormwater website no later than 30 days after the due date
SWMP Review	SWMP review forms including a description of any necessary updates	Conduct annual review of SWMP and perform any necessary updates
Public Meetings	Number of public meetings held and associated sign-in sheets	Conduct at least 1 public meeting per permit term
Stormwater Hotline	Number of phone calls received regarding stormwater quality issues	Develop or post on the stormwater website at least 2 types of materials/media per year that informs the public about reporting stormwater quality concerns
SWMP Public Notice	Affidavits and newspaper tear sheets associated with the public notice process	Comply with TCEQ public notice requirements for the TXR040000 permit renewal process
Stormwater Quality Website	Number of website views	Maintain and make available annually a stormwater quality website
Educational Material Distribution	Number of requests made by local community organizations and amount of materials provided	Maintain collection of education materials on the stormwater quality website annually for local community organizations to view

1.D. BMP Implementation Schedule and MS4 Responsibilities

BMP Implementation Schedule

BMP	Frequency of Action	Implementation Status
Flyers and Brochures	Annually	Full Implementation Continued
Education of Children	Annually	Full Implementation Continued
Education of Construction Site Personnel	Annually	Full Implementation Continued
Public Service Announcements	Annually	Full Implementation Continued
SWMP Posting	Once per permit term	October 2020
Annual Report Posting	Annually	Full Implementation Continued
SWMP Review	Annually	October 2020
Public Meetings	Once per permit term	October 2022
Stormwater Hotline	Annually	Full Implementation Continued
SWMP Public Notice	Once per permit term	October 2020
Stormwater Quality Website	Annually	Full Implementation Continued
Educational Material Distribution	Annually	October 2020

*BMPs that are implemented on an annual basis will be conducted prior to October 1st of each year.

MS4 Responsibilities

The City of Nederland is entirely responsible for implementing the BMPs and meeting the measurable goals established in this section of the SWMP. The City has agreed to limit the implementation of their BMPs to the boundaries of their MS4 within the urbanized area.

Section 2: Illicit Discharge Detection and Elimination

2.A. Permit Requirements

All permittees shall develop, implement, and enforce a program to detect, investigate, and eliminate illicit discharges into the small MS4. The program must include a plan to detect and address non-stormwater discharges, including illegal dumping to the MS4 system.

2.B. Program Overview

The permittee has assessed the program elements that were described in the previous permit term, modified them as necessary, and developed new elements to continue reducing the discharge of pollutants from the MS4 to the MEP.

The Illicit Discharge Detection and Elimination minimum control measure consists of BMPs that focus on the detection and elimination of illicit discharges into the MS4. The detection of non-stormwater discharges and illegal dumping will be accomplished through the inspection of outfalls at a frequency of 20 percent per year such that the City's entire MS4 area will be inspected by the end of the five-year permit term. Any discharges identified during dry weather screening will be analyzed using colorimetric field test kits to determine the nature of the discharge and the flow will be traced upstream to identify the source. Once the source of an illicit discharge has been identified, the City will utilize their regulatory mechanisms/procedures to ensure that the discharge is eliminated. Non-stormwater flows listed in Part II, Section C of TPDES General Permit TXR040000 will not be considered by the permittee as an illicit discharge unless the permittee identifies the flow as a significant source of pollutants to their small MS4.

The successfulness of the illicit discharge detection and elimination program will be evaluated based on the accomplishment of all associated measurable goals. The measurable goals were selected by analyzing the data collected during the previous permit and establishing program expectations for each associated BMP.

2.C. Best Management Practices and Measurable Goals

Best Management Practices

- A. MS4 Outfall Map:** Maintain an updated map of the MS4 indicating the location of stormwater outfalls that discharge into waters of the U.S. and the location and name of all surface waters receiving discharges from the MS4.
- B. MS4 Outfall Inspections:** Conduct inspections of all outfalls in the urbanized area (once per permit term) in order to identify and reduce the presence of illicit discharges to the MS4.
- C. Regulatory Mechanisms:** Enforce local regulatory mechanisms prohibiting illicit non-stormwater discharges from being discharged into the City's MS4. Within two years from the permit effective date, the City will review and revise, if needed, its existing regulatory mechanisms to comply with the current permit requirements.
- D. MS4 Field Staff Training:** Conduct training for MS4 field staff to provide information regarding the identification of illicit discharges and proper reporting procedures.

- E. IDDE Procedures:** Maintain procedures and all associated records for tracing/removing the source of an illicit discharge, responding to illicit discharges/spills, inspections in response to complaints, and to prevent/correct leaking on-site sewage disposal systems.
- F. Public Reporting:** Develop media to facilitate public reporting of illicit discharges. Options include stormwater hotlines, websites, and flyers/brochures.

Measurable Goals & Record Keeping

BMP	Records to be Maintained	Measurable Goals
MS4 Outfall Map	Updated outfall map showing location of outfalls and surface waters receiving discharges from the MS4	Conduct at least 1 map review per permit term
MS4 Outfall Inspections	Outfall screening data for each inspection conducted. Data will include at a minimum: date of inspection, location of outfall, and details concerning any identified discharges	Screen 20% of the outfalls within the urbanized area annually
Regulatory Mechanisms	Number of enforcement actions conducted regarding stormwater quality issues	Maintain ordinances and standard operating procedures in effect annually
MS4 Field Staff Training	Number of training sessions conducted and the associated training materials/attendance lists	Conduct training at least once per permit term
IDDE Procedures	Standard operating procedures for illicit discharge detection/elimination	Maintain IDDE standard operating procedures in effect annually
Public Reporting	Number of reports received regarding stormwater quality issues	Develop or post on the stormwater website at least 2 types of media and/or materials annually to help facilitate public reporting of stormwater quality issues

2.D. BMP Implementation Schedule and MS4 Responsibilities

BMP Implementation Schedule

BMP	Frequency of Action	Implementation Status
MS4 Outfall Map	Once Per Permit Term	October 2022
MS4 Outfall Inspections	Annually	Full Implementation Continued
Regulatory Mechanisms	Annually	Full Implementation Continued
MS4 Field Staff Training	Once Per Permit Term	October 2022
IDDE Procedures	Annually	Full Implementation Continued
Public Reporting	Annually	Full Implementation Continued

*BMPs that are implemented on an annual basis will be conducted prior to October 1st of each year.

MS4 Responsibilities

The City of Nederland is entirely responsible for implementing the BMPs and meeting the measurable goals established in this section of the SWMP. The City has agreed to limit the implementation of their BMPs to the boundaries of their MS4 within the urbanized area.

Section 3: Construction Site Stormwater Runoff Control

3.A. Permit Requirements

All permittees shall develop, implement, and enforce a program requiring operators of small and large construction activities, as defined in Part I of this general permit, to select, install, implement, and maintain stormwater control measures that prevent illicit discharges to the MEP. The program must include the development and implementation of an ordinance or other regulatory mechanism, as well as sanctions to ensure compliance to the extent allowable under state, federal, and local law, to require erosion and sediment control.

3.B. Program Overview

The permittee has assessed the program elements that were described in the previous permit term, modified them as necessary, and developed new elements to continue reducing the discharge of pollutants from the MS4 to the MEP.

The construction site stormwater runoff minimum control measure consists of BMPs that focus on the reduction of pollutants in stormwater runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre or construction activity that is part of a larger common plan of development or sale that would disturb one acre or more of land. The City has established an ordinance that prohibits illicit discharges such as wastewater, fuels, oils, soaps, solvents, etc. and requires construction site operators to implement appropriate erosion/sediment control BMPs and soil stabilization practices. Additionally, construction site operators are required to implement and maintain BMPs to minimize the discharge of pollutants from: equipment and vehicle washing, wheel wash water, building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and any leaks/spills. Details regarding specific prohibited discharges and applicable sanctions are included in the ordinance.

The successfulness of the construction site stormwater runoff control program will be evaluated based on the accomplishment of all associated measurable goals. The measurable goals were selected by analyzing the data collected during the previous permit and establishing program expectations for each associated BMP.

3.C. Best Management Practices and Measurable Goals

Best Management Practices

- A. Construction Site Plan Review:** Implement a construction site plan review program that focuses on compliance with the local construction regulations and water quality impacts. Plans must meet the requirements established in Part III.B.3(b)(2) subsections a. through c. of TPDES General Permit TXR040000.
- B. Plan Review, Inspection, and Enforcement Procedures:** Maintain and implement site plan review, inspection, and enforcement procedures that describe which plans will be reviewed, when operators may begin construction, soil stabilization requirements, and how inspection/enforcement actions will be conducted.
- C. Construction Site Inspection/Enforcement:** Conduct inspections of construction sites and associated control measures and enforce local regulatory mechanisms to the MEP.

- D. Regulatory Mechanisms:** Enforce local regulations to address stormwater runoff from construction sites which disturb one acre or more or are part of a common plan of development that disturb greater than or equal to one acre. Within two years from the permit effective date, the City will review and revise, if needed, its existing regulatory mechanisms to comply with the current permit requirements.
- E. Public Reporting:** Maintain and implement procedures for receipt and consideration of information submitted by the public regarding construction site stormwater runoff.
- F. MS4 Staff Training:** Conduct training for MS4 staff based on the employee training standard operating procedures to provide information regarding the construction site stormwater runoff program.

Measurable Goals & Record Keeping

BMP	Records to be Maintained	Measurable Goals
Construction Site Plan Review	Number of plans reviewed and approved for construction	Review construction plans annually that will result in the disturbances of greater than or equal to one acre, or are part of a common plan of development or sale that will result in the disturbance of one or more acres for compliance with local regulations
Plan Review, Inspection, and Enforcement Procedures	Standard operating procedures that address plan review, inspections, and enforcement actions related to construction site stormwater runoff	Maintain standard operating procedures in effect annually
Construction Site Inspection/Enforcement	Number of construction site inspections conducted	Inspect 50% of applicable construction sites per year, or a minimum of 20 inspections
Regulatory Mechanisms	Number of enforcement actions conducted regarding stormwater quality issues	Maintain ordinances and standard operating procedures in effect annually
Public Reporting	Number of reports received regarding stormwater quality issues	Develop or post on the stormwater website at least 2 types of media and/or materials annually to help facilitate public reporting of stormwater quality issues
MS4 Staff Training	Number of training sessions conducted and the associated training materials/attendance lists	Conduct training at least once per permit term

3.D. BMP Implementation Schedule and MS4 Responsibilities

BMP Implementation Schedule

BMP	Frequency of Action	Implementation Status
Construction Site Plan Review	Annually	Full Implementation Continued
Plan Review, Inspection, and Enforcement Procedures	Annually	Full Implementation Continued
Construction Site Inspection/Enforcement	Annually	Full Implementation Continued
Regulatory Mechanisms	Annually	Full Implementation Continued
Public Reporting	Annually	Full Implementation Continued
MS4 Staff Training	Once Per Permit Term	October 2022

*BMPs that are implemented on an annual basis will be conducted prior to October 1st of each year.

MS4 Responsibilities

The City of Nederland is entirely responsible for implementing the BMPs and meeting the measurable goals established in this section of the SWMP. The City has agreed to limit the implementation of their BMPs to the boundaries of their MS4 within the urbanized area.

Section 4: Post Construction Stormwater Management in New Development/Redevelopment

4.A. Permit Requirements

All permittees shall develop, implement, and enforce a program, to the extent allowable under state, federal, and local law, to control stormwater discharges from new development and redeveloped sites that discharge into the small MS4 that disturb one acre or more, including projects that disturb less than one acre that are part of a larger common plan of development or sale. The program must be established for private and public development sites. The program may utilize an offsite mitigation and payment in lieu of components to address this requirement.

4.B. Program Overview

The permittee has assessed the program elements that were described in the previous permit term, modified them as necessary, and developed new elements to continue reducing the discharge of pollutants from the MS4 to the MEP.

The permittee's post construction stormwater management program consists of BMPs to control stormwater discharges from new development and redeveloped sites. Operators of applicable sites are required to design, install, implement, and maintain a combination of structural and non-structural BMPs that are appropriate for the community and that protect water quality. In addition, the local drainage district (Jefferson County DD7) owns and operates a regional detention system that functions as offsite mitigation for areas where the construction of permanent structural controls is infeasible, as allowed by Part III, Section B.4(a)(1). Long-term maintenance of the structural controls owned and operated by Jefferson County DD7 is conducted by the District. Operators of privately-owned structural controls will be required to file a maintenance plan with their construction plats that are submitted to Jefferson County.

The successfulness of the post construction stormwater management program will be evaluated based on the accomplishment of all associated measurable goals. The measurable goals were selected by analyzing the data collected during the previous permit and establishing program expectations for each associated BMP.

4.C. Best Management Practices and Measurable Goals

Best Management Practices

- A. **Development Project Plan Review:** Review development plans to ensure compliance with local post construction runoff guidelines and inclusion of appropriate permanent stormwater quality controls.
- B. **Regulatory Mechanisms:** Enforce local post construction stormwater management regulations to address discharges from new development and redevelopment projects which disturb one acre or more or are part of a common plan of development that disturb greater than or equal to one acre. Within two years from the permit effective date, the City will review and revise, if needed, its existing regulatory mechanisms to comply with the current permit requirements.
- C. **Post Construction Control Inspections:** Conduct inspections of permanent stormwater quality control structures to ensure adequate long-term operation and maintenance of BMPs. Inspections are limited to the controls owned and operated by the permittee within the urbanized area.
- D. **Post Construction Procedures:** Develop and maintain standard operating procedures to document records of enforcement actions and procedures for ensuring long-term operation/maintenance of post construction stormwater control measures.

Measurable Goals & Record Keeping

BMP	Records to be Maintained	Measurable Goals
Development Project Plan Review	Number of development plans reviewed and approved with permanent post construction stormwater controls	Review development plans for the inclusion of post construction controls annually
Regulatory Mechanisms	Number of enforcement actions conducted regarding stormwater quality issues	Maintain ordinances and standard operating procedures in effect annually
Post Construction Control Inspections	Documentation of each inspection conducted of permittee owned permanent structural controls; any necessary maintenance actions or operational modifications will be noted in the inspection records	Inspect permittee owned permanent structural controls at least once per permit term
Post Construction Procedures	Standard operating procedures that address documentation of enforcement actions and long-term operation/maintenance of post construction stormwater control measures	Maintain standard operating procedures in effect annually

4.D. BMP Implementation Schedule and MS4 Responsibilities

BMP Implementation Schedule

BMP	Frequency of Action	Implementation Status
Development Project Plan Review	Annually	Full Implementation Continued
Regulatory Mechanisms	Annually	Full Implementation Continued
Post Construction Control Inspections	Once Per Permit Term	Full Implementation Continued
Post Construction Procedures	Annually	October 2020

*BMPs that are implemented on an annual basis will be conducted prior to October 1st of each year.

MS4 Responsibilities

The City of Nederland is entirely responsible for implementing the BMPs and meeting the measurable goals established in this section of the SWMP. The City has agreed to limit the implementation of their BMPs to the boundaries of their MS4 within the urbanized area.

Section 5: Pollution Prevention and Good Housekeeping for Municipal Operations

5.A. Permit Requirements

All permittees shall develop and implement an operation and maintenance program, including an employee training component that has the ultimate goal of preventing or reducing pollutant runoff from municipal activities and municipally owned areas including but not limited to park and open space maintenance; street, road, or highway maintenance; fleet and building maintenance; stormwater system maintenance; new construction and land disturbances; municipal parking lots; vehicle and equipment maintenance and storage yards; waste transfer stations; and salt/sand storage locations.

5.B. Program Overview

The permittee has assessed the program elements that were described in the previous permit term, modified them as necessary, and developed new elements to continue reducing the discharge of pollutants from the MS4 to the MEP.

The Pollution Prevention and Good Housekeeping for Municipal Operations minimum control measure consists of BMPs that focus on employee training and on the prevention or reduction of pollutant runoff from municipal operations. City employees responsible for municipal operations will attend training programs that focus on procedures for reducing the discharge of pollutants from activities such as park and open space maintenance, fleet and building maintenance, new construction/land disturbances, and stormwater system maintenance.

The City implements good housekeeping measures and non-structural BMPs that reduce the discharge of pollutants from the following municipal operations:

- Park and open space maintenance
- Street, road, or highway maintenance
- Fleet and building maintenance
- Storm sewer system maintenance
- New construction and land disturbances
- Municipal parking lots
- Vehicle/equipment maintenance and storage yards
- Salt/sand storage locations

Within the urbanized area, the City does not operate or maintain the following municipal operations:

- Waste transfer stations

The successfulness of the pollution prevention and good housekeeping program will be evaluated based on the accomplishment of all associated measurable goals. The measurable goals were selected by analyzing the data collected during the previous permit and establishing program expectations for each associated BMP.

5.C. Best Management Practices and Measurable Goals

Best Management Practices

- A. **MS4 Facility Inventory:** Maintain an inventory of applicable facilities and stormwater controls pursuant to the requirements established in Part III, Section B.5(b)(1) of TPDES General Permit TXR040000, that the permittee owns and operates within the urbanized area.
- B. **Employee Training Program:** Conduct a training program to target employees that are involved in municipal operations applicable to the pollution prevention and good housekeeping MCM.
- C. **Waste Disposal Procedures:** Maintain standard operating procedures for the appropriate disposal of waste materials from maintenance activities such as floatable collections, dredge spoils, and/or accumulated sediments.
- D. **Contractor Oversight Procedures:** Maintain procedures that contractually require contractors hired by the permittee to perform maintenance activities on permittee-owned facilities to comply with all stormwater control measures, good housekeeping practices, and facility specific stormwater management operating procedures.
- E. **Operation and Maintenance Activities:** Maintain and implement general pollution prevention plans that identify potential pollutants of concern and address stormwater discharges from permittee operation and maintenance activities, including road and parking lot maintenance, bridge maintenance, cold weather operations, and right-of-way maintenance.
- F. **Facility Inspections:** Conduct inspections of permittee owned facilities to identify potential pollutants of concern and to evaluate the effectiveness of existing pollution prevention measures. If structural controls are necessary, maintenance of the controls must be performed by the permittee and consistent with maintaining the effectiveness of the BMP. The frequency of the inspections and how they will be conducted will be described in the standard operating procedures and pollution prevention plans.
- G. **Litter/Garbage Collection:** Conduct garbage and/or litter collection to reduce floatable material discharges to the MS4.
- H. **Municipal Operation Procedures:** Maintain standard operating procedures for inspecting/maintaining structural controls at municipal facilities and for conducting employee training for staff members involved in implementing pollution prevention/good housekeeping practices.

Measurable Goals & Record Keeping

BMP	Records to be Maintained	Measurable Goals
MS4 Facility Inventory	Inventory of facilities and stormwater controls	Maintain an inventory of facilities and stormwater controls that the permittee owns and operates within the urbanized area annually
Employee Training Program	Number of training sessions conducted and the associated training materials/attendance lists	Conduct at least one employee training session per permit term
Waste Disposal Procedures	Standard operating procedures for waste disposal	Maintain standard operating procedures in effect annually for the proper disposal of waste; including dredge spoil, accumulated sediments, and floatables
Contractor Oversight Procedures	Standard operating procedures for contractor oversight	Maintain contractor oversight procedures in effect annually
Operation and Maintenance Activities	General pollution prevention plan	Maintain general pollution prevention plan in effect annually for municipal operations
Facility Inspections	Log of facility inspections and the associated inspection documentation	Inspect each permittee owned facility identified in the MS4 facility inventory at least once per permit term
Litter/Garbage Collection	Estimated volume of litter/garbage collected	Conduct litter/garbage collection on an annual basis within the regulated area
Municipal Operation Procedures	Standard operating procedures for municipal operations	Maintain standard operating procedures in effect annually for inspecting/maintaining structural controls at municipal facilities and for employee training

5.D. BMP Implementation Schedule and MS4 Responsibilities

BMP Implementation Schedule

BMP	Frequency of Action	Implementation Status
MS4 Facility Inventory	Annually	Full Implementation Continued
Employee Training Program	Once Per Permit Term	October 2022
Waste Disposal Procedures	Annually	Full Implementation Continued
Contractor Oversight Procedures	Annually	Full Implementation Continued
Operation and Maintenance Activities	Annually	Full Implementation Continued
Facility Inspections	Once Per Permit Term	October 2022
Litter/Garbage Collection	Annually	Full Implementation Continued
Municipal Operation Procedures	Annually	October 2020

*BMPs that are implemented on an annual basis will be conducted prior to October 1st of each year.

MS4 Responsibilities

The City of Nederland is entirely responsible for implementing the BMPs and meeting the measurable goals established in this section of the SWMP. The City has agreed to limit the implementation of their BMPs to the boundaries of their MS4 within the urbanized area.

Section 6: Industrial Stormwater Sources

6.A. Permit Requirements

Permittees who operate level 4 small MS4s shall identify and control pollutants in stormwater discharges to the small MS4 from permittee's landfills, other treatment, storage, or disposal facilities for municipal waste (for example, transfer stations and incinerators); hazardous waste treatment, storage, disposal and recovery facilities and facilities that are subject to Emergency Planning and Community Right-to-Know Act (EPCRA) Title III, Section 313; and any other industrial or commercial discharge the permittee determines are contributing a substantial pollutant loading to the small MS4. The program must include priorities and procedures for inspections and for implementing control measures for such discharges.

6.B. Program Overview

N/A - only applies to Level 4 Small MS4s

Section 7: Municipal Construction Activities

7.A. Permit Requirements

The development of this MCM for construction activities, where the small MS4 is the site operator, is optional and provides an alternative to the MS4 operator seeking coverage under TPDES CGP, TXR150000 for each construction activity. Permittees that choose to develop this measure will be authorized to discharge stormwater and certain non-stormwater from construction activities where the MS4 operator meets the definition of a construction site operator in Part I of this general permit. When developing this measure, permittees are required to meet all requirements of, and be consistent with, applicable effluent limitation guidelines for the Construction and Development industry (40 CFR Part 450), TPDES CGP TXR150000, and Part III.B.3 of this permit. The authorization to discharge under this MCM is limited to the regulated area, such as the portion of the small MS4 located within an UA or the area designated by TCEQ as requiring coverage. However, an MS4 operator may also utilize this MCM over additional portions of their small MS4 that are also in compliance with all of the MCMs listed in this general permit. This MCM must be developed as a part of the SWMP that is submitted with the NOI for permit coverage. If this MCM is developed after submitting the initial NOI, a NOC must be submitted notifying the executive director of this change, and identifying the geographical area or boundary where the activities will be conducted under the provisions of this general permit. Utilization of this MCM does not preclude a small MS4 from obtaining coverage under the TPDES CGP, TXR150000, or under an individual TPDES permit.

7.B. Program Overview

The permittees have elected **NOT** to utilize the optional 7th MCM.

Section 8: Impaired Water Bodies and Total Maximum Daily Load (TMDL) Requirements

8.A. Permit Requirements

Discharges of the pollutant(s) of concern to impaired water bodies for which there is a TCEQ and EPA approved TMDL are not eligible for this general permit unless they are consistent with the approved TMDL. A water body is impaired for purposes of the permit if it has been identified, pursuant to the latest TCEQ and EPA approved CWA 303(d) list or the Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d) which lists the category 4 and 5 water bodies, as not meeting Texas Surface Water Quality Standards.

The Permittee shall check annually, in conjunction with preparation of the annual report, whether an impaired water within its permitted area has been 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) which lists the category 4 and 5 water bodies. Within two years following the approval date of the new list(s) of impaired waters, the permittee shall comply with the requirements of Part II.D.4(b) (with the exception of (b)(1)c.), and shall identify any newly listed waters in the annual report (consistent with Part IV.B.2.f) and SWMP (consistent with Part III.A.2.f).

The permittee shall also determine whether the permitted discharge is directly to one or more water quality impaired water bodies where a TMDL has not yet been approved by TCEQ and EPA. If the permittee discharges directly into an impaired water body without an approved TMDL, the permittee shall perform the following activities: (Activities listed in Part II, Section D.4(b)(1) of TXR040000)

8.B. Program Overview

The City has conducted an assessment of the applicable stream segments and identified an impaired water body that receives MS4 discharges from their urbanized area. The permittee has developed focused BMPs for the discharges to the impaired water body that target activities related to sanitary sewer systems, on-site sewer facilities, illicit discharges, illegal dumping, animal sources, and residential education programs. The permittee will conduct an annual review to determine if any water bodies within the regulated area have been added to the EPA 303(d) list or the Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d). If during the course of the permit term a TMDL is developed and approved for a stream segment that did not have an existing TMDL, or a water body is listed as impaired, the permittee will begin implementation of the appropriate BMPs listed in this section. Table 8.1 includes a list of stream segments, current impairment status, pollutants of concern, and associated water quality benchmarks.

The permittee will assess progress in achieving benchmarks and determining the effectiveness of BMPs by evaluating program implementation measures. The following indicators will be utilized to assess progress towards the benchmark(s): the number of illicit discharge sources identified or eliminated, number of public education opportunities conducted, and results of outfall inspection activities.

Table 8.1

Stream Segments	Impairment Status	Parameter(s)	Benchmark(s)/Waste Load Allocation	Applicable MS4s
Alligator Bayou - 0702A	303(d) list	toxicity in sediment; toxicity in water	N/A	City of Nederland

8.C. Best Management Practices and Measurable Goals

Best Management Practices

- A. Sanitary Sewer Capital Improvement Projects:** Document and report on sanitary sewer system capital improvement projects that result in the reduction of sanitary sewer overflows, lift station improvements, and/or a reduction in the magnitude of stormwater inflow and infiltration into the sanitary sewer system.
- B. Public Reporting:** Develop educational materials and website content focused on the identification and public reporting of sanitary sewer overflows, failing on-site sewer systems, illicit discharges, and illegal dumping.
- C. Failing On-Site Sewer Systems:** Identify failing on-site sewer systems through citizen complaints and/or visual inspections conducted of the storm sewer system. Identified discharges from failing on-site sewer systems will be addressed as illicit discharges to the MS4 and enforcement actions will be implemented based on the permittee's legal authority.
- D. Maintenance of On-Site Sewer Systems:** Develop media to facilitate proper maintenance of on-site sewer systems. Educational material options include brochures, flyers, and/or websites.
- E. Outfall Inspections:** Utilize reports from MS4 field staff, citizens, and annual outfall inspections to identify illicit discharges and illegal dumping sites.
- F. Pet Waste Management:** Develop media to facilitate and promote proper pet waste management practices. Educational material options include flyers, brochures, and/or websites.
- G. Residential Education:** Develop media to facilitate public education for bacterial sources including residential sources, pet waste, proper disposal of fats, oils and greases, and decorative ponds. Educational material options include brochures, flyers, and/or websites.

Measurable Goals & Record Keeping

BMP	Records to be Maintained	Measurable Goals
Sanitary Sewer Capital Improvement Projects	Number of sanitary sewer capital improvement projects completed	Conduct a review of current and upcoming sanitary sewer capital improvement projects once per permit term
Public Reporting	Number of reports received regarding stormwater quality issues	Develop or post on the stormwater website at least 1 type of media and/or materials annually to help facilitate public reporting of stormwater quality issues
Failing On-Site Sewer Systems	Number of failing on-site sewer systems identified	Inspect 20% of the outfalls within the urbanized area annually
Maintenance of On-Site Sewer Systems	Number of materials developed and/or posted on the stormwater website	Develop or post on the stormwater website at least 1 type of media/materials per year to promote the proper maintenance of on-site sewer systems
Outfall Inspections	Outfall screening data for each inspection conducted. Data will include at a minimum: date of inspection, location of outfall, and details concerning any identified discharges	Inspect 20% of the outfalls within the urbanized area annually
Pet Waste Management	Number of materials developed and/or posted on the stormwater website	Develop or post on the stormwater website at least 1 type of media/materials per year to promote the proper disposal of pet waste
Residential Education	Number of materials developed and/or posted on the stormwater website	Develop or post on the stormwater website at least 1 type of media/materials per year to help facilitate public education for residential bacterial sources

8.D. BMP Implementation Schedule and MS4 Responsibilities

BMP Implementation Schedule

BMP	Frequency of Action	Implementation Status
Sanitary Sewer Capital Improvement Projects	Once Per Permit Term	October 2022
Public Reporting	Annually	Full Implementation Continued
Failing On-Site Sewer Systems	Annually	Full Implementation Continued
Maintenance of On-Site Sewer Systems	Annually	Full Implementation Continued
Outfall Inspections	Annually	Full Implementation Continued
Pet Waste Management	Annually	Full Implementation Continued
Residential Education	Annually	Full Implementation Continued

*BMPs that are implemented on an annual basis will be conducted prior to October 1st of each year.

MS4 Responsibilities

The City of Nederland is entirely responsible for implementing the BMPs and meeting the measurable goals established in this section of the SWMP. The City has agreed to limit the implementation of their BMPs to the boundaries of their MS4 within the urbanized area.