Stormwater Management Program
January 24, 2019 - January 23, 2024

Prepared for

Cameron County Drainage District #3
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To meet the requirements of TPDES Permit No. TXR040000

Introduction and Purpose

The Texas Pollutant Discharge Elimination System (TPDES) is a regulatory program to control discharge of pollutants into surface water of the state of Texas. Under provisions of section 402 of the Clean Water Act and Chapter 26 of the Texas Water Code, TPDES General Permit Number TXR040000 allows Small Municipal Separate Storm Sewer Systems (MS4) located within Texas to discharge stormwater and certain non-stormwater discharges directly into surface water of the state. Certain requirements and conditions must be met.

Cameron County Drainage District #3 is a non-traditional operator of a small MS4, permit TXR040276, that was covered under the previous two TPDES general permits (2007 and 2013) for small MS4s. In the new permit (2019), drainage districts are considered a Level 2 category of regulated small MS4s.

Cameron County Drainage District #3 is committed to protecting water quality throughout its jurisdiction and within the coastal waters and wetlands of Cameron County. The availability of clean water impacts public health and safety, agriculture, recreation, tourism, commercial and recreational fishing, wildlife, the environment, and many other quality of life basics. Through the development and implementation of this Stormwater Management Program (SWMP), discharge of pollutants from the MS4 will be reduced to the maximum extent practicable (MEP). The SWMP includes six minimum control measures (MCM), integrated to maximize the effect. Each MCM includes: Best Management Practices (BMPs) to reduce pollutants, measurable goals, and timelines. Existing program elements set forth in the previous permits have been assessed, and some have been modified or replaced as necessary. New program elements have been developed to continue reducing the discharge of pollutants. The BMPs and measurable goals

in this SWMP were selected based on results of the previous SWMPs, internet research and menus of BMPs found on TCEQ and EPA MS4 websites, financial feasibility of BMPs to reduce pollutants to the MEP, and limitations of a non-traditional small MS4. All elements of the SWMP will be fully implemented within the permit period, not to exceed five years from the general permit issuance date of January 24, 2019. The District will maintain records on all activities related to this SWMP and submit an annual report to the TCEQ, electronically after December 2020. The District will review and update the SWMP annually and a Notice of Change (NOC) will be submitted to the TCEQ for any substantial changes to the SWMP during the permit period. Copies of the SWMP, NOI, any changes, and annual reports will be available for public review and comment at the District's office. The District will develop a website and the SWMP, annual reports, and any other required materials will be published on it for public access.

About the District

Cameron County Drainage District #3 was created on May 13, 1912 to relieve financial burden on the San Benito Land and Water Company, a precursor to Irrigation District #2. The Drainage District added a taxing authority and the drainage that was needed due to development of agricultural land and urban areas. The District is comprised of nearly 100,000 acres in central Cameron County, Texas. It operates under the direction of a three member Board, with a staff of 42 employees. The primary function of the District is to provide adequate and quality drainage to the middle portion of Cameron County. This purpose is fulfilled through the continual maintenance of the District's drainage facilities and the control of development within its bounds. Urbanized areas within the District Include: portions of the City of Harlingen, a separate small MS4 operator; the City of San Benito, a separate small MS4 operator; the City of Rio Hondo, and the City of Los Indios. The District is located within Cameron County, a separate, non-traditional small MS4 operator. The Harlingen, San Benito, Brownsville region of South Texas has remained one of the fastest-growing urbanized areas in the United States for over a decade. Between 2000 and 2010, the County's population exploded from 335,227 to 406,220 (U.S. Census Bureau), approximately 20 percent growth in a single decade. Rapid growth is expected to continue.

Cameron County Population

Year	Population
1990	260,120
2000	335,227
2010	406,220
2016	418,785
2020	478,974
2030	559,593
2040	641,376
2050	729,461
2060	820,068
2070	912,941

(1990-2016 from U.S. Census Bureau, American Factfinder)
(2020-2070 projections from Texas Water Development Board Region M)

The District currently discharges directly into the Arroyo Colorado (21 outfalls), the Rio Grande River (1 outfall), and the Laguna Atascosa (1 outfall), all of which eventually discharge into the Lower Laguna Madre and then into the Gulf of Mexico. With the exception of the Laguna Atascosa, all of these water bodies, along with one of the District's ditches, are found on the Texas Integrated Report of Surface Water Quality. The District will check annually for any newly listed impairments and update the SWMP accordingly within two years if any are found. The only TMDL is for legacy pollutants in the Arroyo Colorado. The Arroyo Colorado Watershed Partnership (ACWP) has developed a Watershed Protection Plan (WPP) which outlines measures to ensure water quality throughout that watershed. It focuses on local surface water quality issues, pollutants of concern, and solutions. The original plan was adopted by the regional partnership in 2007. The update of this plan was accepted by TCEQ and EPA in 2017.

Impaired Waters Into Which Cameron County Drainage District #3 Discharges Directly

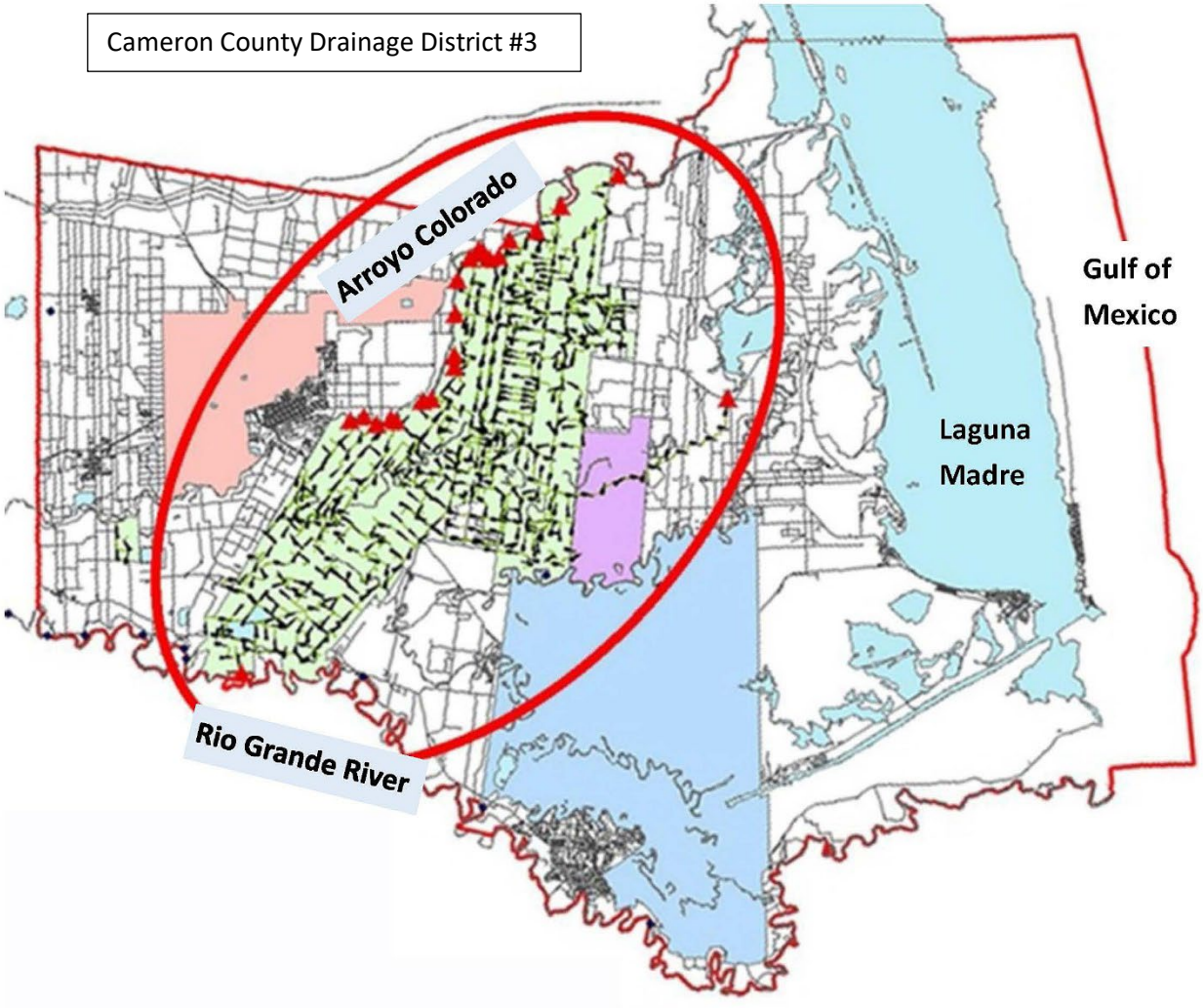
Segment #	Segment Name	Pollutant(s) of Concern (POC)
2201	Arroyo Colorado Tidal	bacteria, DDE in edible tissue, depressed dissolved oxygen, mercury in edible tissue, PCBs in edible tissue
2201B	Unnamed Drainage Ditch Tributary (B) in Cameron County Drainage District #3	bacteria
2202	Arroyo Colorado Above Tidal	bacteria, mercury in edible tissue, PCBs in edible tissue

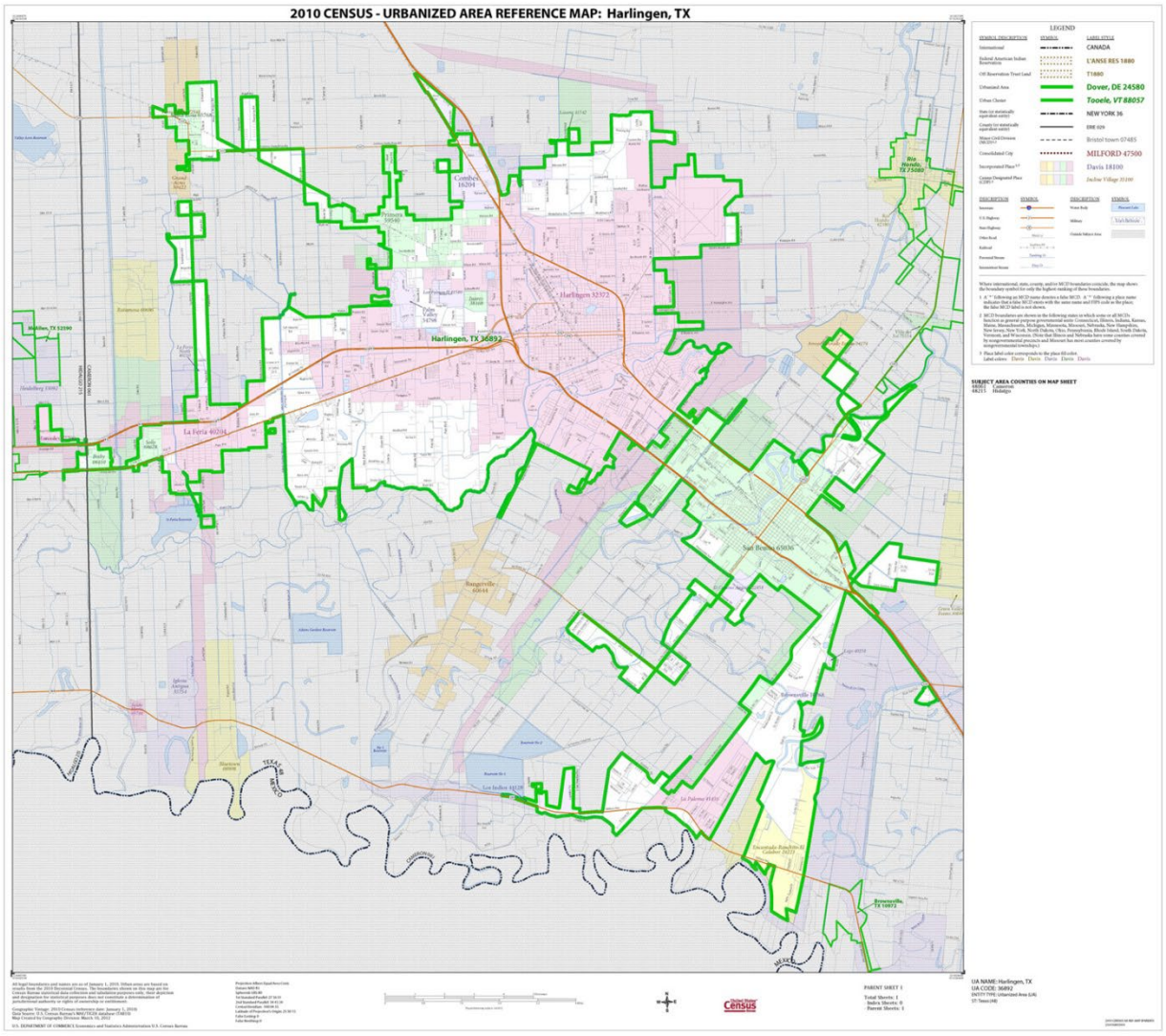
2302	Rio Grande Below Falcon Reservoir	bacteria

Impaired Waters Into Which Cameron County Drainage District #3 Discharges Indirectly

Segment #	Segment Name	Pollutant(s) of Concern (POC)
2491	Laguna Madre	bacteria, depressed dissolved oxygen
2491OW	Laguna Madre Oyster Waters	bacteria
2500	Gulf of Mexico	mercury in edible tissue

The District is not a source of these pollutants of concern (POC). Bacteria is a POC in each water body. Significant sources include: agriculture, septic systems, and illegal dumping. The District will check annually for any newly listed impairments on the 303(d) list of the Texas Integrated Report of Surface Water Quality and update the SWMP accordingly within two years if any are found.





2010 Census – Urbanized Area Reference Map, Harlingen, TX (from U.S. EPA website)

Minimum Control Measures

1. Public Education, Outreach, and Involvement

An involved and educated public is essential to the goals of preventing non-point source pollution and ensuring clean surface waters. This MCM is appropriately listed first since, without public support, the rest of the plan would be ineffective. Generally, the target audiences are the residents and visitors of Cameron County. More specific target audiences include: District employees, students, commercial and residential developers, contractors, businesses, and industry within the jurisdiction of Cameron County Drainage District #3. The measurable goal is to educate the general public and target audiences on hazards associated with illicit discharges and the improper disposal of waste, as well as steps they can take to reduce pollutants in stormwater. The District's Manager will be responsible for the implementation of this goal and the MCM. Progress toward achieving this goal will be evaluated through the implementation of each BMP, documentation of participation in public involvement activities, and an estimated number of message exposures based on the type of media used. As a result, an active public response is anticipated in reducing litter and illegal dumping, increasing the use of vegetation as a pollution control, reducing illicit discharges into the District's drainage system, and reporting illicit discharges. The District will collaborate with other MS4 operators and other entities through partnerships with the Arroyo Colorado Watershed Partnership (ACWP). The District will continue to solicit public input on this SWMP and involve stakeholders in implementation. Utilizing a variety of cost-effective education programs and partnerships, Cameron County Drainage District #3 will continue to maximize public education, outreach, and involvement.

(a) Public Education and Outreach

Best Management Practices

1. Develop a District website and publish this SWMP, annual reports, and any other required materials. Include District contact information.
2. On the District's website, offer a link to the TCEQ's Stormwater Construction Permit information and other relevant websites.
3. Annually re-stencil storm drains with information including a hotline number for reporting violations.
4. Annually attach new bumper stickers, including a hotline number for reporting violations on all District vehicles and machinery. Add the bumper sticker to 100% of new vehicles.
5. Continue to distribute educational materials, including ACWP publications and stormwater brochures, through office contacts and outreach opportunities, with emphasis on developers, contractors, businesses, and industry requesting plat reviews.
6. Continue to distribute educational materials to applicants to the District for a Subdivision Plat Review by making Subdivision Plat Review procedures and requirements available on the District's website to applicants, including requirements to obtain all applicable TCEQ permits
7. Support and collaborate with the Arroyo Colorado Watershed Partnership (ACWP) and the Arroyo Colorado Conservancy (ACC) in cooperation with other MS4 operators, businesses, media, schools, state & Federal agencies, NGOs, the LRGVDC (local COG) and others to implement public education and outreach activities throughout Cameron County. This will include distribution of materials on water quality BMPs for the Arroyo Colorado, community outreach through regional events and projects, and classroom presentations, including a minimum of one event or presentation within the District annually.

8. Comply with all state and local public notice requirements.

(b) Public Involvement

Best Management Practices

1. Afford the public an opportunity to have input on the MS4 and SWAMP through a public comment section at each regular meeting of the Board of Directors.
2. On the District's website, publish links to public involvement events taking place in cities and communities within the District, including local tire collection, recycling, and litter clean-up events.
3. Make this SWMP, NOI, updates, and annual reports available to the public.

Implementation Schedule

BMP	Action	Frequency Or Measurement
Website development	Develop a District website and publish this SWMP, annual reports, any other required materials, District contact information, and links to other relevant sites	by January 23, 2020
Publish public information on website	Publish this SWMP, annual reports, any other required materials, District contact information, and links to other relevant sites	By January 23 of each permit year
Storm drain stenciling	Inspect 100% of existing stencils and add new stencils to 100% of new outfalls	By January 23 of each permit year
Bumper stickers	Inspect 100% of existing bumper stickers, replace annually, and add stickers on 100% of new equipment	By January 23 of each permit year
Distribute educational materials	Order 200 ACWP newsletters and 200 stormwater brochures for distribution, record number of brochures distributed through office contacts and outreach opportunities, with an emphasis on developers, contractors, businesses, and industry requesting plat reviews	By January 23 of each permit year
Distribute educational materials to applicants to the District for a Subdivision Plat Review	Make Subdivision Plat Review procedures and requirements available on the District's website to applicants, including requirements to obtain all applicable TCEQ permits	By January 23 of each permit year
Support and collaborate with the ACWP and ACC - education	Financially support ACWP and ACC to provide classroom presentations, distribute stormwater quality materials, and perform community outreach	By January 23 of each permit year

Public notices	Comply with all state and local public notice requirements	By January 23 of each permit year
Public comments to Board	Provide a public comment segment in each regular monthly meeting of the Board of Directors, to include comments on the MS4	By the end of each regular monthly Board meeting
Distribute community involvement event information	On the District's website, publish links to public involvement events taking place in cities and communities within the District	By January 23 of each permit year
Publish public MS4 information on website	Make this SWMP, NOI, updates, and annual reports available to the public	By January 23 of each permit year
Maintain records	Keep records of 100% of SWMP activities	By January 23 of each permit year
Annual reporting	Submit an annual report to TCEQ	Within 90 days of the end of the reporting year

2. Illicit Discharge Detection and Elimination (IDDE)

Detection and elimination of illicit discharges into the District's MS4 is critical to protecting the quality of surface waters of the region. Illicit discharges into urban watersheds can have grave consequences on public health and safety, economic development, and the environment. Most illicit discharge incidents found within the District's authority are illegal dumping, but others are possible and must be resolved. Through this MCM, the District will continue to develop tools and procedures needed to address illicit discharges. The measurable goal is to use a variety of cost-effective programs and partnerships to continue the District's efforts and to maximize effectiveness in detecting and eliminating illicit discharges into its MS4. The District's Manager will be responsible for the implementation of this goal and the MCM. Progress toward achieving this goal will be evaluated through the implementation of each BMP, and documentation of detection and elimination of illicit discharges.

Best Management Practices

1. Annually re-stencil storm drains with information including a hotline number for reporting violations.
2. Annually attach new bumper stickers, including a hotline number for reporting violations on all District vehicles and machinery. Add the bumper sticker to 100% of new vehicles.
3. Continue to update and improve GIS maps
    a. Web mapping of ditches, outfalls, surface waters receiving discharges, bridges, box structures, road crossings, siphons, and other features as needed.
    b. Data collection - photos, size, location, and other information on each feature as needed.
    c. Train appropriate personnel on proper procedures for updating the MS4 map and inventory.
4. Continue training MS4 field personnel to identify and track illicit discharges.
    a. Discuss IDDE procedures at an employee safety meeting annually and maintain training program materials and attendance documentation on site.
5. Publicize and facilitate public reporting of illicit discharges or water quality impacts associated with discharges into or from Cameron County Drainage District #3.

a. Provide a central contact point, or “hotline,” to receive reports.
b. Utilize the District’s tracking and reporting procedure that includes the following.
    i. Reporter’s contact information (or can remain anonymous)
    ii. Time and date of call
    iii. Time and date of incident
    iv. Location
    v. Discharge indicator
    vi. Responder
    vii. Notes
    viii. Investigation results
    ix. Investigation follow-up
    x. Investigation close date

6. This SWMP and the NOI will be available for viewing at the District office at 26041 FM 510, San Benito, TX and on the District’s website.
7. Continue screening and inspecting outfalls according to the existing schedule in order to identify the presence of illicit discharges
    a. Screenings will consist of visual and odor inspections during the course of regular ditch maintenance
    b. Illicit discharges will be photographed, their location documented by GPS, and reported, investigated, and eliminated according to procedures.
    c. Continue screening 20% of entire MS4 system per year to achieve 100% coverage over the 5-year term of the permit.
8. Maintain on-site procedures for responding to illicit discharges and spills
9. Source Investigation and Elimination
    a. Prioritize the investigation of discharges based on their relative risk of pollution
    b. Report to the TCEQ immediately upon becoming aware of the occurrence of any illicit flows believed to be an immediate threat to human health or the environment
    c. Exert enforcement authority for District facilities, employees, contractors, and any other entity over which it has operational control.
    d. Perform inspections and exert enforcement authority to the maximum extent practicable (MEP).
    e. Enter into interlocal agreements with municipalities within the District. These agreements will state the extent to which the municipality will be responsible for inspections and enforcement authority in order to meet the conditions of the general permit.
    f. If the source of illicit discharge extends outside the District’s boundary, the District shall notify the adjacent permitted MS4 operator or TCEQ’s Field Operation Support Division
    g. Report illicit discharges to the appropriate municipality with enforcement authority
    h. Track all investigations and document, at a minimum, the date(s) the illicit discharge was observed, the results of the investigation, any follow-up of the investigation, and the date the investigation was closed.
    i. If and when the source of the illicit discharge has been determined, the District shall immediately notify the responsible party of the problem and shall require the responsible party to perform all necessary corrective actions to eliminate the illicit discharge.

j. The District shall conduct inspections in response to complaints, and shall conduct follow-up inspections to ensure that corrective measures have been implemented by the responsible party.
k. Install cable gates in areas of high illegal dumping incidents to limit public access
l. Remove and properly dispose of illegally dumped materials, after any appropriate investigation, as part of regular drainage ditch maintenance. Document and maintain records on number of tires and amount of other trash.

10. Address bacteria concerns in the waterways into which the District discharges directly.
    a. Continue to identify and eliminate illicit discharges from septic systems or gray water lines.
        i. Identify MS4 outfalls and receiving streams that may receive illicit discharges from septic systems.
        ii. Train MS4 inspection and outfall screening personnel on the identification of septic system discharge locations and internal tracking and reporting mechanisms.
        iii. Coordinate the identification of septic system and/or gray water discharges with the MS4 outfall screening program.
        iv. Require property owner elimination of septic system and/or gray water discharges.
    b. Continue to identify and eliminate illicit discharges from sanitary sewer leaks.
        i. Train MS4 inspection and outfall screening personnel on the identification, tracking, and reporting of sanitary sewer leaks.
        ii. Coordinate the identification of sanitary sewer system leaks with the MS4 outfall screening program.
11. Address TMDL concerns in the waterways into which the District discharges directly.
    a. A TMDL was adopted by TCEQ on July 25, 2003 for Legacy Pollutants in the Arroyo Colorado Above Tidal. The TMDL states that "Legacy pollutants are substances whose use has been banned or severely restricted by the U.S. Environmental Protection Agency (EPA). No use-related loading of legacy pollutants is allowed or expected into the environment due to these EPA restrictions."
    b. Address any new use-related loading of Legacy Pollutants reported or detected.
    c. Continue to rely on monitoring by TCEQ for Legacy Pollutants and other impairments regulated by a TMDL.

Implementation Schedule

BMP	Action	Frequency Or Measurement
Storm drain stenciling	Inspect 100% of existing stencils and add new stencils to 100% of new outfalls	By January 23 of each permit year
Bumper stickers	Inspect 100% of existing bumper stickers, replace annually, and add stickers on 100% of new equipment	By January 23 of each permit year

GIS mapping updates and improvements	Review and update mapping of ditches, outfalls, surface waters receiving discharges, illicit discharge investigations, and other features	By January 23 of each permit year
Train MS4 field personnel to identify and track illicit discharges	Discuss IDDE procedures at an employee safety meeting and maintain training program materials and attendance documentation	By January 23 of each permit year
Facilitate public reporting	Follow tracking and reporting procedure for 100% of reports	By January 23 of each permit year
Provide public access to SWMP and other MS4 records	Maintain a copy of this SWMP and the NOI at the District's office and on District's website	By January 23 of each permit year
Outfall inspection and screening	Inspect 20% of outfalls	By January 23 of each permit year
Procedures for illicit discharge & spill response	Maintain on-site procedures for responding to illicit discharges and spills	By January 23 of each permit year
Source investigation and elimination	Prioritize 100% of investigation of discharges	By January 23 of each permit year
Source investigation and elimination	Report 100% of immediate threats to TCEQ immediately	By January 23 of each permit year
Source investigation and elimination	Exert enforcement authority 100% of time when District has operational control	By January 23 of each permit year
Source investigation and elimination	Perform inspections and exert enforcement authority to the MEP for 100% of incidents	By January 23 of each permit year
Source investigation and elimination	Enter into interlocal agreements for inspections and enforcement	by January 23, 2020
Source investigation and elimination	Report 100% of illicit discharges to appropriate entity	By January 23 of each permit year
Source investigation and elimination	Track and document 100% of investigations	By January 23 of each permit year
Source investigation and elimination	Notify 100% of parties responsible for illicit discharges and perform follow-up inspections for 100% of incidents	By January 23 of each permit year
Source investigation and elimination	Determine needs for cable gates and install in 100% of locations where needed	By January 23 of each permit year
Source investigation and elimination	Remove and properly dispose of a minimum of one ton of illegally dumped materials as part of regular ditch maintenance	By January 23 of each permit year
Bacteria control	Septic system and/or gray water discharge detection and elimination	By January 23 of each permit year
Bacteria control	Sanitary sewer leak detection and elimination	By January 23 of each permit year
Address Legacy Pollutants	Report Legacy Pollutants to TCEQ and continue to rely on TCEQ monitoring	By January 23 of each permit year

Maintain records	Keep records of 100% of SWMP activities	By January 23 of each permit year
Annual reporting	Submit an annual report to TCEQ	Within 90 days of the end of the reporting year

3. Construction Site Stormwater Runoff Control

Construction activities disturbing one or more acres of land, or that are part of a larger common plan of development, are regulated by the state of Texas due to their great potential to discharge pollutants into MS4s. As a non-traditional small MS4, the District has little authority to develop and implement regulatory mechanisms and sanctions for non-compliance. It also lacks the authority to enforce sanctions for non-compliance. However, the measurable goal remains to ensure that prohibited discharges that may enter the District's MS4 are prevented or minimized. The District's Manager will be responsible for the implementation of this goal and the MCM. Progress toward achieving this goal will be evaluated through the implementation of each BMP, and documentation of both violations and compliance.

Best Management Practices

1. Enter into interlocal agreements with Cameron County and the municipalities within the District.
    a. Contact Cameron County and municipalities within the District
    b. Develop interlocal agreements that address the following:
        i. The extent to which the municipality will be responsible for inspections and enforcement authority in order to meet the conditions of the general permit
        ii. Information transfer between the agencies
        iii. Roles of each agency in elimination of illicit discharges
        iv. Timelines for actions to occur upon reporting of illicit discharge
        v. Procedures for reporting on inspection, enforcement, and elimination, including: date(s) discharge was observed, inspection results, inspection follow-up, and investigation close date
        vi. Procedures for augmentation of the agreement
2. Ensure compliance of construction sites owned or operated by the District or its contractors, located in the District's regulated area and that disturb one or more acres of land, through the development and implementation of a Stormwater Pollution Prevention Plan (SWP3).
    a. Illicit discharges such as wash out wastewater, fuels, oils, soaps, solvent, and dewatering activities are prohibited.
3. Conduct inspections of construction sites owned or operated by the District or its contractors and that are located in the District's regulated area.
    a. Determine whether the site has appropriate coverage under the TPDES CGP, TXR150000.
    b. Determine if control measures have been selected, installed, implemented, and maintained.
    c. Assess compliance with applicable local and state regulations.
    d. Keep a written or electronic inspection report.
4. Review and update the District's Subdivision Plat Review procedures. During the normal process of Drainage District review, an applicant for approval of a residential or

commercial development shall certify that it, or its contractor, have obtained or will obtain all applicable permits required by the TCEQ prior to construction, including documentation regarding TPDES CGP TXR150000 (Stormwater Construction General Permit).

5. Publicize and facilitate public reporting of prohibited discharges or water quality impacts associated with prohibited discharges from construction site stormwater runoff.
    a. Provide a central contact point, or "hotline," to receive reports
    b. Maintain a tracking and reporting procedure that includes the following.
        i. Reporter's contact information (or can remain anonymous)
        ii. Time and date of call
        iii. Time and date of incident
        iv. Location
        v. Discharge indicator
        vi. Responder
        vii. Notes
        viii. Investigation results
        ix. Investigation follow-up
        x. Investigation close date
6. Ensure that all personal whose primary job duties are related to implementing the construction stormwater program are informed or trained to conduct these activities.

Implementation Schedule

BMP	Action	Frequency Or Measurement
Interlocal agreements	Enter into interlocal agreements for inspections and enforcement	by January 23, 2020
Ensure permit compliance	Ensure compliance of 100% of construction sites over which the District has control	By January 23 of each permit year
Site inspections	Inspect 100% of construction sites over which the District has control	By January 23 of each permit year
Update plat review procedures	Review and update Construction Plan Review Procedures	By January 23 of each permit year
Public reporting	Facilitate public reporting through the outreach and follow-up procedures outlined previously	By January 23 of each permit year
MS4 personnel training	Conduct a training for 100% of training MS4 personnel responsible for plan review, inspections, or enforcement	By January 23 of each permit year
Maintain records	Keep records of 100% of SWMP activities	By January 23 of each permit year
Annual reporting	Submit an annual report to TCEQ	Within 90 days of the end of the reporting year

4. Post-Construction Stormwater Management in New Development and Redevelopment

To protect surface water quality and the MS4, post-construction stormwater runoff from new development and redevelopment will be reduced to the MEP. As a non-traditional small MS4, the District has little authority to develop and implement regulatory mechanisms and sanctions for post-construction non-compliance. Nor does the Drainage District have the authority for the enforcement of sanctions for non-compliance, outside of District construction projects. However, the District has developed strong ties to municipalities within the District. Working in partnership with those municipalities, while ensuring compliance at constructions sites over which the District has control, will protect water quality. The measurable goal of this minimum control measure is to prevent or minimize water quality impacts due to stormwater discharges from new development and redeveloped sites, that disturb one or more acres or are part of a larger common plan of development, that discharge into the District's MS4. The District's Manager will be responsible for the implementation of this goal and the MCM. Progress toward achieving this goal will be evaluated through the implementation of each BMP, and the documentation of violations and compliance.

Best Management Practices

1. Enter into interlocal agreements with municipalities within the District. These agreements will state the extent to which the municipality will be responsible for inspections and enforcement authority in order to meet the conditions of the general permit.
2. Continue to document and maintain records of enforcement actions
3. Ensure compliance and maintenance at new development and redevelopment sites owned or operated by the District or its contractors, located in the District's regulated area and that disturb more than one acre of land.
4. Ensure the long-term operation and maintenance of structural stormwater control measures installed by the District.

Implementation Schedule

BMP	Action	Frequency Or Measurement
Interlocal agreements	Enter into interlocal agreements for inspections and enforcement	by January 23, 2020
Ensure permit compliance	Ensure compliance and maintenance at 100% of new development and redevelopment sites over which the District has control	By January 23 of each permit year
Maintenance of structural stormwater control measures	Inspect and ensure long-term operation and maintenance of structural stormwater control measures installed by the District	By January 23 of each permit year
Maintain records	Continue to document and maintain records of100% of enforcement actions	By January 23 of each permit year
Annual reporting	Submit an annual report to TCEQ	Within 90 days of the end of the reporting year

5. Pollution Prevention and Good Housekeeping for Municipal Operations

Pollution prevention and good housekeeping simply require the MS4 to examine its own practices and revise its own procedures to reduce pollution. Many pollutants collect in parking lots and storage facilities, which may then be picked up by stormwater runoff. With many management strategies and maintenance techniques, some alternatives are more sustainable than others. This MCM consists of a combination of staff training and good management choices to prevent the discharge of pollutants into the MS4. The MS4 operator sets the good example of cost-effective BMPs from which others can learn. The goal of the District is to refine its activities to ultimately reduce impacts on water quality. The measurable goal is to prevent non-point source pollution through wise management of regular District operations. The District's Manager will be responsible for the implementation of this goal and the MCM. Progress toward achieving this goal will be evaluated through the implementation of each BMP.

Best Management Practices

1. Maintain an inventory of facilities and stormwater controls that it owns and operates within the regulated area including: equipment storage and maintenance facilities, fuel storage facilities, materials storage yards, pesticide storage facilities, buildings, parking lots, vehicle storage and maintenance yards, and structural stormwater controls.
2. Inspect and maintain drainage ditches in good working order
3. Clean Catch Basins as part of regular drainage ditch maintenance
4. Identify, investigate, remove, and prevent Illegal dumping
    a. Inspect drainage ditches for illegal dumping as part of regular ditch maintenance
    b. Follow proper investigative and reporting procedures
    c. Remove and properly dispose of illegally dumped materials, after any appropriate investigation, as part of regular drainage ditch maintenance. Document and maintain records on number of tires and amount of other trash
    d. Install cable gates in areas of high illegal dumping incidents to limit public access
5. Require contractors to comply with all stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures.
6. Assess operation and maintenance activities for their potential to discharge pollutants.
7. Properly apply and use herbicides and pesticides
    a. Update the inventory of areas designated for herbicide and/or pesticide application
    b. Comply with all applicable herbicide and pesticide regulations
    c. Track the amount and type of chemical applied at each location
8. Maintain parking lot
    a. Conduct daily visual inspection and removal of trash
    b. Sweep public portion of parking lot on a monthly basis
    c. Sweep entire parking lot two times per year to coincide with the area's seasons of heaviest average rainfall
9. Maintain vehicles and equipment to identify and eliminate fluid leaks
    a. Conduct routine maintenance according to manufacturer's specifications
    b. Conduct daily fluid leak inspections by operators
10. Dispose of waste materials properly.
11. Conduct a recycling program for used oil, used oil filters, metals, and paper
12. Check for and repair leaks at fueling areas and storage areas
13. Maintain stormwater structural controls annually.

14. Continue training MS4 personnel in pollution prevention and good housekeeping procedures
15. Check annually for any newly listed impairments on the 303(d) list of the Texas Integrated Report of Surface Water Quality and update the SWMP accordingly within two years if any are found.
16. Review SWMP annually during preparation of the annual report

Implementation Schedule

BMP	Action	Frequency Or Measurement
Inventory facilities and controls	Maintain an inventory of 100% of District facilities and stormwater controls	By January 23 of each permit year
Inspect and maintain drainages	Inspect and maintain 100% of District's drainage ditches	By January 23 of each permit year
Clean District catch basins	Clean 100% of catch basins	By January 23 of each permit year
Investigation	Investigate and report 100% of illegal dumping incidents	By January 23 of each permit year
Illegal dumping disposal	Remove and properly dispose of a minimum of one ton of illegally dumped materials as part of regular ditch maintenance	By January 23 of each permit year
Physical barriers to illegal dumping	Determine needs for cable gates and install in 100% of locations where needed	By January 23 of each permit year
Contractor compliance with stormwater control measures	Require 100% of contractors to comply with all stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures	By January 23 of each permit year
Operations assessment for potential discharge and prevention	Assess District operations activities for potential to discharge pollutants of concern, and develop and implement pollution discharge prevention measures	By January 23 of each permit year
Proper use of herbicides and pesticides	Properly use herbicides and pesticides and maintain records	By January 23 of each permit year
Parking lot maintenance	Visually inspect District parking lots, remove trash, and sweep annually	By January 23 of each permit year
Vehicle maintenance	Maintain vehicles and equipment to identify and eliminate fluid leaks	By January 23 of each permit year
Disposal of waste material	Dispose of 100% of District's waste materials properly	By January 23 of each permit year
Recycling program	Recycle used oil, used oil filters, metals, paper	By January 23 of each permit year

Check for fuel leaks	Check for and repair leaks at fueling and storage areas	By January 23 of each permit year
Check 303(d) list	Check annually for any newly listed impairments on the 303(d) list of the Texas Integrated Report of Surface Water Quality and update the SWMP accordingly	By January 23 of each permit year
Review and update SWMP	Review SWMP annually during preparation of the annual report	By January 23 of each permit year
Maintain structural controls	Inspect and maintain 100% of District structural control BMPs	By January 23 of each permit year
MS4 personnel training	Train 100% of MS4 personnel in pollution prevention and good housekeeping procedures	By January 23 of each permit year
Maintain records	Document and maintain records of 100% of SWMP activities	By January 23 of each permit year
Annual reporting	Submit an annual report to TCEQ	Within 90 days of the end of the reporting year

6. Industrial Stormwater Sources

Not applicable to Level 2 MS4 Operators.

7. Authorization for Construction Activities where the Small MS4 is the Site Operator

Cameron County Drainage District #3 anticipates conducting a number of construction activities during the permit period that will disturb an acre or more of land, or which will be part of a larger common plan of development, at sites owned or operated by the District. The District will be the site operator and will oversee compliance. This MCM will address construction activities throughout the entire jurisdiction of the District, including both urbanized areas and non-urbanized areas, and all MCMs shall be implemented in these areas. The measurable goal is to conserve taxpayer time and money, while maintaining the high standards of surface water quality protection in construction site stormwater management at sites owned or operated by the District. The District's Manager will be responsible for the implementation of this goal and the MCM. Progress toward achieving this goal will be evaluated through the implementation of each BMP. Elements and regulations of this MCM and each SWP3 will be followed from prior to commencement of construction through final stabilization. Records will be maintained at the District's office.

Best Management Practices

1. Develop a SWP3 for each applicable construction activity, prior to the commencement of construction. The SWP3 will be developed according to the provisions of TPDES CPG, TXR150000. Adequate BMPs in the SWP3 will be developed and modified as necessary to the meet the requirements of the permit, and to prevent stormwater pollution.
    a. Each SWP3 will include: a site description including a map, structural and non-structural measures and controls, stabilization practices, structural control

practices, permanent stormwater controls, other controls, and a description of potential pollutant sources.

b. All SWP3s will be consistent with approved state and local plans and will consider local and site-specific conditions such as weather, soils, and other characteristics.

2. A signed copy of the TCEQ approved site notice will be posted at the construction location.
3. The District will maintain oversight and control over contractor activities to ensure that the SWP3 requirements are properly implemented.
4. The District will inspect controls at each construction site to ensure that SWP3 elements are in place, are maintained in working order, and being observed.

Implementation Schedule

BMP	**Action**	**Frequency Or Measurement**
Develop a SWP3	Develop and implement a SWP3 for each applicable construction activity	per construction project
Compliance with TCEQ regulations	Post TCEQ approval at each construction site	per construction project
Maintain oversight and control	Maintain oversight and control of each construction site	per construction project
Inspect construction sites	Conduct inspections for SWP3 elements and compliance at each construction site	per construction project
Maintain records	Document and maintain records of construction project and SWP3 compliance for each construction project	per construction project
Annual reporting	Submit an annual report to TCEQ	Within 90 days of the end of the reporting year