NAVFAC Southeast

Public Works Department
Environmental Division
8851 Ocean Drive (Bldg. 19)
Corpus Christi, TX 78419

Stormwater Management Program (SWMP)

Naval Air Station Corpus Christi

Effective: 24 January 2019
Version: 27 August 2019

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Executive Summary

This Stormwater Management Program (SWMP) is required in accordance with the Texas Commission on Environmental Quality (TCEQ), General Permit to Discharge Under the Texas Pollution Discharge Elimination System (TPDES), for Small Municipal Separate Storm Sewer Systems (MS4); TPDES General Permit No. TXR 040000, effective date 24 January 2019.

A copy of the request for authorization under the permit, Notice of Intent (NOI), is included in Appendix A and the permit is included in Appendix B. A stormwater manager's guide is included in Appendix C to assist with the understanding of the permit and implementation of this SWMP. Appendix D is reserved for forms, developed as necessary, to assist with record keeping.

This SWMP documents the activities implemented and managed by NAS Corpus Christi (NASCC) to meet the permit requirements. The SWMP describes actions to protect and minimize the pollution of stormwater discharging from the installation storm sewer system to state or federal waters. The permit requires that six Minimum Control Measures (MCM) be implemented. The permit specifies the actions and documentation required to meet compliance with each MCM. These actions are listed as best management practices (BMPs) for each MCM. Each BMP clarifies the activity performed, identifies who is responsible for the action, briefly describes the process, indicates the schedule in relationship to the permit term and clarifies documentation kept on file.

As a military base with a population of approximately 7,088 people, NASCC is considered a non-traditional Level 2 MS4. As noted on the Notice of Intent (NOI), NASCC uses the calendar year as the reporting year. Annual reports are submitted within 90 days of the end of each reporting year to TCEQ.

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Note: Appendices are not submitted to the TCEQ

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Acronyms

BMPs	Best Management Practices
BOSC	Base Operations and Services Contractor
CS	Construction Site
DOD	Department of Defense
ECATTS	Environmental Compliance Assessment, Training, and Tracking System
EISA	Energy Independence and Security Act of 2007
EPR	Environmental Programs Requirement
FEAD	Facilities Engineering and Acquisition Division
FOD	Foreign Object Debris
GH	Good Housekeeping
GIS	Geographic Information System
GRC	GeoReadiness Center
ID	Illicit Discharge
IDDE	Illicit Discharge Detection Elimination
IEPD	Installation Environmental Program Director
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
MSGP	Multi Sector General Permit
MWR	Moral Welfare and Recreation
NASCC	Naval Air Station Corpus Christi
NAVFAC	Naval Facilities Engineering Command
NFADS	Naval Facilities Asset Data Store
NLT	No Later Than
NOC	Notice of Change
NOI	Notice of Intent
PAO	Public Affairs Office
PE	Public Education
PI	Public Awareness
POC	Pollutant of Concern
PWD EV	Public Works Department, Environmental Division
SWMP	Stormwater Management Program
SWP3	Stormwater Pollution Prevention Plan
TCEQ	Texas Commission on Environmental Quality
TMDL	Total Maximum Daily Load
TPDES	Texas Pollutant Discharge Elimination System

1.0 General Information

1.1 Background

Ref: Permit, Part 1 Page 9 and Part II, Section A.5, Page 13

In accordance with the state definition of a municipal separate storm sewer system (MS4), military bases are considered to have an individual MS4. NASCC must obtain authorization from the Texas Commission on Environmental Quality (TCEQ) under the **General Permit to Discharge Under the Texas Pollution Discharge Elimination System (TPDES), for Small Municipal Separate Storm Sewer Systems (MS4); TPDES General Permit No. TXR 040000** or apply for an individual permit. Each authorization is valid until the termination of the five-year TPDES MS4 General Permit.

TCEQ considers NASCC to be a **Non-Traditional Level 2 MS4 (military base with population of 7,088 people)**.

NASCC was issued authorization under the prior MS4 general permit (2009) via Permit/Registration Number TXR040329. *(This information will be updated after issuance of the new authorization for the 2019 permit)*

The permit requires the development and publication of the permittee's Stormwater Management Program (SWMP). A copy of the SWMP is submitted with the NOI to TCEQ (Austin), concurrently a copy of the SWMP and the NOI is provided to the Regional TCEQ Office (Region 14 - Corpus Christi).

NASCC is solely responsible for the implementation of its SWMP. NASCC has not established MS4 partnering with the local MS4 operator outside of the community. Employees who live outside of the installation and on-site residents may participate in local MS4 activities but these efforts are not tracked or considered for implementation of minimum control measures compliance.

1.2 Area Included in the Program

NASCC is situated on a 2,340-acre tract of land within the city limits of Corpus Christi, Nueces County, Texas, on State Highway 358 on the Encinal Peninsula in the Gulf of Mexico.

This plan covers the entire installation located within the fence line. This plan does not duplicate areas covered by other TPDES permits, but rather complements the stormwater management activities.

The eastern portion of NAS Corpus Christi is mainly residential housing, which consists of single-family homes, attached family homes, apartments, and dormitory buildings. The buildings on the

north side of the installation are mostly for industrial activities. The western portion of the site encompasses the airfield and several buildings supporting the airfield. Industrial work areas covered by the TPDES General Permit for Storm Water Discharge Associated with Industrial Activity (TXR050000) include all airfield operations and hazardous waste storage. The installation operates its own sanitary sewer system. The wastewater treatment plant is covered by an individual TPDES wastewater permit. There are no septic systems within the installation footprint. Other buildings on the installation include office administration, public works, commercial operations, residential, recreational activities, and childcare.

1.3 Receiving Water Bodies

Ref: Permit, Part II, Section D.4, Page 17

The installation overall site drainage is described in the Stormwater Pollution Prevention Plan (SWP3) located in the Public Works Department (PWD), Environmental Division (EV) and maintained by the Stormwater Program Manager.

NASCC discharges to three different water bodies. The MS4 discharges to the north to *Corpus Christi Bay*, to *Laguna Madre* on the eastside, and to *Oso* Bay on the west side.

All these water bodies are included in the TCEQ 2014 303d list with categories as listed below:
4a – All TMDLs have been completed and approved by EPA.
5a - TMDLs are underway, scheduled, or will be scheduled for one or more parameters.
5b - A review of the standards for one or more parameters will be conducted before a management strategy is selected, including the possible revision to the water quality standards.
5c - Additional data or information will be collected and/or evaluated for one or more parameters before a management strategy is selected.

	Table 1-1: Water Quality Impaired Water Bodies				
Water Body	Category 4a	Category 5a	Category 5b	Category 5c	TMDL
Oso Bay (Segment 2485)	bacteria	bacteria	depressed dissolved oxygen		Established by EPA
Corpus Christi Bay (Segment 2481)		bacteria			NA
Laguna Madre (Segment 2491)		bacteria (oyster waters)	depressed dissolved oxygen	bacteria	NA

1.4 Targeted Controls and Measurable Goals Due to TMDL

Ref: Permit, Part II, Section D.4, Page 17

All residential and employment areas of the installation are included in in the Public Education and Outreach minimal control measure. Additionally, industrial work areas receive training as required in accordance with the TPDES MSGP permit. Identification of the surrounding impaired waters for bacteria pollution is included in the stormwater pollution prevention awareness training.

Throughout the developed area of the installation the most significant potential for bacteria contamination to the receiving waters is a breakdown of the sanitary sewage system. There are several lift stations on the installation. A few of the lift stations include visual alarms (lights). Control and management of an illicit discharge is included under the Illicit Discharge, Detection and Elimination minimal control measure.

1.4.1 Oso Bay (established TMDL)

NASCC is not a contributor to the bacteria TMDL for Oso Bay. See Table 1-1. NASCC does not hold a discharge permit in the Oso Watershed. The area that sheet flows to Oso Bay is open vegetated land surrounding the installation flight line (Figure 1-1).

NASCC discharge to Oso Bay is via one industrial stormwater outfall and a few others that collect sheet flow from around the flight line. The industrial outfall that discharges to Oso Bay is covered by the installation's TPDES MSGP, (#TXR05P596). Assessment of water quality for the outfall is performed via the permit required visual and sampling monitoring.

NASCC has determined that the following apply to the stormwater that discharges to Oso Bay:

- There is minimal sanitary sewer system infrastructure in the area. There are four aircraft hangars on the north side (other side from Oso Bay) of the flight line (Basin MM) (Figure 1-1). The utility connections flow away from the flight line. There are no sanitary sewer system lines affiliated with any of the basins that drain to Oso Bay.
- There are no on-site sewage facilities affiliated with the areas that sheet flow to Oso Bay.
- There are no organized animal sources (grazing, zoos, pet waste etc.) within the areas that sheet flow to Oso Bay. The area is secured with limited access due to flight line activities.
- There are no residential areas that sheet flow from the installation to Oso Bay.
- There is no identified source for the POC, bacteria, from the sheet flow to Oso Bay from the installation.

1.4.2 Corpus Christi Bay (impaired)

Stormwater discharge along the installation boundary with Corpus Christi Bay is a mix of sheet flow, and industrial and nonindustrial outfalls. See Figures 1-2, 1-3, 1-4 at the end of this section (the legend is on Figure 1-1). Only one area is considered to have a potential significant source of bacteria and that area is covered by an individual TPDES wastewater discharge permit.

The highest potential source for contributing to the POC, bacteria into Corpus Christi Bay, is the installation sewage treatment plant (Figure 1-2). The plant is covered by TCEQ TPDES permit # WQ0002317000. The plant discharges treated wastewater directly to the bay and sends monthly discharge reports to TCEQ. (Stormwater that falls around the plant area is routed into the plant and thus treated prior to discharge). Since this area is covered by its own TPDES permit and has water quality monitoring in place, no additional BMPs for the POC are established under the MS4 permit.

Northwest of the sewage treatment plant there is no infrastructure with the exception of the road leading to the back gate of the installation. Stormwater sheet flows to Corpus Christi Bay in this area. There are no known sources for the POC, bacteria.

Immediately northeast of the sewage treatment plant is an unoccupied residence scheduled for demolition. No sanitary sewage system problems were reported from the house.

The main structure along Corpus Christi Bay boundary is the quay wall and tarmac that supports eight aircraft hangars (Figures 1-2 and 1-3). Stormwater is discharged to the bay via curb cuts, one central industrial outfall, and one nonindustrial outfall at the eastern end. The stormwater discharge at the curb cuts and outfall are monitored as part of the installation's TPDES MSGP, (#TXR05P596). The sanitary sewage lines from the hangars are routed away from the water towards the road that is parallel to the quay wall. Due to the routing of the sewage piping and the use of curb cuts to drain the stormwater on the quay wall, this area is not considered be a significant source for the POC, bacteria.

The northeast portion of the boundary contains a housing area that is separated from Corpus Christi Bay by vegetation and security fencing along the paved road adjacent to the quay wall (Figures 1-3 and 1-4). Stormwater from this housing area discharges via an outfall to Laguna Madre. Due to the routing of the stormwater and the barrier between the development and the bay, this area is not considered be a significant source for the POC, bacteria for Corpus Christi Bay.

Just east of the housing is a recreational vehicle and camping park that includes a laundry facility and dump station (see Figure 1-4). The laundry facility and dump station are plumbed to the installation sewage treatment plant. The installation has not designated this area as a significant source for the POC, bacteria. Stormwater from the park discharges to Corpus Christi Bay. Beyond that area is a secure bunker area that has no sanitary sewage lines. There is no identified source for the POC, bacteria from the sheet flow to Corpus Christi Bay from this area (See Figure 1-4)

1.4.3 Laguna Madre (impaired)

Laguna Madre receives stormwater via sheet flow, two industrial outfalls, and several nonindustrial outfalls (see Figure 1-5 at the end of this section). No areas along the boundary with Laguna Madre are considered to be a potential significant source of bacteria pollution.

The sheet flow is from the north eastern tip of the installation that is undeveloped with the exception of bunker storage. There is no sanitary sewage system in the bunker area. There is no identified source for the POC, bacteria from the sheet flow to Laguna Madre from this area.

The industrial outfalls that discharge to Laguna Madre are covered by the installation's TPDES MSGP (#TXR05P596). Assessment of water quality for the outfall is performed via the permit required visual and sampling monitoring.

There are residential areas with stormwater runoff discharges to Laguna Madre. These houses are plumbed to the installation sanitary sewage treatment plant.

1.5 Edwards Aquifer Recharge Zone

Ref: Permit, Part II, Section D.5, Page 21

NASCC does not discharge or contribute to the Edwards Aquifer Recharge Zone. This area has special permitting conditions required by the Edwards Aquifer Rule.

1.6 Public Notice Process

Ref: Permit Part II, Section E.6, Page 25

In accordance with the with the requirements of the permit as referenced above and any other instructions provided by the TCEQ's Office of Clerk, a public notice shall be published in the local municipality newspaper, the Corpus Christi Caller Times.

A copy of the NOI, SWMP, TCEQ Executive Director's General Permit' Fact Sheet and any other required information shall be made available for the 30-day comment period at the local library listed below. If significant public interest exists, the material shall be available at the library for an additional 30 days or until after a public meeting or per the instructions provided by the TCEQ Executive Director.

Janet F. Harte Library, 2629 Waldron Road, Corpus Christi, TX 78418
Phone: 361-937-6569

1.7 Recordkeeping

Ref: Permit Part IV, Sections A, Page 52

All records are kept in the PWD EV office and preserved for the life of the permit or three years, whichever is longer. This SWMP, including a copy of the permit and supporting documentation are kept in the PWD EV office located at 8851 Ocean Drive (Building 19) at NASCC.

1.8 SWMP Management: Updates and Annual Report

Ref: Permit Part II, Section E.6, Page 25; Permit Part IV, Section B.2, Page 53-54

The PWD EV Stormwater Manager is responsible for the implementation, annual review, and updates to the SWMP based on permit requirements. The SWMP strives to avoid duplicating pollution prevention activities performed as standard operating procedures. Changes made during the annual review are documented and submitted to TCEQ with a Notice of Change (NOC) form, if applicable, in accordance with permit.

The PWD EV Stormwater Manager is responsible for completing the annual report. The annual report addresses the previous reporting year. As noted on the Notice of Intent (NOI), NASCC uses the **calendar year** as the reporting year. Annual reports are submitted within 90 days of the end of each reporting year to the Texas Commission of Environmental Quality. The annual report describes the activities related to MS4 program the installation has accomplished within that year. In accordance with the state and local public notice requirements, the SWMP and the annual report will be posted on the installations web address:

https://www.cnic.navy.mil/regions/cnrse/installations/nas_corpus_christi/om/environmental_support.html

TCEQ has determined that the activities conducted during the transitional period between the expired and the new general permit shall be reported along with the Year 1 annual report submitted under the new general permit.

Table 1-2: Annual Report Schedule

Year	Reporting Period	Due NLT
Year 1	24 January 2019 - 31 December 2019	31 March 2020
Year 2	1 January -31 December 2020	31 March 2021
Year 3	1 January -31 December 2021	31 March 2022
Year 4	1 January -31 December 2022	31 March 2023
Year 5	1 January -13 December 2023	31 March 2024
The permit went into effect on 24 January 2019 and thus will terminate on 24 January 2024.		

1.9 Best Management Practices (BMPs) Schedule

Ref: Permit Part II, Section E.3, Page 24

The following table summarizes the schedule for BMP implementation per minimum control measure over the length of the permit.

Table 1-3: BMP Summary and Schedule

Public Education, Outreach, and Involvement						
	2020-Year 1	2021-Year 2	2022-Year 3	2023-Year 4	2024-Year 5	Frequency
PE-1: Stormwater Pollution Prevention Brochure	Develop and Distribute	Update and Distribute	Update and Distribute	Update and Distribute	Update and Distribute	Ongoing
PE-2: Base Newspaper Articles	NLT May NLT Nov	NLT May NLT Nov	NLT May NLT Nov	NLT May NLT Nov	NLT May NLT Nov	Twice/year
PE-3: Storm Inlet Stenciling/Placarding	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Once/Year
PI-1: Annual Base Clean-Up	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Once/Year
PI-2: Foreign Object and Debris (FOD) Walks	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing

Illicit Discharge Detection and Elimination (IDDE)						
	2020-Year 1	2021-Year 2	2022-Year 3	2023-Year 4	2024-Year 5	Frequency
ID-1: MS4 Mapping	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
ID-2: Outfall Inspection Program	Develop and Implement	Inspect 1/5 of Outfalls	Inspect 1/5 of Outfalls	Inspect 1/5 of Outfalls	Inspect 1/5 of Outfalls	1/5 of Outfalls Inspected Annually
ID-3: Illicit Discharge Tracing and Removal	Ongoing	Ongoing	Document Program	Ongoing	Ongoing	Ongoing
ID-4: Identifications to Other MS4 Operators	As Necessary	As Necessary	As Necessary	As Necessary	As Necessary	As Necessary
ID-5: Prevent and Correct On Site Sewage Leaking	Ongoing	Ongoing	Document Program	Ongoing	Ongoing	Ongoing

Construction Site Stormwater Runoff Control						
	2020-Year 1	2021-Year 2	2022-Year 3	2023-Year 4	2024-Year 5	Frequency
CS-1 Erosion and Sediment Control Program		Document policy	Document policy	Document policy		Ongoing
CS-2: Prohibited Discharge Identification				Document Program		Ongoing
CS-3: Construction Plan Review Procedures	Document Program					Ongoing
CS-4: Construction Site Inspections	Ongoing	Ongoing	Document Program	Ongoing	Ongoing	Ongoing

Post Construction Stormwater Management in New Development and Redevelopment						
	2020-Year 1	2021-Year 2	2022-Year 3	2023-Year 4	2024-Year 5	Frequency
BMP PC-1 EISA Compliance	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
BMP PC-2 Long Term Maintenance	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing

Pollution Prevention and Good Housekeeping for Municipal Operations						
	2020-Year 1	2021-Year 2	2022-Year 3	2023-Year 4	2024-Year 5	Frequency
GH-1: Staff Training	Determine Training (in-house or contract)	Determine Training (in-house or contract)	Implement NLT Year 3			Once every 3 years. Start year will depend on implementation year.
GH-2: Contractor Pollution Prevention Education	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing

Pollution Prevention and Good Housekeeping for Municipal Operations						
GH-3 Maintenance Activities Pollution Prevention	Ongoing	Ongoing	Document Program	Establish Tracking/Insp	Ongoing	Ongoing
GH-4 Routine Cleanup of Outside Areas	Ongoing	Ongoing	Document Program	Establish Tracking/Insp	Ongoing	Ongoing

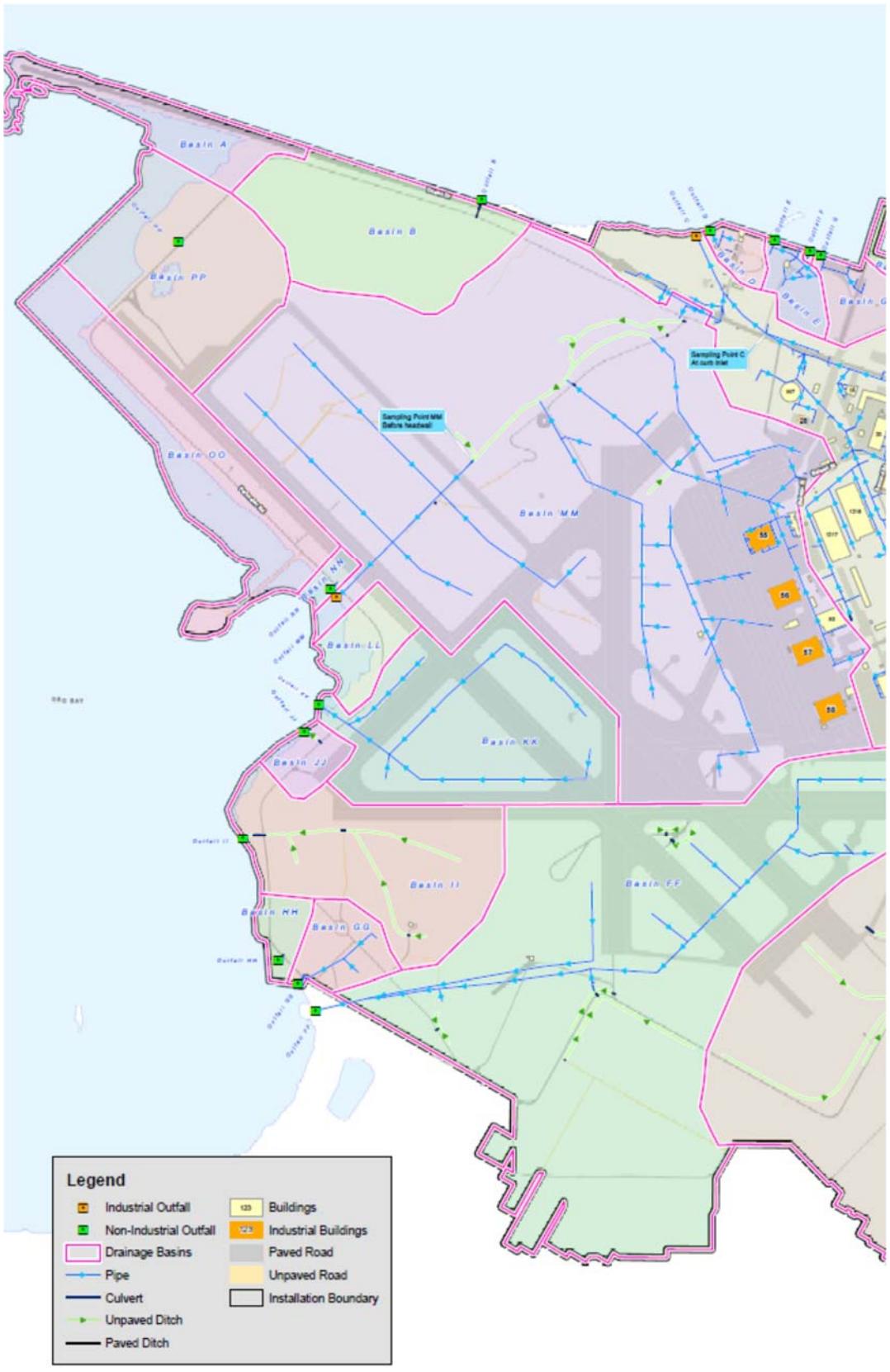

Figure 1-1: Stormwater Discharge to Oso Bay

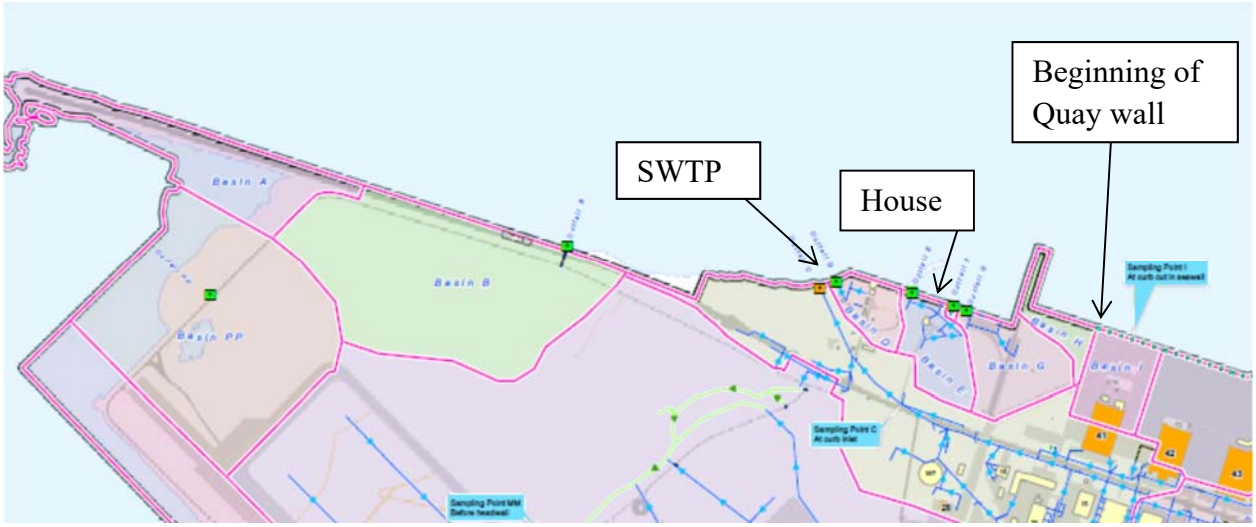

Figure 1-2: Stormwater Discharge to Corpus Christi Bay NW

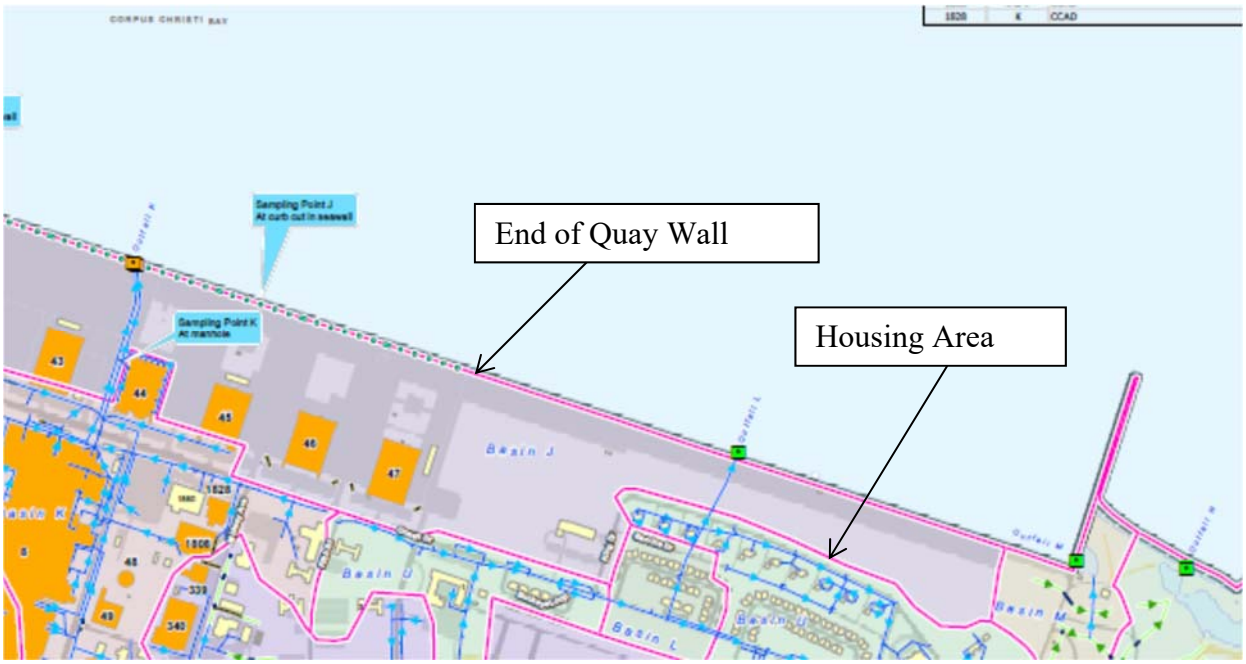

Figure 1-3: Stormwater Discharge to Corpus Christi Bay N

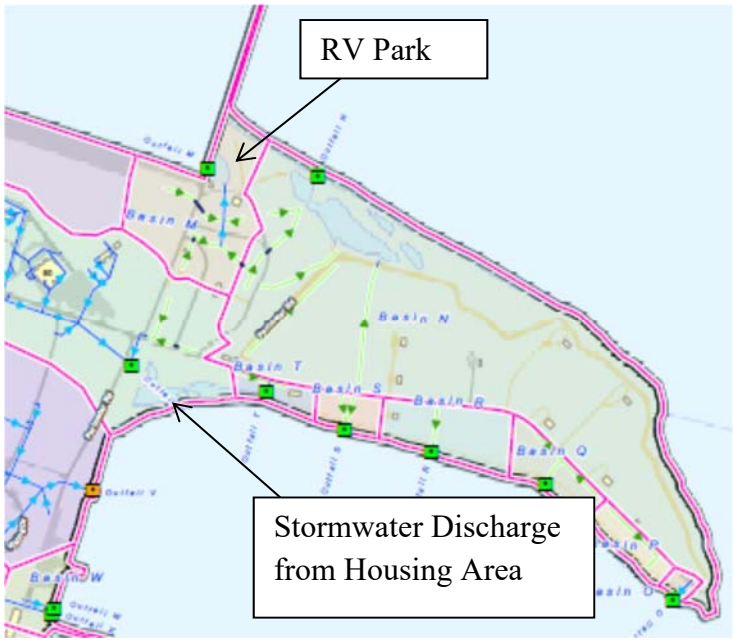

Figure 1-4: Stormwater Discharge to Corpus Christi Bay NE

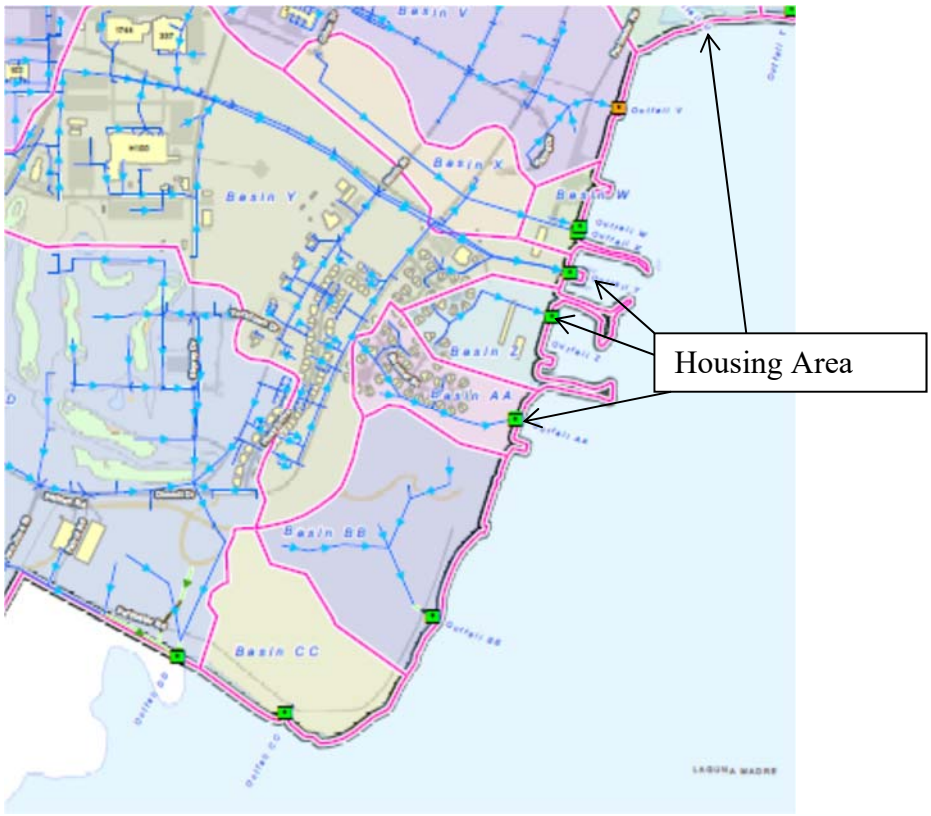

Figure 1-5: Stormwater Discharge to Laguna Madre

2.0 Public Education, and Outreach and Involvement

Ref: Permit, Part III, Section B.1, Page 35

This program has two Minimum Control Measures (MCM): Public Education and Outreach (PE) and Public Involvement (PI). The best management practices (BMPs) for these control measures focus on developing, implementing, and maintaining a comprehensive stormwater education and outreach program for installation employees, residents, and onsite contractors. Education covers the hazards and impacts of waste and debris that enter or have the potential to enter the stormwater conveyance system.

2.1 Public Education and Outreach (PE)

Ref: Permit, Part III, Section B.1(a)(1) -(5), Page 35-36

In accordance with the permit, the program must at a minimum address the following issues:

Goals and Objectives: Educate personnel living and working at the installation on the impact of non-stormwater and contaminated stormwater discharges to receiving waters as well as clarify options and opportunities to reduce stormwater pollution.

Target Audience: The target audience are military, civilian, and contractor employees that work at NASCC on a daily basis, also including residents in the station housing and billeting, and transient students and visitors.

Method to educate the audience: Articles and self-training materials will be utilized to distribute stormwater protection education and awareness information. These actions are described in the BMPs for Public Education. Contractor training and staff training is covered under the MCM *Pollution Prevention and Good Housekeeping*.

Determine cost effective and practical method for educational materials: The base newspaper, and brochure handouts are the most cost effective and practical methods to distribute the material to the target audience.

The BMPs for Public Education and Outreach include stormwater awareness education for the various installation audiences and storm drain stenciling.

2.2 Public Involvement (PI)

Ref: Permit, Part III, Section B.1(b), Page 36

The permit requires the involvement of the public in the SWMP planning and implementation activities. Due to the operations and security of the NAS Corpus Christi, the target audience of this MS4 is not directly involved in the development of the program. In line with other compliance actions for the military base, all personnel authorized to be on the military base consent to comply with base requirements which includes this SWMP.

Due to security, safety, and liability issues, the planning and implementation activities related to developing and implementing the SWMP are generally limited to employed personnel rather than the general public of the installation.

The BMPs for Public Involvement include routine cleanup of assigned areas and flight line.

2.3 Best Management Practices (BMPs)

- PE-1: Stormwater Pollution Prevention Brochure, Electronic
- PE-2: Base Newspaper Articles
- PE-3: Storm Inlet Stenciling/Placarding
- PI-1: Annual Base Clean-Up
- P1-2: Foreign Object and Debris (FOD) Walks

The BMPs for this MCM are tabulated on the following pages:

Table 2-1: BMP PE-1 Stormwater Pollution Prevention Brochure
BMP Description Develop, maintain and distribute a stormwater protection and awareness brochure titled "A Guide to Stormwater Pollution Prevention". The brochure includes information about impacts from improper disposal of waste or chemicals on stormwater discharge, identifies ways individuals can prevent storm water pollution, clarifies concerns of illicit discharges, and provides contact information for stormwater pollution issues. The brochure is available to installation personnel via the NASCC Housing Office, public events, informational bulletin boards and direct distribution.
Responsibility The NASCC Public Works Department (PWD) Environmental Division (EV), Stormwater Manager is responsible for creating the brochure, its distribution, and updated.
Process Year 1: PWD EV, Stormwater Manager shall create a brochure that is site specific and addresses pollution prevention activities that are applicable to residential area and working areas. The brochure shall include at a minimum guidance on proper disposal of hazardous wastes, garbage, oils, pet waste, yard waste, and use of fertilizers. The brochure shall identify the adjacent waterways and clarify a pollutant to the stormwater system. Contact information for PWD EV shall be included. The brochure will be emailed and posted online. The Stormwater Manager is responsible for annual updates of the publication and distribution of the brochure.
Schedule Year 1 - Develop, publish and distribute the brochure. Year 2-5 - Update, publish and distribute the brochure**.**
Reporting and Record Keeping Annually document the number of publications distributed, the distribution list, and accomplishment of an annual review/update. Include a copy of the brochure with the SWMP records.

Table 2-2: BMP PE-2 Base Newspaper Articles
BMP Description The NASCC newspaper, *Wingspan*, is published every two weeks. Twice a year, an article relating to stormwater or the watershed is included in the base newspaper. The newspaper is available to all installation employees, residents, and base visitors. The newspaper distributes approximately 5,000 copies per print and is available online.
Responsibility NASCC PWD EV, Stormwater Manager is responsible for submitting articles to the installation paper for publication.
Process PWD EV develops an article that is either site specific or provides general information regarding stormwater or the watershed. The article content informs and educates installation personnel on storm water pollution prevention, the local watershed, water quality criteria, and impacts to local waterways. The draft article is routed for review and approval by the Public Affairs Office prior to public distribution. Publications must follow the Department of Navy, Office of Information, Navy Public Affairs Tactic Manual (CHINFOINST 5720.8A) and command guidance for the appropriate routing. Alternately, PWD EV may publish a stormwater pollution prevention article that NAVFACSE PAO has approved for all installations.
Schedule Semi-annually.
Reporting and Record Keeping Annually document the Author/Source of and publication date for the articles. Include copies of the printed newspaper articles with the SWMP records.

Table 2-3: BMP PE-3 Storm Inlet Stenciling/Placarding
BMP Description Stencil or attach permanent placards at existing stormwater inlets. Inlet stamping is a reminder the stormwater drains to a surface waterway without treatment.
Responsibility The NASCC PWD EV Stormwater Manager is responsible requesting funds, planning, and coordinating the stormwater inlet stenciling/placarding.
Process The PWD EV Stormwater Manager is responsible to order storm drain markers or stickers, and the applicable adhesive for labelling the inlets. In some areas it may be more appropriate to spray point "stormwater only" or "drains to bay" adjacent to the inlet. The PWD EV Stormwater Manager is responsible for determining which type of marking is best suited for each area and coordinating the accomplished of the marking. Via site inspections, the EV Stormwater Manager identifies inlets/drains that need labelling or re-labeling due to fading or failure of the prior marker. The EV Stormwater Manager targets to maintain 75% marking in public areas and 50% marking in industrial and security restricted areas. NLT Year 3 the Storm Inlet Stenciling/Placarding Program shall be documented. The documentation shall include the past sources used to purchase labelling supplies, the order process, list and/or mapping of marked inlets and when the most recent mark was placed on an inlet.
Schedule Quarterly and at a minimum once annually for the term of the permit.
Reporting and Record Keeping The number of inlets newly marked or remarked is tracked annually. The documentation is maintained with the SWMP records.

Table 2-4: BMP PI-1 Annual Base Clean-Up
BMP Description There is an annual installation wide clean up to keep debris out of the stormwater conveyance system. Once a year, NASCC conducts a volunteer clean-up day. During the event, the community picks up trash throughout the facility in the public areas.
Responsibility The NASCC PWD Installation Environmental Program Director will assign an Environmental Division (EV) liaison to coordinate the annual clean up event with the installation's military and tenant commands. Stormwater Manager will collaborate with the Public Affairs Office (PAO) who, in turn, coordinates public involvement.
Process Date is determined based on weather and other installation events.
Schedule Once a year for the term of the permit.
Reporting and Record Keeping Annually document the date of the event. Keep copies of announcements and articles of the base clean-up event with the SWMP records.

Table 2-5: BMP P1-2 Foreign Object and Debris (FOD) Walks
BMP Description NASCC conducts foreign object and debris walks daily, on and around all of the airstrips, utilizing NASCC military and civilian employees. This is a standard procedure to ensure that aircraft pathways are clear of debris, materials, parts and any leaks or spills as these items could disrupt flight operations. Cleaning up the flight line area ensures that spills and debris are kept out of the stormwater conveyance system.
Responsibility NASCC Air Operations is responsible for coordinating and tracking the FOD walks at the airfield flightline.
Process Personnel that work along the flightline and with air operations are responsible for daily FOD checks in and around their work area. Once a quarter the NASCC Public Works Department (PWD), Environmental Division (EV), Stormwater Manager contacts NASCC Air Operations to verify that FOD walks are documented and that there have been no FOD incidences.
Schedule Daily during flying operations for the term of the permit.
Reporting and Record Keeping An annual record documenting the quarterly checks regarding FOD walks/incidences is kept with the SWMP records.

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3.0 Illicit Discharge Detection and Elimination (IDDE)

Ref: Permit, Part III, Section B.2. Page 36

An Illicit Discharge Study was conducted for the industrialized areas covered by the Phase I Industrial permit in 1995. This study detailed all illicit connections and made recommendations on corrective actions. All illicit discharges were corrected.

The objectives of the illicit discharge detection and elimination program are to:

1. Establish and carry out procedures to identify and remove illicit discharges,
2. Provide public education and encourage involvement in eliminating illicit discharges.
3. Maintain mapping that identifies the stormwater conveyance system and thus the potential pathway of pollutants to discharge to local waterways.

The installation operates its own sanitary sewer system. The wastewater treatment plant is covered by an individual TPDES wastewater permit. There are no septic systems within the installation footprint.

3.1 Allowable Non-Stormwater Discharges

Ref: Permit, Part II, Section C, Page 16 and Part III, Section B.2(b), Page 37

The permit includes a list of allowable non-stormwater discharges that are exempt from the IDDE program, unless they are a significant source of contamination to the stormwater conveyance system.

3.2 Requirements for All Permittees

Re: Permit Part III, Section B.2(c), Page 37

Public Reporting of Illicit Discharges and Spills: This effort is covered under the *Public Education and Outreach* MCM. Part of the pollution prevention education includes clarifying what is an illicit discharge and who to call for reporting an incident.

Education and Training for field staff: The field staff who may come in contact with an illicit discharge or illicit connection as part of their normal job responsibilities include various tenants and commands on the base particularly around the airfield, Public Works Department (PWD), and construction projects managed by contractors. Overall pollution prevention and spill response training is emphasized and provided to all personnel that work outdoors. The training BMP is covered under the *Pollution Prevention and Good Housekeeping* MCM.

All other requirements for a Level 2 MS4 are covered within the BMPs for this MCM.

3.3 Best Management Practices (BMPs)

- ID-1 MS4 Mapping
- ID-2 Outfalls Inspection Program
- ID-3 Illicit Discharge Tracing and Removal
- ID-4- Notifications to Other MS4 Operators
- ID-5 Prevent and Correct On Site Sewage Leaking

The BMPs for this MCM are tabulated on the following pages:

Table 3-1: BMP ID-1 MS4 Mapping
BMP Description Maintain an updated stormwater layer in the installation geo-database. GIS mapping for the installation's stormwater conveyance system was updated September 2016.
Responsibility The NASCC Public Works Department, Environmental Division, Stormwater Manager is responsible for requesting and coordinating updates to the stormwater mapping from the Georeadiness Center (GRC) representative.
Process NASCC has a stormwater layer within the installation **Geographic Information System (GIS)**. The stormwater layer includes all key elements of the MS4 i.e. inlets, outlets, manholes, vegetative swales, pipe lines, culverts, outfalls, holding ponds, flow direction, and drainage basin lines. The geodatabase is updated as necessary. The stormwater layer is available online to installation personnel. The Stormwater Manager notifies the GRC when it is necessary to update the stormwater conveyance system mapping. The Stormwater Manager coordinates field work with the data collector as necessary. Updates may be required due to new construction, change in operations, or reconfiguration of traffic (road or flight line) structures and or to resolve unknown system issues. If the GRC is unable to support the mapping update, the Stormwater Manager develops a project request so that funding can be established to update the mapping.
Schedule Continually for the life of the permit.
Reporting and Record Keeping NA

Table 3-2: BMP ID-2 Outfall Inspection Program
BMP Description Visually inspect all outfalls during the life of the permit. The outfall inspections verify that there are no illicit discharges or connections. The inspections are completed during dry-weather. If a suspected illicit discharge or connection is identified, the issue will be managed under *the Illicit Discharge Tracing and Removal* BMP.
Responsibility The NASCC Public Works Department, Environmental Division, Stormwater Manager is responsible for developing and implementing an outfall inspection program.
Process The inspection program covers all outfalls within the installation. The program ensures that all installation outfalls are inspected at least once during the life of the permit. The inspection program complements the requirements of the TCEQ Multi Sector General Permit (MSGP).
Schedule Year 1 - Develop and document the outfall inspection program. The program documentation shall include mapping and identifying all installation outfalls, and a schedule for inspections over the permit period. The program shall complement inspections for the outfalls identified as "industrial" and sampled in accordance with the installation Stormwater Pollution Prevention Plan (SWP3). Initiate inspection of at least 1/5th of the installation outfalls in Year 1. Year 2-5 - Implement ***Outfall Inspection Program.***
Reporting and Record Keeping An inspection form for each outfall shall be kept on file with the SWMP records.

Table 3-3: BMP ID-3 Illicit Discharge Tracing and Removal
BMP Description Trace, remove and manage the source of illicit discharges that are found during the outfall inspections or as the result of calls-ins to the Public Works Department. Establish and implement procedures for the identification of the source of non-stormwater discharges in the stormwater conveyance system. Establish and implement procedures for removal and elimination of unpermitted non-storm water discharges. Document measures taken to remove the discharge and prevent recurrences. This is a daily, quarterly and annual activity documented during this permit period.
Responsibility The Public Works Department (PWD) is responsible for removing illicit discharges. The PWD Environmental Division (EV) Stormwater Manager is responsible for coordinating identification and resolution as necessary if another PWD Division is not the lead.
Process The program shall clarify the roles for the different PWD Divisions and tenant commands. Public Works Department, Production Division is responsible to maintain and repair the sewage system throughout the installation. If there is a leak impacting the stormwater system, it is treated as a specific IDDE incident
Schedule Year 1: Document the program that describes procedures for PWD or a contractor effort to identify, remove and manage the source of an illicit discharge or connection. The program will include procedures for removing the illicit discharge, identifying how the incident occurred, clarify reporting requirements and implementing procedure to eliminate reoccurrence. Year 2: Develop forms to document each event and actions accomplished so that an organized record of the event is maintained. Forms may be developed for PWD and for tenant commands. Year 3 – Document the program Actions of the BMP occur for the life of the permit.

Table 3-3: BMP ID-3 Illicit Discharge Tracing and Removal
Reporting and Record Keeping Each illicit discharge or connection identified is documented by location, date of discovery and a known or suspected cause and a brief of resolution actions. The documentation is maintained with the SWMP records.

Table 3-4: BMP ID-4 Notifications to Other MS4 Operators
BMP Description NASCC will make notifications if there is an illicit discharge/connections event at NASCC impacting to or from the City of Corpus Christi, the adjacent MS4.
Responsibility The NASCC Public Works Department (PWD), Environmental Division (EV), Stormwater Manager is responsible for completing or coordinating the notification.
Process NASCC borders with surface water on the west, north and east sides. The south side of the installation borders the City of Corpus Christi. In accordance with the MS4 permit, when an illicit discharge or connection is observed impacting to or from NASCC to or from another MS4, the other operator must be notified within 48 hours. The PWD EV Stormwater Manager ensures notifications are made to the City of Corpus Christi and/or TCEQ via one of the contacts as follows: City of Corpus Christi Storm Water Hotline - 361-826-3800 City's -Physical Address: 2726 Holly Rd., Corpus Christi, Texas 78415 City's - Mailing Address: P.O. Box 9277, Corpus Christi, TX 78469-9277 City's Customer Call Center at 361 826-2489 for storm water concerns. TCEQ, Spill Reporting 800-832-8224 TCEQ Mailing Address: NRC Bldg, Ste 1200, 6300 Ocean Dr, Unit 5839, Corpus Christi TX 78412-5839 TCEQ Main Line 361-825-3100
Schedule Year-round for the term of the permit.
Reporting and Record Keeping Each illicit discharge or connection identified is documented by location, date of discovery and a known or suspected cause and a brief of resolution actions. The documentation of the event is maintained with the SWMP records.

Table 3-5: BMP ID-5 Prevent and Correct On Site Sewage Leaking
BMP Description Prevent and repair discharges from the installation sanitary sewer system that are found during inspections or as the result of calls-ins to the Public Works Department. Document procedures for the prevention and correction of sanitary sewage leaks. Identify the process and actions to maintain the system and minimize leaking incidents. This is an ongoing activity. During this permit period the program shall be documented.
Responsibility The Public Works Department (PWD) is responsible for maintaining and operating the sanitary sewage system. The PWD Waste Water Treatment Plant Branch (WWTP Br) manages the sewage system. The PWD, Environmental Division (EV), Stormwater Manager is responsible for identifying the existing program and obtaining or creating documentation. Once the documentation is complete, the PWD, Environmental Division (EV), Stormwater Manager is responsible to check annually that the documented process is current and if not, update as necessary.
Process Public Works Department, Production Division is responsible to maintain and repair the sewage system throughout the installation. If there is a leak impacting the stormwater system, it is treated as a specific IDDE incident
Schedule Year 1: Document the program that describes procedures for PWD to identify, and repair the source of a discharge or leak. The program will include procedures for securing the area, notifications and repair efforts, clarify reporting requirements and implementing procedure to eliminate reoccurrence. Year 2: Determine how these incidents are tracked (Maximo system) and determine how to report the incident for MS4 tracking purposes. The program shall clarify the roles for the different PWD Divisions. Year 3 – Document the program Actions of the BMP occur daily, monthly and annually for the life of the permit.
Reporting and Record Keeping Each leak identified is documented by location, date of discovery and a known or suspected cause and a brief of resolution actions. The documentation is collected

Table 3-5: BMP ID-5 Prevent and Correct On Site Sewage Leaking
annually and maintained with the SWMP records or available via PWD electronic system records (TBD once the process is documented).

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4.0 Construction Site Stormwater Runoff Control

Ref: Permit, Part III, Section B.3. Page 40-43

The objectives of the Construction Site Stormwater Runoff Control program are:

1. Establish an erosion and sediment control program for construction sites;
2. Provide review and approval for construction Stormwater Pollution Prevention Plans (SWP3) or erosion and sediment control plans
3. Document the existing inspection and oversight program for stormwater at construction sites.

4.1 Requirements for All Permittees

Ref: Permit, Part III, Section B.3(b). Page 40-43

The permit identifies seven requirements that must be addressed for the Construction Site Stormwater Runoff Control minimum control measure (MCM).

Requirement (1), regarding management and update of the content of the SWMP, is addressed within Section 1.0 of this SWMP.

Requirements (2,4,5), concerning erosion and sediment control at construction sites, construction plan review procedures, and construction site inspections are addressed in BMPs for this section.

Requirement (3) identifies prohibited discharges. These issues are addressed via several NASCC Plans and specifications in contracts. These issues are covered via the NASCC Pollution Prevention Program (P2), Spill Control and Countermeasures Plan (SPCC) and Hazardous Waste Management Plan (HWMP) and addressed via a BMP for this MCM.

Requirement (6) regarding public involvement is part of the informational brochure produced under MCM *Public Education and Outreach*.

Requirement (7) for MS4 staff training is addressed under the MCM *Pollution Prevention and Good Housekeeping*.

4.2 Best Management Practices (BMPs)

- BMP CS-1: Erosion and Sediment Control Program
- BMP CS-2: Prohibited Discharge Identification
- BMP CS-3: Construction Plan Review Procedures
- BMP CS-4: Construction Site Inspections

The BMPs for this MCM are tabulated on the following pages:

Table 4-1: BMP CS-1 Erosion and Sediment Control Program
BMP Description Document the erosion and sediment control requirements at construction sites on NASCC. This program clarifies erosion and sediment control management and expectations, the inspection process, and enforcement actions.
Responsibility The NASCC Public Works Department (PWD) Environmental Division (EV) Stormwater Manager is responsible for developing the erosion and sediment control policy with input from the Facilities Engineering and Acquisition Division (FEAD).
Process The written policy will be developed to complement and summarize existing inspections and construction site specification. The policy will clarify where existing standards are already documented (e.g. contract specs) and how they are enforced. The policy will clarify how Erosion and Sediment Control oversight is implemented. The Erosion and Sediment Control Program is applicable to all construction sites at NASCC to include in-house, NAVFAC hired contractors, installation contractor and tenant contractors. As necessary, a policy for each of the different managed type of construction projects shall be developed and incorporated into the program.
Schedule Year 2 –Erosion and Sediment Control policy for large construction sites. Year 3 – Erosion and Sediment Control policy for in-house construction (small/maintenance) and installation contractor sites. Year 4 - Erosion and Sediment Control policy for tenant contractors (if necessary and not covered by the other policies).
Reporting and Record Keeping Retain a copy of each policy with the SWMP records.

Table 4-2: BMP CS-2 Prohibited Discharge Identification
BMP Description Establish and distribute, as necessary, written documentation that addresses the prohibited discharges for construction sites as specified in the permit.
Responsibility The NASCC Public Works Department (PWD), Environmental Division (EV) Stormwater Manager, with input from the Facilities Engineering and Acquisition Division (FEAD), is responsible for developing documentation regarding prohibited discharges at construction sites from the MS4 permit perspective.
Process Documentation will be developed in the most effective way to present to construction sites. The written documentation may clarify if discharge prohibition is already addressed via existing plans and clarify the MS4 overlapping prohibition requirement. The documentation may be a narrative insert for construction specifications or a poster maintained on display at applicable areas. Alternatively, an informational brochure may be developed. The documentation will clarify points of contacts and that management of the prohibited wastes must be documented in the construction site Stormwater Management Plan (SWP3) or Waste Disposal Plan.
Schedule Year 4 – MS4 Prohibited Discharge Identification Documentation
Reporting and Record Keeping Retain a copy of the Prohibited Discharge Identification documentation with the SWMP records.

Table 4-3: BMP CS-3 Construction Plan Review Procedures
BMP Description Documentation of the existing Construction Plan Review Procedures for construction projects at NASCC. This is an ongoing activity. During this permit period the program shall be documented and standardized forms shall be established for tracking if necessary.
Responsibility The NASCC Public Works Department (PWD) Environmental Division (EV) Stormwater Manager will be responsible for developing the documentation with input from the Facilities Engineering and Acquisition Division (FEAD).
Process The documentation shall clarify existing procedures and create a tracking process to document review of stormwater specific issues as required by the permit such as: - Consideration of water quality impacts - Verification of meeting erosion and sediment control consideration or having a stormwater pollution prevention plan (SWP3) developed in accordance with the TPDES Construction General Permit (CGP) TXR 150000
Schedule Year 1 – Documentation of the Construction Plan Review Procedures.
Reporting and Record Keeping Retain a copy of the program documentation with the SWMP documentation. Document the review/approval of each contractor stormwater pollution prevention plan (SWP30 developed in accordance with the TPDES Construction General Permit (CGP). Maintain documentation of the review/approval with the SWMP records.

Table 4-4: BMP CS-4 Construction Site Inspections
BMP Description Document the stormwater inspection and compliance enforcement process for construction sites. Establish a written or electronic inspection report that specifically addresses stormwater concerns.
Responsibility The NASCC Public Works Department (PWD) Environmental Division (EV) Stormwater Manager is responsible for coordinating with the Facilities Engineering and Acquisition Division (FEAD) to document the stormwater inspection program for construction sites.
Process The PWD EV and FEAD perform construction site inspections. The primary responsibility for all onsite compliance as a construction site belongs to the FEAD. As necessary, EV will conduct a construction site inspection for a particular media. Documentation of each inspection will include inspection date, inspector, site conditions, reason for the inspection, follow up actions, and evaluation of compliance with existing site permit.
Schedule Year 3 - Documentation of the stormwater inspection program for construction sites.
Reporting and Record Keeping Document each stormwater inspection and the results.

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5.0 Post Construction Stormwater Management

Ref: Permit, Part III, Section B.4. Page 43

This control measure's full title" Post Construction Stormwater Management in New Development and Redevelopment directs municipalities to establish a procedure to control stormwater discharges from new development or redevelopment. A requirement is already in place for federal facilities.

NASCC follows requirements for federal facilities established by Section 438 of the Energy Independence and Security Act of 2007 (EISA) and the January 2010 Department of Defense (DOD) policy for implementing Section 438 of EISA.

The EPA website (http://water.epa.gov/polwaste/nps/section438.cfm) summarizes the reasoning and goal of EISA as follows:

"Stormwater runoff in urban areas is one of the leading sources of water pollution in the United States. Traditional urban areas typically include large areas of impervious surfaces such as roads, sidewalks and buildings. These impervious surfaces prevent rainwater from infiltrating into the ground, and as a result, stormwater runs off these urban areas at higher rates and volumes. These higher stormwater rates and volumes can cause increased flooding and erosion, and more pollution to surface waters, among other impacts.

Under Section 438 of the Energy Independence and Security Act of 2007 (EISA), federal agencies are required to reduce stormwater runoff from federal development and redevelopment projects to protect water resources. Federal agencies can comply using a variety of stormwater management practices often referred to as "green infrastructure" or "low impact development" practices, including reducing impervious surfaces and using vegetative practices, porous pavements, cisterns and green roofs."

The DOD Policy on Implementing Section 438 of the Energy Independence and Security Act (EISA) further clarifies the criteria and how to comply with the federal requirement. The DOD policy is applicable to facility construction with a footprint great than 5,000 gross square feet.

5.1 Requirements for All Permittees

Ref: Permit, Part III, Section B.4(b), Page 43-44

The permit identifies three requirements that must be addressed for the Post Construction Stormwater Management in New Development and Redevelopment minimum control measure (MCM)

Requirement (1), regarding management and update of the content of the SWMP, is addressed within Section 1.0 of this SWMP.

Requirement (2) requires documentation and records of enforcement actions. For issues addressed from internal oversight, e.g at construction sites on the installation, this issue is covered under the MCM *Construction Site Stormwater Runoff Control*. For outside agency actions e.g. EPA or TCEQ records are maintained at the PWD, EV office.

Requirement (3) regarding Long-Term Maintenance of Post Construction Stormwater Control Measures is addressed via a BMP.

5.2 Best Management Practices (BMPs)

- BMP PC-1 EISA Compliance
- BMP PC-2 Long Term Maintenance

The BMPs for this MCM are tabulated on the following page:

Table 5-1: BMP PC-1 EISA Compliance
BMP Description Compliance with Section 438 of the Energy Independence and Security Act of 2007 (EISA) and the January 2010 Department of Defense (DOD) policy for implementing Section 438 of EISA.
Responsibility The NASCC Public Works Department (PWD), Facilities Engineering and Acquisition Division (FEAD), and Naval Facilities Engineering Command South East (NAVFACSE) Capital Improvement (CI).
Process The FEAD and NAVFACSE CI are required to ensure that EISA requirements are addressed in all applicable DOD construction projects.
Schedule Ongoing for the term of the permit.
Reporting and Record Keeping A copy of the January 2010 Department of Defense (DOD) policy for implementing Section 438 of EISA is included with the SWMP records.

Table 5-2: BMP PC-2 Long Term Maintenance
BMP Description Tracking maintenance of structural stormwater control features.
Responsibility The NASCC Public Works Department (PWD) is responsible for all structural features of NASCC that support the installation operations, including the stormwater conveyance system.
Process Maintenance of stormwater structural features is accomplished by submitting trouble call or work requests. Besides PWD environmental inspections, tenant storm water team members and other Divisions of PWD perform field inspections. If a stormwater feature is deemed deficient in operation, it is identified for maintenance/repair with a priority rating and processed for funding. Deficiencies that impact military operations, security and environmental compliance, generally have higher priority for repair/maintenance. Stormwater structural projects may be listed under a facility ID for the stormwater system or an adjacent structure (road, building, etc.). The status of work orders and trouble calls can be checked via the facility ID. The PWD EV Stormwater Manager tracks SW maintenance requested from a compliance perspective to identify systemic areas of concern that have the potential to be a compliance risk or liability.
Schedule Daily, monthly and annually for the term of the permit.
Reporting and Record Keeping Document annually, compliance driven maintenance requests for structural stormwater control features, and the date of completion.

6.0 Pollution Prevention and Good Housekeeping

Ref: Permit, Part III, Section B.5(b), Page 44-50

6.1 Requirements for All Permittees

The permit identifies six requirements that must be addressed for the Pollution Prevention and Good Housekeeping for Municipal Operations minimum control measure (MCM).

Requirement (1) is for a *Permittee-owned Facilities and Control Inventory*: NASCC maintains a comprehensive facilities inventory managed by Public Works Department (PWD) via the Naval Facilities Asset Data Store (NFADS) system. NFADS assigns a unique identification code to every facility and structural asset at the installation. Additionally, the Georeadiness Center (GRC) maintains current mapping that complements the NFADS database.

Requirement (2) for *Training and Education* is addressed via a BMP for this MCM.

Requirement (3) addresses management for *Disposal of Waste Material.* All waste disposal removed from NASCC is accomplished in accordance with state and federal requirements.

Requirement (4) relates to *Contractor Requirements and Oversight*, which is managed via the Public Works Department (PWD), Facilities Engineering and Acquisition Division and discussed within the MCM Construction Site Stormwater Runoff Control. Contractor training is addressed via a BMP for this MCM.

Requirement (5) refers to Municipal Operation and Maintenance Activities and the assessment of permittee-owned operations. Public Works Department is responsible for all operation and maintenance of structures at NASCC. Large projects such as road work, pavement, repaving are accomplished by contract, and would be considered as a construction project and thus fall under the requirements as noted in MCM Construction Site Stormwater Runoff Control. Small maintenance projects such as filling in a pothole, minor concrete work, headwall repair, paint touch up are completed in-house. Pollutants of concern, include paints, metals, sediment, and petroleum products (fuel and oils). Management of hazardous materials and hazardous waste falls under the installation's Pollution Prevention (P2) program and Hazardous Waste Management Plan. Reduction and use of environmental friendly products is covered by the P2 program, Safety and Supply offices. The NASCC P2 program, and spill response program (POL products) both include training for staff that participate in activities that could pollute any environmental media (air, water, natural resources etc). Staff training is covered as a BMP for this MCM. Review and inspection of the maintenance actions performed in-house, P2 measures and verification of P2 activities in support of stormwater protection is covered as a BMP for this MCM.

Requirement (6) is for the oversight of BMPs that require *Structural Control Maintenance*. Maintenance of the stormwater conveyance system and related BMPs is covered under the Post Construction Stormwater Management MCM.

6.2 Best Management Practices (BMPs)

- GH-1 Staff Training
- GH-2 Contractor Pollution Prevention Education
- GH-3 Maintenance Activities Pollution Prevention
- GH-4 Routine Cleanup of Outside Areas

The BMPs for this MCM are tabulated on the following pages:

Table 6-1: BMP GH-1 Staff Training
BMP Description Ensure that all applicable employees are aware of the stormwater training requirements and the training options and that training is accomplished within required intervals.
Responsibility The Public Works Department (PWD), Environmental Division (EV), Stormwater Manager is responsible for providing, coordinating and informing all applicable employees of training opportunities.
Process The PWD EV Stormwater Manager informs all applicable personnel (FEAD, tenants, other PWD Divisions) of their stormwater training requirements. The Stormwater Manager is responsible for notifying personnel when there is a training option on or off site. The Stormwater Manager is responsible for organizing and providing stormwater training. This could be via an onsite hosted instructor, in-house training, off site organized event, or use of established training material (e.g. Excal CDs). Each applicable employee shall receive training at least once every three years.
Schedule Daily, monthly and annual for the term of the permit. Scheduling will depend on the option implemented and employee training requirements.
Reporting and Record Keeping Documentation for each training session includes the date of occurrence, number of participants and roster (if accessible), office represented for each participant, type and method of training. Training records are kept with the SWMP documentation or clarification of the location of training documentation is provided. Using both these methods accommodates tenants who conduct their own training and maintain their records electronically.

Table 6-2: BMP GH-2 Contractor Pollution Prevention Education
BMP Description Stormwater pollution prevention training is mandatory for contractors working at NASCC. The training, provided is available through an online module called *Environmental Compliance Assessment, Training, and Tracking System* (ECATTS). The training includes the following topics: good housekeeping practices, erosion and sediment control measures, illicit discharge, and post construction water run-off.
Responsibility The NASCC Public Works Department (PWD), Environmental Division (EV) and Facilities Engineering & Acquisition Division (FEAD) are responsible for informing contractors of the education requirement and verifying completion prior to the start of field work.
Process Contracting specifications for NASCC include language regarding the requirement to complete environmental compliance training via the ECATTS. The modules required are dependent on the type of contract work. Alternatively, a contractor may submit proof of equivalent training, but must ensure they are familiar with NASCC stormwater pollution prevention requirements. PWD EV considers a contractor to be current with ECATTS or other equivalent training as long as it was completed within the current permit cycle or within 5 years. The contractor submits proof of equivalent training to the FEAD, who provides it to PWD EV, Stormwater Manager. Public Works Department (PWD), Environmental Division (EV), Stormwater Manager maintains administrative rights for ECATTS so that training records can be pulled quarterly.
Schedule Daily, monthly and annually for the term of the permit.
Reporting and Record Keeping PWD EV, Stormwater Manager maintains training records from ECATTS or directly from the contractor with the SWMP documentation.

Table 6-3: BMP GH-3 Maintenance Activities Pollution Prevention
BMP Description Outdoor maintenance activities performed by the Public Works Department (PWD) such as minor road work, facility repair/maintenance, painting, landscaping, and utility maintenance could have potential stormwater pollutants at the worksite. These short term work sites have pollution prevention measures in place to protect stormwater. The pollution prevention measures shall be identified and evaluated. These actions shall be documented and verifiable.
Responsibility The NASCC Public Works Department (PWD), various divisions that conduct outdoor maintenance shall coordinate with the Public Works Department (PWD), Environmental Division (EV) to identify the applicable maintenance activities performed in-house, and the P2 measures in place. PWD EV shall determine an evaluation program for the P2 measures and documentation of the inspection of the P2 measures.
Process Public Works Department (PWD), Environmental Division (EV), Stormwater Manager shall obtain from PWD a listing of the in-house outdoor maintenance activities performed by PWD. PWD shall collaborate to document the P2 action in place per activity to protect stormwater runoff from pollution. The PWD EV Stormwater Manager shall evaluate the activities annually. A system to verify and document the adequacies and the effectiveness of the P2 measures shall be established and identified for this SWMP.
Schedule Year 3: Document the outdoor PWD maintenance activities and P2 actions to protect stormwater runoff from pollution. Year 4: Develop a trackable and verifiable inspection and tracking program to evaluate P2 equipment (if applicable) and actions implemented at outdoor maintenance operations that could impact stormwater. Year 5: Implement the tracking and evaluation of P2 equipment/actions program
Reporting and Record Keeping PWD EV Stormwater Manager maintains the program documentation and access to inspection records.

Table 6-4: BMP GH-4 Routine Cleanup of Outdoor Areas
BMP Description All tenants shall keep areas free of trash and debris prior to and after a storm (rain and/or high winds) event or monthly, whichever is more frequent, to ensure the stormwater inlets are protected per the requirements of the permit.
Responsibility All tenants shall be responsible for maintaining their outdoor spaces and ensuring that trash is disposed of properly, either in-house or by contractor. PWD EV shall determine an evaluation program for the P2 measures and documentation of the inspection of the P2 measures.
Process The PWD EV Stormwater Manager shall evaluate annually the activities. A system to verify and document the adequacies and the effectiveness of the P2 measures shall be established and identified for this SWMP.
Schedule Year 1: Meet with tenants and task them to keep outdoor areas free of trash. Year 2: Develop a trackable and verifiable inspection and tracking program to evaluate actions implemented at outdoor areas that could impact stormwater. Year 3: Implement the tracking and evaluation of P2 equipment/actions program
Reporting and Record Keeping PWD EV Stormwater Manager maintains the program documentation and access to inspection records.

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APPENDIX A
NOTICE OF INTENT (NOI) & TCEQ CORRESPONDENCE

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APPENDIX B
TCEQ TPDES GENERAL PERMIT NO. TXR040000

Texas Commission on Environmental Quality

P.O. Box 13087, Austin, Texas 78711-3087

GENERAL PERMIT TO DISCHARGE UNDER THE

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM

under provisions of
402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

This permit supersedes and replaces
TPDES General Permit No. TXR040000, issued August 13, 2007

Small Municipal Separate Storm Sewer Systems

located in the state of Texas

may discharge directly to surface water in the state

only according to requirements and conditions set forth in this general permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ or Commission), the laws of the State of Texas, and other orders of the the TCEQ. The issuance of this general permit does not grant to the permittee the right to use private or public property for conveyance of stormwater and certain non-stormwater discharges along the discharge route. This includes property belonging to but not limited to any individual, partnership, corporation or other entity. Neither does this general permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This general permit and the authorization contained herein shall expire at midnight, five years after the permit effective date.

EFFECTIVE DATE: DEC 13 2013

ISSUED DATE: DEC 13 2013

Bryan W. Shaw

For the Commission

TCEQ GENERAL PERMIT NUMBER TXR040000
RELATING TO DISCHARGES FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS

Table of Contents

Part I. Definitions

Arid Areas - Areas with an average annual rainfall of less than ten (10) inches.

Best Management Practices (BMPs) - Schedules of activities, prohibitions of practices, maintenance procedures, structural controls, local ordinances, and other management practices to prevent or reduce the discharge of pollutants. BMPs also include treatment requirements, operating procedures, and practices to control runoff, spills or leaks, waste disposal, or drainage from raw material storage areas.

Catch basins - Storm drain inlets and curb inlets to the storm drain system. Catch basins typically include a grate or curb inlet that may accumulate sediment, debris, and other pollutants.

Classified Segment - A water body that is listed and described in Appendix A or Appendix C of the Texas Surface Water Quality Standards, at 30 Texas Administrative Code (TAC) § 307.10.

Clean Water Act (CWA) - The Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972, Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et. seq.

Common Plan of Development or Sale - A construction activity that is completed in separate stages, separate phases, or in combination with other construction activities. A common plan of development or sale is identified by the documentation for the construction project that identifies the scope of the project, and may include plats, blueprints, marketing plans, contracts, building permits, a public notice or hearing, zoning requests, or other similar documentation and activities.

Construction Activity - Soil disturbance, including clearing, grading, and excavating; and not including routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the site (e.g., the routine grading of existing dirt roads, asphalt overlays of existing roads, the routine clearing of existing right-of-ways, and similar maintenance activities). Regulated construction activity is defined in terms of small and large construction activity.

> **Small Construction Activity** is construction activity that results in land disturbance of equal to or greater than one (1) acre and less than five (5) acres of land. Small construction activity also includes the disturbance of less than one (1) acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one (1) and less than five (5) acres of land.
>
> **Large Construction Activity** is construction activity that results in land disturbance of equal to or greater than five (5) acres of land. Large construction activity also includes the disturbance of less than five (5) acres of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than five (5) acres of land.

Construction Site Operator - The entity or entities associated with a small or large construction project that meet(s) either of the following two criteria:

(a) The entity or entities that have operational control over construction plans and specifications (including approval of revisions) to the extent necessary to meet the requirements and conditions of this general permit; or

(b) The entity or entities that have day-to-day operational control of those activities at a construction site that are necessary to ensure compliance with a stormwater pollution

prevention plan (SWP3) for the site or other permit conditions (for example they are authorized to direct workers at a site to carry out activities required by the SWP3 or comply with other permit conditions).

Control Measure - Any BMP or other method used to prevent or reduce the discharge of pollutants to water in the state.

Conveyance - Curbs, gutters, man-made channels and ditches, drains, pipes, and other constructed features designed or used for flood control or to otherwise transport stormwater runoff.

Discharge – When used without a qualifier, refers to the discharge of stormwater runoff or certain non-stormwater discharges as allowed under the authorization of this general permit.

Edwards Aquifer - As defined in 30 TAC §213.3 (relating to the Edwards Aquifer), that portion of an arcuate belt of porous, water-bearing, predominantly carbonate rocks known as the Edwards and Associated Limestones in the Balcones Fault Zone trending from west to east to northeast in Kinney, Uvalde, Medina, Bexar, Comal, Hays, Travis, and Williamson Counties; and composed of the Salmon Peak Limestone, McKnight Formation, West Nueces Formation, Devil's River Limestone, Person Formation, Kainer Formation, Edwards Formation, and Georgetown Formation. The permeable aquifer units generally overlie the less-permeable Glen Rose Formation to the south, overlie the less-permeable Comanche Peak and Walnut Formations north of the Colorado River, and underlie the less-permeable Del Rio Clay regionally.

Edwards Aquifer Recharge Zone - Generally, that area where the stratigraphic units constituting the Edwards Aquifer crop out, including the outcrops of other geologic formations in proximity to the Edwards Aquifer, where caves, sinkholes, faults, fractures, or other permeable features would create a potential for recharge of surface waters into the Edwards Aquifer. The recharge zone is identified as that area designated as such on official maps located in the offices of the TCEQ or the TCEQ website.

Final Stabilization - A construction site where any of the following conditions are met:

(a) All soil disturbing activities at the site have been completed and a uniform (for example, evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.

(b) For individual lots in a residential construction site by either:

(1) The homebuilder completing final stabilization as specified in condition (a) above; or

(2) The homebuilder establishing temporary stabilization for an individual lot prior to the time of transfer of the ownership of the home to the buyer and after informing the homeowner of the need for, and benefits of, final stabilization.

(c) For construction activities on land used for agricultural purposes (for example pipelines across crop or range land), final stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural use. Areas disturbed that were not previously used for agricultural activities, such as buffer strips immediately adjacent to a surface water and areas which are not being returned to their preconstruction agricultural use must meet the final stabilization conditions of condition (a) above.

(d) In arid, semi-arid, and drought-stricken areas only, all soil disturbing activities at the site have been completed and both of the following criteria have been met:

(1) Temporary erosion control measures (e.g., degradable rolled erosion control product) are selected, designed, and installed along with an appropriate seed base to provide erosion control for at least three years without active maintenance by the operator, and

(2) The temporary erosion control measures are selected, designed, and installed to achieve 70 percent vegetative coverage within three years.

General Permit - A permit issued to authorize the discharge of waste into or adjacent to water in the state for one or more categories of waste discharge within a geographical area of the state or the entire state as provided by Texas Water Code (TWC) §26.040.

Groundwater Infiltration - For the purposes of this permit, groundwater that enters a municipal separate storm sewer system (including sewer service connections and foundation drains) through such means as defective pipes, pipe joints, connections, or manholes.

High Priority Facilities - High priority facilities are facilities with a high potential to generate stormwater pollutants. These facilities must include, at a minimum, the MS4 operator's maintenance yards, hazardous waste facilities, fuel storage locations, and other facilities where chemicals or other materials have a high potential to be discharged in stormwater. Among the factors that must be considered when giving a facility a high priority ranking are: the amount of urban pollutants stored at the site, the identification of improperly stored materials, activities that must not be performed outside (for example, changing automotive fluids, vehicle washing), proximity to waterbodies, proximity to sensitive aquifer recharge features, poor housekeeping practices, and discharge of pollutant(s) of concern to impaired water(s).

Hyperchlorinated Water – Water resulting from hyperchlorination of waterlines or vessels, with a chlorine concentration greater than 10 milligrams per liter (mg/L).

Illicit Connection - Any man-made conveyance connecting an illicit discharge directly to a municipal separate storm sewer.

Illicit Discharge - Any discharge to a municipal separate storm sewer that is not entirely composed of stormwater, except discharges pursuant to this general permit or a separate authorization and discharges resulting from emergency fire fighting activities.

Impaired Water - A surface water body that is identified on the latest approved CWA §303(d) List as not meeting applicable state water quality standards. Impaired waters include waters with approved or established total maximum daily loads (TMDLs), and those where a TMDL has been proposed by TCEQ but has not yet been approved or established.

Indian Country - Defined in 18 USC § 1151 as: (a) All land within the limits of any Indian reservation under the jurisdiction of the United States (U.S.) Government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation; (b) All dependent Indian communities within the borders of the U.S. whether within the original or subsequently acquired territory thereof, and whether within or without the limits of a state; and (c) All Indian allotments, the Indian titles to which have not been extinguished, including rights-of-way running through the same. This definition includes all land held in trust for an Indian tribe.

Indicator Pollutant - An easily measured pollutant, that may or may not impact water quality that indicates the presence of other stormwater pollutants.

Industrial Activity - Any of the ten (10) categories of industrial activities included in the definition of "stormwater discharges associated with industrial activity" as defined in 40 Code of Federal Regulations (CFR) §122.26(b)(14)(i)-(ix) and (xi).

Maximum Extent Practicable (MEP) - The technology-based discharge standard for municipal separate storm sewer systems (MS4s) to reduce pollutants in stormwater discharges that was established by the CWA § 402(p). A discussion of MEP as it applies to small MS4s is found in 40 CFR § 122.34.

MS4 Operator - For the purpose of this permit, the public entity or the entity contracted by the public entity, responsible for management and operation of the small municipal separate storm sewer system that is subject to the terms of this general permit.

Municipal Separate Storm Sewer System (MS4) - A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

(a) Owned or operated by the U.S., a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law) having jurisdiction over the disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under the CWA §208 that discharges to surface water in the state;

(b) That is designed or used for collecting or conveying stormwater;

(c) That is not a combined sewer; and

(d) That is not part of a publicly owned treatment works (POTW) as defined in 40 CFR §122.2.

Non-traditional Small MS4 - A small MS4 that often cannot pass ordinances and may not have the enforcement authority like a traditional small MS4 would have to enforce the stormwater management program. Examples of non-traditional small MS4s include counties, transportation authorities (including the Texas Department of Transportation), municipal utility districts, drainage districts, military bases, prisons and universities.

Notice of Change (NOC) - A written notification from the permittee to the executive director providing changes to information that was previously provided to the agency in a notice of intent.

Notice of Intent (NOI) - A written submission to the executive director from an applicant requesting coverage under this general permit.

Notice of Termination (NOT) - A written submission to the executive director from a permittee authorized under a general permit requesting termination of coverage under this general permit.

Outfall - A point source at the point where a small MS4 discharges to waters of the U.S. and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels, or other conveyances that connect segments of the same stream or other waters of the U.S. and are used to convey waters of the U.S. For the purpose of this permit, sheet flow leaving a linear transportation system without channelization is not considered an outfall. Point sources such as curb cuts; traffic or right-or-way barriers with drainage slots that drain into open culverts, open swales or an adjacent property, or otherwise not actually discharging into waters of the U.S. are not considered an outfall.

Permittee - The MS4 operator authorized under this general permit.

Point Source - (from 40 CFR § 122.22) any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff.

Pollutant(s) of Concern – For the purpose of this permit, includes biochemical oxygen demand (BOD), sediment or a parameter that addresses sediment (such as total suspended solids (TSS), turbidity or siltation), pathogens, oil and grease, and any pollutant that has been identified as a cause of impairment of any water body that will receive a discharge from an MS4. (Definition from 40 CFR § 122.32(e)(3)).

Redevelopment - Alterations of a property that changed the "footprint" of a site or building in such a way that there is a disturbance of equal to or greater than one (1) acre of land. This term does not include such activities as exterior remodeling, routine maintenance activities, and linear utility installation.

Semiarid Areas - Areas with an average annual rainfall of at least ten (10) inches, but less than 20 inches.

Small Municipal Separate Storm Sewer System (MS4) – A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains):

(a) Owned or operated by the U.S., a state, city, town, borough, county, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under CWA § 208;

(b) Designed or used for collecting or conveying stormwater;

(c) Which is not a combined sewer;

(d) Which is not part of a publicly owned treatment works (POTW) as defined in 40 CFR § 122.2; and

(e) Which was not previously regulated under a National Pollutant Discharge Elimination System (NPDES) or a Texas Pollutant Discharge Elimination System (TPDES) individual permit as a medium or large municipal separate storm sewer system, as defined in 40 CFR §§122.26(b)(4) and (b)(7).

This term includes systems similar to separate storm sewer systems at military bases, large hospitals or prison complexes, and highways and other thoroughfares. This term does not include separate storm sewers in very discrete areas, such as individual buildings. For the purpose of this permit, a very discrete system also includes storm drains associated with certain municipal offices and education facilities serving a nonresidential population, where those storm drains do not function as a system, and where the buildings are not physically interconnected to a small MS4 that is also operated by that public entity.

Stormwater and Stormwater Runoff - Rainfall runoff, snow melt runoff, and surface runoff and drainage.

Stormwater Associated with Construction Activity - Stormwater runoff from an area where there is either a large construction or a small construction activity.

Stormwater Management Program (SWMP) - A comprehensive program to manage the quality of discharges from the municipal separate storm sewer system.

Structural Control (or Practice) - A pollution prevention practice that requires the construction of a device, or the use of a device, to capture or prevent pollution in stormwater runoff. Structural controls and practices may include but are not limited to: wet ponds, bioretention, infiltration basins, stormwater wetlands, silt fences, earthen dikes, drainage swales, vegetative lined ditches, vegetative filter strips, sediment traps, check dams, subsurface drains, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins.

Surface Water in the State - Lakes, bays, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, wetlands, marshes, inlets, canals, the Gulf of Mexico inside the territorial limits of the state (from the mean high water mark (MHWM) out 10.36 miles into the Gulf), and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, navigable or nonnavigable, and including the beds and banks of all water courses and bodies of surface water, that are wholly or partially inside or bordering the state or subject to the jurisdiction of the state; except that waters in treatment systems which are authorized by state or federal law, regulation, or permit, and which are created for the purpose of waste treatment are not considered to be water in the state.

Total Maximum Daily Load (TMDL) - The total amount of a substance that a water body can assimilate and still meet the Texas Surface Water Quality Standards.

Traditional Small MS4 - A small MS4 that can pass ordinances and have the enforcement authority to enforce the stormwater management program. An example of traditional MS4s includes cities.

Urbanized Area (UA) - An area of high population density that may include multiple small MS4s as defined and used by the U.S. Census Bureau in the 2000 and the 2010 Decennial census.

Waters of the United States - (According to 40 CFR § 122.2) Waters of the United States or waters of the U.S. means:

(a) All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;

(b) All interstate waters, including interstate wetlands;

(c) All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds that the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:

(1) Which are or could be used by interstate or foreign travelers for recreational or other purposes;

(2) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or

(3) Which are used or could be used for industrial purposes by industries in interstate commerce;

(d) All impoundments of waters otherwise defined as waters of the United States under this definition;

(e) Tributaries of waters identified in paragraphs (a) through (d) of this definition;

(f) The territorial sea; and

(g) Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a) through (f) of this definition.

Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the CWA (other than cooling ponds as defined in 40 CFR § 423.11(m) which also meet the criteria of this definition) are not waters of the U.S. This exclusion applies only to manmade bodies of water which neither were originally created in waters of the U.S. (such as disposal area in wetlands) nor resulted from the impoundment of waters of the U.S. Waters of the U.S. do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the CWA, the final authority regarding the CWA jurisdiction remains with the EPA.

Part II. Permit Applicability and Coverage

This general permit provides authorization for stormwater and certain non-stormwater discharges from small municipal separate storm sewer systems (MS4) to surface water in the state. The general permit contains requirements applicable to all small MS4s that are eligible for coverage under this general permit.

Section A. Small MS4s Eligible for Authorization under this General Permit

Discharges from a small MS4 must be authorized if any of the following criteria are met and may be authorized under this general permit if coverage is not otherwise prohibited.

1. Small MS4s Located in an Urbanized Area

Operators of small MS4s that are fully or partially located within an urbanized area (UA), as determined by the 2000 or 2010 Decennial Census by the U.S. Bureau of Census, must obtain authorization for the discharge of stormwater runoff and are eligible for coverage under this general permit unless otherwise prohibited.

2. Designated Small MS4s

A small MS4 that is outside an urbanized area that is *designated* by TCEQ based on evaluation criteria as required by 40 CFR § 122.32(a)(2) or 40 CFR § 122.26(a)(1)(v) and adopted by reference in Title 30, TAC § 281.25, is eligible for coverage under this general permit. Following designation, operators of small MS4s must obtain authorization under this general permit or apply for coverage under an individual TPDES stormwater permit within 180 days of notification of their designation.

3. Operators of Previously Permitted Small MS4s

Operators of small MS4s that were covered under the previous TPDES general permit for small MS4s (TXR040000, Issued and Effective on August 13, 2007) must reapply for permit coverage, or must obtain a waiver if applicable (see Part II.B, related to Obtaining a Waiver.)

4. Regulated Portion of Small MS4

The portion of the small MS4 that is required to meet the conditions of this general permit are those portions that are located within the UA as defined and used by the U.S. Census Bureau in the 2000 or 2010 census, as well as any portion of the small MS4 that is designated by TCEQ.

For the purpose of this permit, the regulated portion of a small MS4 for a transportation entity is the land owned by the permittee within the UA which functions as, or is integral to a transportation system with drainage conveyance. Non-contiguous property that does not drain into the transportation drainage system is not subject to this general permit.

5. Categories of Regulated Small MS4s

This permit defines MS4 operators by the following categories, or levels, based on the population served within the 2010 UA. The level of a small MS4 may change during the permit term based on the MS4 operator acquiring or giving up regulated area, such as by annexing land or if land is annexed away. However, the level of a small MS4 will not change during the permit term based on population fluctuation.

(a) Level 1: Operators of traditional small MS4s that serve a population of less than 10,000 within a UA;

(b) Level 2: Operators of traditional small MS4s that serve a population of at least 10,000 but less than 40,000 within a UA. This category also includes all non-traditional small MS4s such as counties, drainage districts, transportation entities, military bases, universities, colleges, correctional institutions, municipal utility districts and other special districts regardless of population served within the UA, unless the non-traditional MS4 can demonstrate that it meets the criteria for a waiver from permit coverage based on the population served;

(c) Level 3: Operators of traditional small MS4s that serve a population of at least 40,000 but less than 100,000 within a UA;

(d) Level 4: Operators of traditional small MS4s that serve a population of 100,000 or more within a UA.

For the purpose of this section “serve a population” means the residential population within the regulated portion of the small MS4 based on the 2010 census, except for non-traditional small MS4s listed in (b) above.

Section B. Available Waivers from Coverage

The TCEQ may waive permitting requirements for small regulated MS4 operators if the criteria are met for Waiver Option 1 or 2 below. To obtain Waiver Option 1, the MS4 operator must submit the request on a waiver form provided by the executive director. To obtain Waiver Option 2, the MS4 operator must contact the executive director and coordinate the activities required to meet the waiver conditions. A provisional waiver from permitting requirements begins 30 days after an administratively complete waiver form is postmarked for delivery to the TCEQ. Following review of the waiver form, the executive director may:(1) Determine that the waiver form is technically complete and approve the waiver by providing a notification and a waiver number; (2) Determine that the waiver form is incomplete and deny the waiver until a completed waiver form is submitted; or (3) Deny the waiver and require that permit coverage be obtained.

If the conditions of a waiver are not met by the MS4 operator, then the MS4 operator must submit an application for coverage under this general permit or a separate TPDES permit application.

At any time the TCEQ may require a previously waived MS4 operator to comply with this general permit or another TPDES permit if circumstances change so that the conditions of the waiver are no longer met. Changed circumstances can also allow a regulated MS4 operator to request a waiver at any time.

At any time the TCEQ can request to review any waivers granted to MS4 operators to determine whether any of the information required for granting the waiver has changed. At a minimum TCEQ will review all waivers when MS4 operators submit their renewal waiver applications.

For the purpose of obtaining a waiver, the population served refers to the residential population for traditional small MS4s and for certain non-traditional small MS4s with a residential population (such as counties and municipal utility districts). For other non-traditional small MS4s, the population served refers to the number of people using the small MS4 on an average operational day.

1. Waiver Option 1:

The small MS4 serves a population of less than 1,000 within a UA and meets the following criteria:

(a) The small MS4 is not contributing substantially to the pollutant loadings of a physically interconnected MS4 that is regulated by the NPDES / TPDES stormwater program (40 CFR § 122.32(d)); and

(b) If the small MS4 discharges any pollutant(s) that have been identified as a cause of impairment of any water body to which the small MS4 discharges, stormwater controls are not needed based on wasteload allocations that are part of an EPA approved or established TMDL that addresses the pollutant(s) of concern.

2. Waiver Option 2:

The small MS4 serves a population under 10,000 within a UA and meets the following criteria:

(a) The TCEQ has evaluated all waters of the U.S., including small streams, tributaries, lakes, and ponds, that receive a discharge from the small MS4;

(b) For all such waters, the TCEQ has determined that stormwater controls are not needed based on wasteload allocations that are part of an approved or established TMDL that addresses the pollutant(s) of concern or, if a TMDL has not been developed or approved, an equivalent analysis that determines sources and allocations for the pollutant(s) of concern; and

(c) The TCEQ has determined that future discharges from the small MS4 do not have the potential to exceed Texas surface water quality standards, including impairment of designated uses, or other significant water quality impacts, including habitat and biological impacts.

(d) For the purpose of this paragraph (2.), the pollutant(s) of concern include biochemical oxygen demand (BOD), sediment or a parameter that addresses sediment (such as total

suspended solids, turbidity or siltation), pathogens, oil and grease, and any pollutant that has been identified as a cause of impairment of any water body that will receive a discharge from the small MS4.

Section C. Allowable Non-Stormwater Discharges

The following non-stormwater sources may be discharged from the small MS4 and are not required to be addressed in the small MS4's Illicit Discharge and Detection or other minimum control measures, unless they are determined by the permittee or the TCEQ to be significant contributors of pollutants to the small MS4, or they are otherwise prohibited by the MS4 operator:

1. Water line flushing (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);
2. Runoff or return flow from landscape irrigation, lawn irrigation, and other irrigation utilizing potable water, groundwater, or surface water sources;
3. Discharges from potable water sources that do not violate Texas Surface Water Quality Standards;
4. Diverted stream flows;
5. Rising ground waters and springs;
6. Uncontaminated ground water infiltration;
7. Uncontaminated pumped ground water;
8. Foundation and footing drains;
9. Air conditioning condensation;
10. Water from crawl space pumps;
11. Individual residential vehicle washing;
12. Flows from wetlands and riparian habitats;
13. Dechlorinated swimming pool discharges that do not violate Texas Surface Water Quality Standards;
14. Street wash water excluding street sweeper waste water;
15. Discharges or flows from emergency fire fighting activities (fire fighting activities do not include washing of trucks, run-off water from training activities, test water from fire suppression systems, and similar activities);
16. Other allowable non-stormwater discharges listed in 40 CFR § 122.26(d)(2)(iv)(B)(1);
17. Non-stormwater discharges that are specifically listed in the TPDES Multi Sector General Permit (MSGP) TXR050000 or the TPDES Construction General Permit (CGP) TXR150000;
18. Discharges that are authorized by a TPDES or NPDES permit or that are not required to be permitted; and
19. Other similar occasional incidental non-stormwater discharges such as spray park water, unless the TCEQ develops permits or regulations addressing these discharges.

Section D. Limitations on Permit Coverage

1. Discharges Authorized by Another TPDES Permit

Discharges authorized by an individual or other general TPDES permit may be authorized under this TPDES general permit only if the following conditions are met:

(a) The discharges meet the applicability and eligibility requirements for coverage under this general permit;

(b) A previous application or permit for the discharges has not been denied, terminated, or revoked by the executive director as a result of enforcement or water quality related concerns. The executive director may provide a waiver to this provision based on new circumstances at the regulated small MS4; and

(c) The executive director has not determined that continued coverage under an individual permit is required based on consideration of an approved total maximum daily loading (TMDL) model and implementation plan, anti-backsliding policy, history of substantive non-compliance or other 30 TAC Chapter 205 considerations and requirements, or other site-specific considerations.

2. Discharges of Stormwater Mixed with Non-Stormwater

Stormwater discharges that combine with sources of non-stormwater are not eligible for coverage by this general permit, unless either the non-stormwater source is described in Part II.C of this general permit or the non-stormwater source is authorized under a separate TPDES permit.

3. Compliance with Water Quality Standards

Discharges to surface water in the state that would cause, has the reasonable potential to cause, or contribute to a violation of water quality standards or that would fail to protect and maintain existing designated uses are not eligible for coverage under this general permit except as described in Part II.D.4 below. The executive director may require an application for an individual permit or alternative general permit to authorize discharges to surface water in the state if the executive director determines that an activity will cause has the reasonable potential to cause, or contribute to, a violation of water quality standards or is found to cause, have the reasonable potential to cause, or contribute to the impairment of a designated use of surface water in the state. The executive director may also require an application for an individual permit based on factors described in Part II.F.2.

4. Impaired Water Bodies and Total Maximum Daily Load (TMDL) Requirements

Discharges of the pollutant(s) of concern to impaired water bodies for which there is a TCEQ and EPA approved total maximum daily load (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, as not meeting Texas Surface Water Quality Standards.

The permittee shall control the discharges of pollutant(s) of concern to impaired waters and waters with approved TMDLs as provided in sections (a) and (b) below, and shall assess the progress in controlling those pollutants.

(a) Discharges to Water Quality Impaired Water Bodies with an Approved TMDL

If the small MS4 discharges to an impaired water body with an approved TMDL, where stormwater has the potential to cause or contribute to the impairment, the permittee shall include in the SWMP controls targeting the pollutant(s) of concern along with any additional or modified controls required in the TMDL and this section.

The SWMP and required annual reports must include information on implementing any targeted controls required to reduce the pollutant(s) of concern as described below:

(1) Targeted Controls

The SWMP must include a detailed description of all targeted controls to be implemented, such as identifying areas of focused effort or implementing additional Best Management Practices (BMPs) to reduce the pollutant(s) of concern in the impaired waters.

(2) Measurable Goals

For each targeted control, the SWMP must include a measurable goal and an implementation schedule describing BMPs to be implemented during each year of the permit term.

(3) Identification of Benchmarks

The SWMP must identify a benchmark for the pollutant(s) of concern. Benchmarks are designed to assist in determining if the BMPs established are effective in addressing the pollutant(s) of concern in stormwater discharge(s) from the MS4 to the maximum extent practicable (MEP). The BMPs addressing the pollutant of concern must be re-evaluated on an annual basis for progress towards the benchmarks and modified as necessary within an adaptive management framework. These benchmarks are not numeric effluent limitations or permit conditions but intended to be guidelines for evaluating progress towards reducing pollutant discharges consistent with the benchmarks. The exceedance of a benchmark is not a permit violation and does not in itself indicate a violation of instream water quality standards.

The benchmark must be determined based on one of the following options:

a. If the MS4 is subject to a TMDL that identifies a Waste Load Allocation(s) (WLA) for permitted MS4 stormwater sources, then the SWMP may identify it as the benchmark. Where an aggregate allocation is used as a benchmark, all affected MS4 operators are jointly responsible for progress in meeting the benchmark and shall (jointly or individually) develop a monitoring/assessment plan as required in Part II.D.4(a)(6).

b. Alternatively, if multiple small MS4s are discharging into the same impaired water body with an approved TMDL, with an aggregate WLA for all permitted stormwater MS4s, then the MS4s may combine or share efforts to determine an alternative sub-benchmark for the pollutant(s) of concern (e.g., bacteria) for their respective MS4. The SWMP must clearly define this alternative approach and must describe how the sub-benchmark would cumulatively support the aggregate WLA. Where an aggregate benchmark has been broken into sub-benchmarks for individual MS4s, each permittee is only responsible for progress in meeting its sub-benchmark.

(4) Annual Report

The annual report must include an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark.

(5) Impairment for Bacteria

If the pollutant of concern is bacteria, the permittee shall include focused BMPs addressing the below areas, as applicable, in the SWMP and implement as appropriate. If a TMDL Implementation Plan (I-Plan) is available, the permittee may refer to the I-Plan for appropriate BMPs. The SWMP and annual report must include the selected BMPs. Permitees may not exclude BMPs associated with the minimum control measures required under 40 CFR §122.34 from their list of proposed BMPs. Proposed BMPs will be reviewed by the executive director during the NOI and SWMP review and approval process.

The BMPs shall, as appropriate, address the following:

a. Sanitary Sewer Systems

(i) Make improvements to sanitary sewers to reduce overflows;

(ii) Address lift station inadequacies;

(iii) Improve reporting of overflows; and

(iv) Strengthen sanitary sewer use requirements to reduce blockage from fats, oils, and grease.

b. On-site Sewage Facilities (for entities with appropriate jurisdiction)

(i) Identify and address failing systems; and

(ii) Address inadequate maintenance of On-Site Sewage Facilities (OSSFs).

c. Illicit Discharges and Dumping

Place additional effort to reduce waste sources of bacteria; for example, from septic systems, grease traps, and grit traps.

d. Animal Sources

Expand existing management programs to identify and target animal sources such as zoos, pet waste, and horse stables.

e. Residential Education

Increase focus to educate residents on:

(i) Bacteria discharging from a residential site either during runoff events or directly;

(ii) Fats, oils, and grease clogging sanitary sewer lines and resulting overflows;

(iii) Decorative ponds; and

(iv) Pet waste.

(6) Monitoring or Assessment of Progress

The permittee shall monitor or assess progress in achieving benchmarks and determine the effectiveness of BMPs, and shall include documentation of this monitoring or assessment in the SWMP and annual reports. In addition, the SWMP must include methods to be used.

a. The permittee may use either of the following methods to evaluate progress towards the benchmark and improvements in water quality as follows:

(i) Evaluating Program Implementation Measures

The permittee may evaluate and report progress towards the benchmark by describing the activities and BMPs implemented, by identifying the appropriateness of the identified BMPs, and by evaluating the success of implementing the measurable goals.

The permittee may assess progress by using program implementation indicators such as: (1) number of sources identified or eliminated; (2) decrease in number of illegal dumping; (3) increase in illegal dumping reporting; (4) number of educational opportunities conducted; (5) reductions in sanitary sewer flows (SSOs); or, (6) increase in illegal discharge detection through dry screening, etc.; or

(ii) Assessing Improvements in Water Quality

The permittee may assess improvements in water quality by using available data for segment and assessment units of water bodies from other reliable sources, or by proposing and justifying a different approach such as collecting additional instream or outfall monitoring data, etc. Data may be acquired from TCEQ, local river authorities, partnerships, and/or other local efforts as appropriate.

b. Progress towards achieving the benchmark shall be reported in the annual report. Annual reports shall report the benchmark and the year(s) during the permit term that the MS4 conducted additional sampling or other assessment activities.

(7) Observing no Progress Towards the Benchmark

If, by the end of the third year from the effective date of the permit, the permittee observes no progress toward the benchmark either from program implementation or water quality assessments as described in Part II.D.4(a)(6), the permittee shall identify alternative focused BMPs that address new or increased efforts towards the benchmark or, as appropriate, shall develop a new approach to identify the most significant sources of the pollutant(s) of concern and shall develop alternative focused BMPs for those (this may also include information that identifies issues beyond the MS4's control). These revised BMPs must be included in the SWMP and subsequent annual reports.

Where the permittee originally used a benchmark based on an aggregated WLA, the permittee may combine or share efforts with other MS4s discharging to the same watershed to determine an alternative sub-benchmark for the pollutant(s) of concern for their respective MS4s, as described in Part II.D.4(a)(3)(b) above. Permittees must document, in their SWMP for the next permit term, the proposed schedule for the development and subsequent adoption of alternative sub benchmark for the pollutant(s) of concern for their respective MS4s and associated assessment of progress in meeting those individual benchmarks.

(b) Discharges Directly to Water Quality Impaired Water Bodies without an Approved TMDL

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:

(1) Discharging a Pollutant of Concern

a. Within the first year following the permit effective date, the permittee shall determine whether the small MS4 may be a source of the pollutant(s) of concern by referring to the CWA §303(d) list and then determining if discharges from the MS4 would be likely to contain the pollutant(s) of concern at levels of concern.

b. If the permittee determines that the small MS4 may discharge the pollutant(s) of concern to an impaired water body without an approved TMDL, the permittee shall, no later than two years following the permit effective date, ensure that the SWMP includes focused BMPs, along with corresponding measurable goals, that the permittee will implement, to reduce, the discharge of pollutant(s) of concern that contribute to the impairment of the water body.

c. In addition, no later than three years following the permit effective date, the permittee shall submit an NOC to amend the SWMP to include any additional BMPs to address the pollutant(s) of concern.

(2) Impairment of Bacteria

Where the impairment is for bacteria, the permittee shall identify potential significant sources and develop and implement focused BMPs for those sources. The permittee may implement the BMPs listed in Part II.D.4(a)(5) or proposed alternative BMPs as appropriate.

(3) The annual report must include information on compliance with this section, including results of any sampling conducted by the permittee.

5. Discharges to the Edwards Aquifer Recharge Zone

Discharges of stormwater from regulated small MS4s, and other non-stormwater discharges, are not authorized by this general permit where those discharges are prohibited by 30 TAC Chapter 213 (Edwards Aquifer Rule). New discharges located within the Edwards Aquifer Recharge Zone, or within that area upstream from the recharge zone and defined as the Contributing Zone, must meet all applicable requirements of, and operate according to, 30 TAC Chapter 213 (Edwards Aquifer Rule) in addition to the provisions and requirements of this general permit.

For existing discharges, the requirements of the agency-approved Water Pollution Abatement Plan (WPAP) under the Edwards Aquifer Rule are in addition to the requirements of this general permit. BMPs and maintenance schedules for structural stormwater controls, for example, may be required as a provision of the rule. All applicable requirements of the Edwards Aquifer Rule for reductions of suspended solids in stormwater runoff are in addition to the effluent limitation requirements found in Part VI.D. of this general permit.

The permittee's agency-approved WPAPs that are required by the Edwards Aquifer Rule must be referenced in the SWMP. Additional agency-approved WPAPs received after the SWMP submittal must be recorded in the annual report for each respective permit year. For discharges originating from the small MS4 permitted area, and located on or within ten stream miles upstream of the Edwards Aquifer recharge zone, applicants must also submit a copy of the MS4 NOI to the appropriate TCEQ regional office with each WPAP application submitted to TCEQ on or after August 13, 2012.

Counties: Comal, Bexar, Medina, Uvalde, and Kinney

Contact:

TCEQ, Water Program Manager
San Antonio Regional Office
14250 Judson Road
San Antonio, Texas 78233-4480
(210) 490-3096

Counties: Williamson, Travis, and Hays

Contact:

TCEQ, Water Program Manager
Austin Regional Office
12100 Park 35 Circle, Bldg. A, Rm 179
Austin, Texas 78753
(512) 339-2929

6. Discharges to Specific Watersheds and Water Quality Areas

Discharges of stormwater from regulated small MS4s and other non-stormwater discharges are not authorized by this general permit where prohibited by 30 TAC Chapter 311 (relating to Watershed Protection) for water quality areas and watersheds.

7. Protection of Streams and Watersheds by Home Rule Municipalities

This general permit does not limit the authority of a home-rule municipality provided by § 401.002 of the Texas Local Government Code.

8. Indian Country Lands

Stormwater runoff from small MS4s that occur on Indian Country lands are not under the authority of the TCEQ and are not eligible for coverage under this general permit. If discharges of stormwater require authorization under federal NPDES regulations, authority for these discharges must be obtained from the U.S. EPA.

9. Endangered Species Act

Discharges that would adversely affect a listed endangered or threatened species or its critical habitat are not authorized by this permit. Federal requirements related to endangered species apply to all TPDES permitted discharges, and site-specific controls may be required to ensure that protection of endangered or threatened species is achieved. If a permittee has concerns over potential impacts to listed species, the permittee shall contact TCEQ for additional information prior to submittal of the NOI and SWMP. If adverse impact is determined after submittal of the NOI and SWMP or after permit issuance, the permittee shall contact TCEQ immediately to determine corrective action and potential modification to the MS4's permit.

10. Other

Nothing in Part II of the general permit is intended to negate any person's ability to assert the force majeure (act of God, war, strike, riot, or other catastrophe) defenses found in 30 TAC § 70.7.

This permit does not transfer liability for the act of discharging without, or in violation of, a NPDES or a TPDES permit from the operator of the discharge to the permittee(s).

Section E. Obtaining Authorization

1. Application for Coverage

When submitting a notice of intent (NOI) and SWMP, for coverage under this general permit, as described in Parts II.E.3., II.E.4, and Part III, the applicant must follow the public notice and availability requirements found in Part II.E.12 of this general permit.

Applicants seeking authorization to discharge under this general permit must submit a completed NOI on a form approved by the executive director, and a SWMP as described in Part III. The NOI and SWMP must be submitted to the TCEQ Water Quality Division, at the address specified on the form. Following review of the NOI and SWMP, the executive director may determine that: 1) The submission is complete and confirm coverage by providing a notification and an authorization number, 2) The NOI or SWMP are incomplete and deny coverage and require that a new complete NOI and SWMP be submitted, 3) Approve the NOI and SWMP with revisions and provide a written description of the required revisions along with any compliance schedule(s), or 4) Deny coverage and provide a deadline by which the MS4 operator must submit an application for an individual permit. Discharge authorization begins when the applicant is notified by TCEQ that the NOI and SWMP have been administratively and technically reviewed and the applicant has followed the public participation provisions in Part II.E.12. Denial of coverage under this general permit is subject to the requirements of 30 TAC § 205.4(c). Application deadlines are as follows:

(a) Small MS4s Located in a 2010 Urbanized Area (UA) (Newly regulated Small MS4s)

Operators of small MS4s described in Part II.A.1 that were not previously regulated under the TPDES General Permit TXR040000, shall submit an NOI and SWMP within 180 days following the effective date of this general permit.

(b) Small MS4s Located in a 2000 UA (Previously Regulated Small MS4s)

Operators of small MS4s described in Part II.A.1 that were required to obtain authorization under the previous TPDES General Permit TXR040000 based on the 2000 UA maps shall submit an NOI and revised SWMP within 180 days following the effective date of this general permit.

(c) Designated Small MS4s

Following designation, operators of small MS4s described in Part II.A.2 shall submit an NOI and SWMP, or apply for coverage under an individual TPDES stormwater permit, within 180 days of being notified in writing by the TCEQ of the need to obtain permit coverage.

(d) Individual Permit Alternative

If an operator of a small MS4 described in Part II.A.1. of this general permit elects to apply for an individual permit, the application must be submitted within 90 days following the effective date of this general permit.

2. Late Submission of the NOI and SWMP

Operators are not prohibited from submitting an NOI and SWMP after the deadlines provided. If a late NOI and SWMP are submitted, then this general permit provides authorization only for discharges that occur after permit coverage is obtained. The TCEQ reserves the right to take appropriate enforcement actions for any unpermitted discharges.

3. Stormwater Management Program (SWMP)

A SWMP must be developed and submitted with the NOI for eligible discharges that will reach waters of the U.S., including discharges from the regulated small MS4 to other MS4s or to privately-owned separate storm sewer systems that subsequently drain to waters of the U.S., according to the requirements of Part III of this general permit. The SWMP must include, as appropriate, the months and years in which the permittee will undertake required actions, including interim milestones and the frequency of the action throughout the permit term.

New elements in the program must be completely implemented within five years of the effective date of this general permit, or within five years of being designated for those small MS4s which are designated following permit issuance. Previously regulated MS4s shall assess existing program elements set forth in the previous permit, modify as necessary, and develop and implement new elements, as necessary, to continue reducing the discharge of pollutants from the MS4 to the MEP.

Changes may be made to the SWMP during the permit term. The TCEQ may notify the permittee of the need to modify the SWMP to be consistent with the general permit, in which case the permittee will have 90 days to finalize such changes to the SWMP.

Changes that are made to the SWMP before the NOI is approved by the TCEQ must be submitted in a letter providing supplemental information to the NOI. Changes to the SWMP that are made after TCEQ approval of the NOI and SWMP may be made following submittal of a notice of change (NOC) and receipt of written approval of the NOC from the TCEQ, except as follows:

(a) The following changes may be implemented without submitting an NOC form. The changes may be made immediately following revision of the SWMP, and must be included in the annual report:

(1) Adding components, controls, or requirements to the SWMP; or replacing a BMP with an equivalent BMP. An equivalent BMP is one that is intended to address the same concern as the original BMP and is substantially similar in nature to the original BMP;

(2) Nonsubstantive changes, including:

a. A change in personnel, or a reorganization of departments responsible for implementing the SWMP;

b. Minor clarifications to the existing BMPs;

c. Correction of typographical errors;

d. Other similar administrative or nonsubstantive comments.

(3) Adding or subtracting area(s) during the permit term, such as by annexing land or if land is de-annexed.

(b) The permittee may replace a less effective or infeasible BMP specifically identified in the SWMP with an alternative BMP, (for example, replacing a structural BMP with a non-structural BMP). Such a change may be implemented within 60 days following submittal of an NOC form, unless the NOC is denied in writing by TCEQ. Such requests must include the following:

(1) An explanation of why the BMP was eliminated;

(2) An explanation of the effectiveness of the replacement BMP; and

(3) An explanation of how the replacement BMP is expected to achieve the goals of the previous BMP.

(c) All other changes must be submitted on an NOC form and may only be implemented following written approval by TCEQ (See Part II.E.5).

4. Contents of the NOI

The NOI must contain the following minimum information:

(a) MS4 Operator Information

(1) The name, mailing address, electronic mail (email) address, telephone number, and facsimile (fax) number of the MS4 operator; and

(2) The legal status of the MS4 operator (for example, federal government, state government, county government, city government, or other government).

(b) Site Information

(1) The name, physical location description, and latitude and longitude of the approximate center of the regulated portion of the small MS4;

(2) County or counties where the small MS4 is located;

(3) An indication if all or a portion of the small MS4 is located on Indian Country Lands;

(4) The name, mailing address, telephone number, email (if available) and fax number of the designated person(s) responsible for implementing or coordinating implementation of the SWMP;

(5) A signature and certification on the NOI, according to 30 TAC § 305.44, that a SWMP has been developed according to the provisions of this permit;

(6) A statement that the applicant will comply with the Public Participation requirements described in Part II.E.12.;

(7) The name of each classified segment that receives discharges, directly or indirectly, from the small MS4. If one or more of the discharge(s) is not directly to a classified segment, then the name of the first classified segment that those discharges reach must be identified;

(8) The name of any MS4 receiving the discharge prior to discharge into waters of the U.S.;

(9) The name of all surface water(s) receiving discharges from the small MS4 that are on the latest EPA-approved CWA § 303(d) list of impaired waters;

(10) An indication of whether the small MS4 discharges within the Recharge Zone, the Contributing Zone or the Contributing Zone within the Transition Zone of the Edwards Aquifer; and

(11) Any other information deemed necessary by the executive director.

5. Notice of Change (NOC)

If the MS4 operator becomes aware that it failed to submit any relevant facts, or submitted incorrect information in the NOI, the correct information must be provided to the executive director in a NOC within 30 days after discovery. If any information provided in the NOI changes, an NOC must be submitted within 30 days from the time the permittee becomes aware of the change.

Any revisions that are made to the SWMP must be made in accordance with Part II.E.3. above. Changes that are made to the SWMP following NOI approval must be made using an NOC form, in accordance with Part II.E.3. above.

6. Change in Operational Control of a Small MS4

If the operational control of the regulated small MS4 changes, the previous operator must submit a Notice of Termination (NOT) and the new operator must submit an NOI and SWMP. The NOT and NOI must be submitted concurrently not more than ten (10) calendar days after the change occurs.

7. Notice of Termination (NOT)

A permittee may terminate coverage under this general permit by providing a Notice of Termination (NOT) on a form approved by the executive director. Authorization to discharge terminates at midnight on the day that an NOT is postmarked for delivery to the TCEQ, or immediately following confirmation of receipt of the electronic NOT form by the TCEQ. A NOT must be submitted within 30 days after the MS4 operator obtains coverage under an individual permit.

8. Signatory Requirement for NOI, NOT, NOC, and Waiver Forms

NOI, NOT, NOC, and Waiver forms must be signed and certified consistent with 30 TAC § 305.44(a) and (b) (relating to Signatories to Applications).

9. Fees

An application fee of $100.00 must be submitted with each NOI. A fee is not required for submission of a waiver form, a NOT, or an NOC.

A permittee authorized under this general permit must pay an annual Water Quality fee of $100.00 under TWC § 26.0291 and 30 TAC Chapter 205 (relating to General Permits for Waste Discharges).

10. Permit Expiration

(a) This general permit is effective for five (5) years from the permit effective date. Authorizations for discharge under the provisions of this general permit will continue until the expiration date of the general permit. This general permit may be amended, revoked, or canceled by the commission or renewed by the TCEQ for an additional term not to exceed five (5) years.

(b) If the executive director proposes to reissue this general permit before the expiration date, the general permit will remain in effect until the date on which the commission takes final action on the proposal to reissue this general permit. For existing permittees, general permit coverage will remain in effect after the expiration date of the existing general permit, in accordance with 30 TAC, Chapter 205. No new NOIs will be accepted and no new authorizations will be processed under the general permit after the expiration date.

(c) Following issuance of a renewed or amended general permit, all permittees, including those covered under the expired general permit, may be required to submit an NOI according to the requirements of the new general permit or to obtain a TPDES individual permit for those discharges. The renewed permit will include a deadline to apply for coverage, and authorization for existing permittees will be automatically extended until the deadline to apply for coverage, or until an application is submitted for renewal, whichever occurs first.

(d) If the TCEQ does not propose to reissue this general permit within 90 days before the expiration date, permittees must apply for authorization under a TPDES individual permit or an alternative general permit. If the application for an individual permit is submitted before the expiration date of this general permit, authorization under this expiring general permit remains in effect until the issuance or denial of an individual permit.

11. Suspension of Permit Coverage

The executive director may suspend an authorization under this general permit for the reasons specified in 30 TAC § 205.4(d) by providing the discharger with written notice of the decision to suspend that authority, and the written notice will include a brief statement of the basis for the decision. If the decision requires an application for an individual permit or an alternative general permit, the written notice will also include a statement establishing the deadline for submitting an application. The written notice will state that the authorization under this general permit is either suspended on the effective date of the commission's action on the permit application, unless the commission expressly provides otherwise, or immediately, if required by the executive director.

12. Public Notice Process for NOI submittal

An applicant under this general permit shall adhere to the following procedures:

(a) The applicant shall submit an NOI and SWMP to the executive director. The SWMP must include information about:

(1) BMPs the applicant will implement for each of the six MCMs, as appropriate;

(2) The measurable goals for each of the BMPs, including, as appropriate the months and years in which the applicant will take the required actions, including interim milestones and the frequency of the action; and

(3) The person or persons responsible for implementing or coordinating the applicants SWMP.

(b) After the applicant receives written instructions from the TCEQ's Office of Chief Clerk, the applicant must publish notice of the executive director's preliminary decision on the NOI and SWMP.

(c) The notice will include the following information, at a minimum:

(1) The legal name of the MS4 operator;

(2) Indication of whether the NOI is for a new authorization or is a renewal of an existing authorization;

(3) The address of the applicant;

(4) A brief summary of the information included in the NOI, such as the general location of the small MS4 and a description of the classified receiving waters that receive the discharges from the small MS4;

(5) The location and mailing address where the public may provide comments to the TCEQ;

(6) The public location where copies of the NOI and SWMP, as well as the executive director's general permit and fact sheet, may be reviewed; and

(7) If required by the executive director, the date, time, and location of the public meeting.

(d) This notice must be published at least once in a newspaper of general circulation in the municipality or county where the small MS4 is located. If the small MS4 is located in multiple municipalities or counties, the notice must be published at least once in a newspaper of general circulation in the municipality or county containing the largest resident population for the regulated portion of the small MS4. This notice must provide opportunity for the public to submit comments on the NOI and SWMP. In addition, the notice must allow the public to request a public meeting. A public meeting will be held if the TCEQ determines that there is significant public interest.

(e) The public comment period begins on the first date the notice is published and lasts for at least 30 days. If a public meeting is held, the comment period will end at the closing of the public meeting (see paragraph (f) below). The public may submit written comments to the TCEQ Office of Chief Clerk during the comment period detailing how the NOI or SWMP for the small MS4 fails to meet the technical requirements or conditions of this general permit.

(f) If significant public interest exists, the executive director will direct the applicant to publish a notice of the public meeting and to hold the public meeting. The applicant shall publish notice of a public meeting at least 30 days before the meeting and hold the public meeting in a county where the small MS4 is located. TCEQ staff will facilitate the meeting.

(g) If a public meeting is held, the applicant shall describe the contents of the NOI and SWMP. The applicant shall also provide maps and other data on the small MS4. The applicant shall provide a sign in sheet for attendees to register their names and addresses and furnish the sheet to the executive director. A public meeting held under this general permit is not an evidentiary proceeding.

(h) The applicant shall file with the Chief Clerk a copy and an affidavit of the publication of notice(s) within 60 days of receiving the written instructions from the Chief Clerk.

(i) The executive director, after considering public comment, will either approve, approve with conditions, or deny the NOI based on whether the NOI and SWMP meet the requirements of this general permit.

(j) Persons whose names and addresses appear legibly on the sign-in sheet from the public meeting and persons who submitted written comments to the TCEQ will be notified by the TCEQ's Office of Chief Clerk of the executive director's decision regarding the authorization.

Section F. Permitting Options

1. Authorization Under the General Permit

An operator of a small MS4 is required to obtain authorization either under this general permit, or under an individual TPDES permit if it is located in a UA or designated by the TCEQ. Multiple small MS4s with separate operators must individually submit an NOI to obtain coverage under this general permit, regardless of whether the systems are physically interconnected, located in the same UA, or are located in the same watershed. Each regulated small MS4 will be issued a distinct permit number. These MS4 operators may combine or share efforts in meeting any or all of the SWMP requirements stated in Part III of this general permit. MS4 operators that share SWMP development and implementation responsibilities must meet the following conditions:

(a) Participants

The SWMP must clearly list the name and permit number for each MS4 operator that chooses to contributes to development or implementation of the SWMP, and provide written confirmation that the contributing MS4 operator has agreed to contribute. If a contributing small MS4 has submitted a NOI and SWMP to TCEQ, but has not yet received written notification of approval, along with the accompanying permit authorization number, a copy of the submitted NOI form must be made readily available or be included in the SWMP.

(b) Responsibilities

Each permittee is entirely responsible for meeting SWMP requirements within the boundaries of its small MS4. Where a separate MS4 operator is contributing to implementation of the SWMP, the SWMP must clearly define each minimum control measure and the component(s) each entity agrees to implement, within which MS4 area(s) each entity agrees to implement and clearly identify the contributing MS4 operator.

2. Alternative Coverage under an Individual TPDES Permit

An MS4 operator eligible for coverage under this general permit may alternatively be authorized under an individual TPDES permit according to 30 TAC Chapter 305 (relating to Consolidated Permits). The executive director may require a MS4 operator, authorized by this general permit, to apply for an individual TPDES permit because of: the conditions of an approved TMDL or TMDL implementation plan; a history of substantive non-compliance; or other 30 TAC Chapter 205 considerations and requirements; or other site-specific considerations. The executive director shall deny or suspend a facility's authorization for disposal under this general permit based on a rating of "unsatisfactory performer" according to commission rules in 30 TAC §60.3, *Use of Compliance History*. An applicant who owns or operates a facility classified as an "unsatisfactory performer" is

entitled to a hearing before the commission prior to having its coverage denied or suspended, in accordance with TWC § 26.040(h).

Part III. Stormwater Management Program (SWMP)

To the extent allowable under state and local law, a SWMP must be developed, implemented and enforced according to the requirements of Part III of this general permit, for stormwater discharges that reach waters of the U.S., regardless of whether the discharge is conveyed through a separately operated storm sewer system. The SWMP must be developed, implemented and enforced to reduce the discharge of pollutants from the small MS4 to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the CWA and the TWC.

A permittee that implements best management practices consistent with the provisions of their permit and SWMP constitutes compliance with the standard of reducing pollutants to the MEP and will be deemed in compliance with Part III of this permit. This permit does not extend any compliance deadlines set forth in the previous permit effective August 13, 2007.

Section A. Developing a Stormwater Management Program (SWMP)

1. SWMP Development and Schedule

(a) Existing regulated small MS4s

Permittees who were regulated under the previous TPDES general permit TXR040000, shall update and submit to the TCEQ an updated SWMP under this general permit along with the NOI for coverage. The NOI and SWMP are due within 180 days of the general permit effective date. The permittee shall continue to operate under the conditions of the previous permit and existing SWMP until the revised SWMP is approved.

(b) New regulated small MS4s

Operators of regulated small MS4s that were not required to obtain permit coverage under the previous TPDES general permit TXR040000, have 180 days from the effective date of the general permit to develop and submit their NOI and SWMP.

(c) Implementation of the SWMP

Existing small MS4 operators shall ensure full implementation of any new elements in the revised SWMP as soon as practicable, but no later than five years from the permit effective date. Previously regulated MS4 operators shall continue to implement existing elements in the approved SWMPs until the revised SWMPs has been approved.

Designated small MS4s must achieve full implementation of the SWMP as soon as practicable, but no later than five years from designation. Newly regulated small MS4s, based on the 2010 Decennial Census, must achieve full implementation of the SWMP as soon as practicable, but no later than five years from the permit effective date.

2. Content of the SWMP

At a minimum, the permittee shall include the following information in its SWMP:

(a) A description of Minimum Control Measures (MCM) with measureable goals, including, as appropriate, the months and years in which the permittee will undertake required actions, including interim milestones and the frequency of the action for each MCM described in Part III, Section B.

(b) A measurable goal that includes the development of ordinances or other regulatory mechanisms, allowed by state, federal and local law, providing the legal authority necessary to implement and enforce the requirements of this permit, including information on any limitations to the legal authority;

(c) A summary of written procedures describing how the permittee will implement the provisions in Parts III and IV of this general permit.

(d) A description of a program or a plan of compliance with the requirements in Part II.D.4. (relating to Impaired Water Bodies and Total Maximum Daily Load (TMDL) Requirements)

3. Legal Authority

(a) Traditional small MS4s, such as cities

(1) Within two years from the permit effective date, the permittee shall review and revise, if needed, its relevant ordinance(s) or other regulatory mechanism(s), or shall adopt a new ordinance(s) or other regulatory mechanism(s) that provide the permittee with adequate legal authority to control pollutant discharges into and from its small MS4 in order to meet the requirements of this general permit.

(2) To be considered adequate, this legal authority must, at a minimum, address the following:

a. Authority to prohibit illicit discharges and illicit connections;

b. Authority to respond to and contain other releases – Control the discharge of spills, and prohibit dumping or disposal of materials other than stormwater into the small MS4;

c. Authority to require compliance with conditions in the permittee's ordinances, permits, contracts, or orders;

d. Authority to require installation, implementation, and maintenance of control measures;

e. Authority to receive and collect information, such as stormwater plans, inspection reports, and other information deemed necessary to assess compliance with this permit, from operators of construction sites, new or redeveloped land, and industrial and commercial facilities;

f. Authority, as needed, to enter and inspect private property including facilities, equipment, practices, or operations related to stormwater discharges to the small MS4;

g. Authority to respond to non-compliance with BMPs required by the small MS4 consistent with their ordinances or other regulatory mechanism(s);

h. Authority to assess penalties, including monetary, civil, or criminal penalties; and

i. Ability to enter into interagency or interlocal agreements or other maintenance agreements, as necessary.

(b) Non-traditional small MS4s, such as counties, drainage districts, transportation entities, municipal utility districts, military bases, prisons and universities

(1) Where the permittee lacks the authority to develop ordinances or to implement enforcement actions, the permittee shall exert enforcement authority as required by this general permit for its facilities, employees, contractors, and any other entity over which it has operational control within the portion of the UA under the jurisdiction of the permittee. For discharges from third party actions, the permittee shall perform inspections and exert enforcement authority to the MEP.

(2) If the permittee does not have inspection or enforcement authority and is unable to meet the goals of this general permit through its own powers, then, unless otherwise stated in this general permit, the permittee shall perform the following actions in order to meet the goals of the permit:

a. Enter into interlocal agreements with municipalities where the small MS4 is located. These interlocal agreements must state the extent to which the municipality will be responsible for inspections and enforcement authority in order to meet the conditions of this general permit; or,

b. If it is not feasible for the permittee to enter into interlocal agreements, the permittee shall notify an adjacent MS4 operator with enforcement authority or TCEQs Field Operations Support Division as needed to report discharges or incidents that it cannot itself enforce against. In determining feasibility for entering into interlocal agreements, the permittee shall consider all factors, including, without limitations, financial considerations and the willingness of the municipalities in which the small MS4 is located.

4. Resources

It is the permittee's responsibility to ensure that it has adequate resources and funding to implement the requirements of this permit.

5. Effluent Limitations

The controls and BMPs included in the SWMP constitute effluent limitations for the purposes of compliance with state rules. This includes the requirements of 30 TAC Chapter 319, Subchapter B, which lists the maximum allowable concentrations of hazardous metals for discharge to water in the state.

6. Enforcement Measures

Permittees with enforcement authority (i.e. traditional small MS4s) shall develop a standard operating procedure (SOP) to respond to violations to the extent allowable under state and local law. When the permittee does not have enforcement authority over the violator, and the violations continue after violator has been notified by the permittee, the permittee shall notify either the adjacent MS4 operator with enforcement authority or TCEQ's Field Operations Support Division.

Section B. Minimum Control Measures

Operators of small MS4s seeking coverage under this general permit shall develop and implement a SWMP that includes the following six minimum control measures (MCMs), as applicable.

All program elements must be implemented according to the schedule mentioned in Part III.A. All six MCMs apply to all MS4s regardless of their level as described in Part II.A.5. Specific program elements under each MCM shall be implemented by all MS4 operators, unless it is specifically stated that particular program elements only are applicable for certain levels of small MS4s.

Permittees shall provide justification within the SWMP for any requirements that were not implemented because they were not feasible as described in each MCM.

1. Public Education, Outreach, and Involvement

(a) Public Education and Outreach

(1) 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.

Existing permittees shall assess program elements that were described in the previous permit, modify as necessary, and develop and implement new elements, as necessary, to continue reducing the discharge of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the program fully implemented by the end of this permit term. The program must, at a minimum:

a. Define the goals and objectives of the program based on high priority community-wide issues (for example, reduction of nitrogen in discharges from the small MS4, promoting previous techniques used in the small MS4, or improving the quality of discharges to the Edwards Aquifer);

b. Identify the target audience(s);

c. Develop or utilize appropriate educational materials, such as printed materials, billboard and mass transit advertisements, signage at select locations, radio advertisements, television advertisements, and websites;

d. Determine cost effective and practical methods and procedures for distribution of materials.

(2) Throughout the permit term, all permittees shall make the educational materials available to convey the program's message to the target audience(s) at least annually.

(3) All permittees shall review and update as necessary, the SWMP and MCM implementation procedures required by Part III.A.2.. Any changes must be reflected in the annual report. Such written procedures must be maintained, either on site or in the SWMP and made available for inspection by the TCEQ.

(4) MS4 operators may partner with other MS4 operators to maximize the program and cost effectiveness of the required outreach.

(b) Public Involvement

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.

Existing permittees shall assess program elements that were described in the previous permit, modify as necessary, and develop and implement new elements, as necessary, to continue reducing the discharge of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the program fully implemented by the end of this permit term. At a minimum, all permittees shall:

(1) If feasible, consider using public input (for example, the opportunity for public comment, or public meetings) in the implementation of the program;

(2) If feasible, create opportunities for citizens to participate in the implementation of control measures, such as stream clean-ups, storm drain stenciling, volunteer monitoring, volunteer "Adopt-A-Highway" programs, and educational activities;

(3) Ensure the public can easily find information about the SWMP.

2. Illicit Discharge Detection and Elimination (IDDE)

(a) Program Development

(1) 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.

Existing permittees must assess program elements that were described in the previous permit, modify as necessary, and develop and implement new elements, as necessary, to continue reducing the discharge of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the program fully implemented by the end of this permit term. See also Part III.A.1(c).

The Illicit Discharge Detection and Elimination (IDDE) program must include the following:

a. An up-to-date MS4 map (see Part III.B.2.(c)(1));

b. Methods for informing and training MS4 field staff (See Part III.B.2.(c)(2));

c. Procedures for tracing the source of an illicit discharge (see Part III. B.2.(c)(5));

d. Procedures for removing the source of the illicit discharge (see Part III.B.2.(c)(5));

e. For Level 2, 3 and 4 small MS4s, if applicable, procedures to prevent and correct any leaking on-site sewage disposal systems that discharge into the small MS4;

f. For Level 4 small MS4s, procedures for identifying priority areas within the small MS4 likely to have illicit discharges, and a list of all such areas identified in the small MS4 (See Part III.B.2.(g)(1));

g. For Level 4 small MS4s, field screening to detect illicit discharges (See Part III.B.2.(g)(2)).

(2) For non-traditional small MS4s, if illicit connections or illicit discharges are observed related to another operator's MS4, the permittee shall notify the other MS4 operator within 48 hours of discovery. If notification to the other MS4 operator is not practicable, then the permittee shall notify the appropriate TCEQ regional office of the possible illicit connection.

(3) If another MS4 operator notifies the permittee of an illegal connection or illicit discharge to the small MS4, then the permittee shall follow the requirements specified in Part III.B.2.(c)(3).

(4) All permittees shall review and update as necessary, the SWMP and MCM implementation procedures required by Part III.A.2.. Any changes must be reflected in the annual report. Such written procedures must be maintained, either on site or in the SWMP and made available for inspection by the TCEQ.

(b) Allowable Non-Stormwater Discharges

Non-stormwater flows listed in Part II.C do not need to be considered by the permittee as an illicit discharge requiring elimination unless the permittee or the TCEQ identifies the flow as a significant source of pollutants to the small MS4.

(c) Requirements for all Permittees

All permittees shall include the requirements described below in Parts III.B.2(c)(1)-(6)

(1) MS4 mapping

All permittees shall maintain an up-to-date MS4 map, which must be located on site and available for review by the TCEQ. The MS4 map must show at a minimum the following information:

a. The location of all small MS4 outfalls that are operated by the permittee and that discharge into waters of the U.S;

b. The location and name of all surface waters receiving discharges from the small MS4 outfalls;

c. Priority areas identified under Part III.B.2.(e)(1) if applicable.

(2) Education and Training

All permittees shall implement a method for informing or training all the permittee's field staff that may come into contact with or otherwise observe an illicit discharge or illicit connection to the small MS4 as part of their normal job responsibilities. Training program materials and attendance lists must be maintained on site and made available for review by the TCEQ.

(3) Public Reporting of Illicit Discharges and Spills

To the extent feasible, all permittees shall publicize and facilitate public reporting of illicit discharges or water quality impacts associated with discharges into or from the small MS4. The permittee shall provide a central contact point to receive reports; for example by including a phone number for complaints and spill reporting.

(4) All permittees shall develop and maintain on site procedures for responding to illicit discharges and spills.

(5) Source Investigation and Elimination

a. Minimum Investigation Requirements – Upon becoming aware of an illicit discharge, all permittees shall conduct an investigation to identify and locate the source of such illicit discharge as soon as practicable.

(i) All permittees shall prioritize the investigation of discharges based on their relative risk of pollution. For example, sanitary sewage may be considered a high priority discharge.

(ii) All permittees shall 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.

(iii) All permittees shall 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.

b. Identification and Investigation of the Source of the Illicit Discharge –All permittees shall investigate and document the source of illicit discharges where the permittees have jurisdiction to complete such an investigation. If the source of illicit discharge extends outside the permittee's boundary, all permittees shall notify the adjacent permitted MS4 operator or TCEQ's Field Operation Support Division according to Part III.A.3.b.

c. Corrective Action to Eliminate Illicit Discharge

(i) If and when the source of the illicit discharge has been determined, all permittees 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.

(6) Inspections –The permittee shall conduct inspections, as determined appropriate, in response to complaints, and shall conduct follow-up inspections as needed to ensure that corrective measures have been implemented by the responsible party.

(d) Additional Requirements for Level 3 and 4 small MS4s

In addition to the requirements described in Parts III.B.2(c)(1)-(6) above, permittees who operate level 3 and 4 small MS4s shall meet the following requirements:

(1) Source Investigation and Elimination

Permittees who operate level 3 and 4 small MS4 shall upon being notified that the discharge has been eliminated, conduct a follow-up investigation or field screening, consistent with Part III.B.2.(e)(2), to verify that the discharge has been eliminated. The permittee shall document its follow-up investigation. The permittee may seek recovery and remediation costs from responsible parties consistent with Part III.A.3., and require compensation related costs. Resulting enforcement actions must follow the procedures for enforcement action in Part III.A.3. If the suspected source of the illicit discharge is authorized under an NPDES/TPDES permit or the discharge is listed as an authorized non-stormwater discharge, as described in Part III.C, no further action is required.

(e) Additional Requirements for Level 4 small MS4s

In addition to the requirements described in Parts III.B.2(c)-(d) above, permittees who operate level 4 small MS4s shall meet the following requirements:

(1) Identification of Priority Areas

Permittees who operate level 4 small MS4s shall identify priority areas and shall document the basis for the selection of each priority area and shall create a list of all priority areas identified. This priority area list must be available for review by the TCEQ.

(2) Dry Weather Field Screening

By the end of the permit term, permittees who operate level 4 small MS4s shall develop and implement a written dry weather field screening program to assist in detecting and eliminating illicit discharges to the small MS4. Dry weather field screening must consist of (1) field observations; and (2) as needed, field screening.

If dry weather field screening is necessary, at a minimum, the permittee shall:

a. Conduct dry weather field screening in priority areas as identified by the permittee in Part III.B.2(e)(1). By the end of the permit term, all of those priority areas, although not necessarily all individual outfalls must be screened.

b. Field observation requirements – The permittee shall develop written procedures for observing flows from outfalls when there has been at least 72 hours of dry weather. The written procedures should include the basis used to determine which outfalls would be observed. The permittee shall record visual observations such as odor, color, clarity, floatables, deposits or stains.

c. Field screening requirements – The permittee shall develop written procedures to determine which dry weather flows will be screened, based on results of field observations or complaint from the public or the permittee's trained field staff. At a minimum, when visual observations indicate a potential problem such as discolored flows, foam, surface sheen, and other similar indicators of contamination, the permittee shall conduct a field screening analysis for selected indicator pollutants as determined by the permittee. Screening methodology may be modified based on experience gained during the actual field screening activities. The permittee shall document the method used.

3. Construction Site Stormwater Runoff Control

(a) Requirements and Control Measures

(1) 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.

Existing permittees shall assess program elements that were described in the previous permit, modify as necessary, and develop and implement new elements, as necessary, to continue reducing the discharge of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the the progam fully implemented by the end of this permit term.

If TCEQ waives requirements for stormwater discharges associated with small construction from a specific site(s), the permittee is not required to enforce the program to reduce pollutant discharges from such site(s).

(b) Requirements for all Permittees

All permittees shall include the requirements described below in Parts III.B.3(b)(1)-(7)

(1) All permittees shall review and update as necessary, the SWMP and MCM implementation procedures required by Part III.A.2. Any changes must be included in the annual report. Such written procedures must be maintained on site or in the SWMP and made available for inspection by the TCEQ.

(2) All permittees shall require that construction site operators implement appropriate erosion and sediment control BMPs. The permittee's construction program must ensure the following minimum requirements are effectively implemented for all small and large construction activities discharging to its small MS4.

a. Erosion and Sediment Controls - Design, install and maintain effective erosion controls and sediment controls to minimize the discharge of pollutants.

b. Soil Stabilization - Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. Stabilization must be completed within a period of time determined by the permittee. In arid, semiarid, and drought-stricken areas, as determined by the permittee, where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures must be employed as specified by the permittee.

c. BMPs – Design, install, implement, and maintain effective BMPs to minimize the discharge of pollutants to the small MS4. At a minimum, such BMPs must be designed, installed, implemented and maintained to:

(i) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters;

(ii) Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and to stormwater; and

(iii) Minimize the discharge of pollutants from spills and leaks.

d. As an alternative to (a) through (c) above, all permittees shall ensure that all small and large construction activities discharging to the small MS4 have developed and implemented a stormwater pollution prevention plan (SWP3) in accordance with the TPDES CGP TXR150000. In arid, semiarid, and drought-stricken areas, as determined by the permittee, where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures must be employed as specified by the permittee. As an alternative, vegetative stabilization measures may be implemented as soon as practicable.

(3) Prohibited Discharges - The following discharges are prohibited:

a. Wastewater from washout of concrete and wastewater from water well drilling operations, unless managed by an appropriate control;

b. Wastewater from washout and cleanout of stucco, paint, from release oils, and other construction materials;

c. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and,

d. Soaps or solvents used in vehicle and equipment washing;

e. Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, unless managed by appropriate BMPs.

(4) Construction Plan Review Procedures

To the extent allowable by state, federal, and local law, all permittees shall maintain and implement site plan review procedures, that describe which plans will be reviewed as well as when an operator may begin construction. For those permittees without legal authority to enforce site plan reviews, this requirement is limited to those sites operated by the permittee and its contractors and located within the permittee's regulated area. The site plan procedures must meet the following minimum requirements:

a. The site plan review procedures must incorporate consideration of potential water quality impacts.

b. The permittee may not approve any plans unless the plans contain appropriate site specific construction site control measures that, at a minimum, meet the requirements described in Part III.B.3.(a) or in the TPDES CGP, TXR150000.

The permittee may require and accept a plan, such as a SWP3, that has been developed pursuant to the CGP, TXR150000.

(5) Construction Site Inspections and Enforcement

To the extent allowable by state, federal, and local law, all permittees shall implement procedures for inspecting large and small construction projects. Permittees without legal authority to inspect construction sites shall at a minimum conduct inspections of sites operated by the permittee or its contractors and that are located in the permittee's regulated area.

a. Inspections must occur at a frequency determined by the permittee, based on the evaluation of factors that are a threat to water quality, such as: soil erosion potential; site slope; project size and type; sensitivity of receiving waterbodies; proximity to receiving waterbodies; non-stormwater discharges; and past record of non-compliance by the operators of the construction site.

b. Inspections must occur during the active construction phase.

(i) All permittees shall develop, implement, and revise as necessary, written procedures outlining the inspection and enforcement requirements. These procedures must be maintained on site or in the SWMP and be made available to TCEQ.

(ii) Inspections of construction sites must, at a minimum:

1. Determine whether the site has appropriate coverage under the TPDES CGP, TXR150000. If no coverage exists, notify the permittee of the need for permit coverage.
2. Conduct a site inspection to determine if control measures have been selected, installed, implemented, and maintained according to the small MS4's requirements.
3. Assess compliance with the permittee's ordinances and other regulations.
4. Provide a written or electronic inspection report.

c. Based on site inspection findings, all permittees shall take all necessary follow-up actions (for example, follow-up-inspections or enforcement) to ensure compliance with permit requirements and the SWMP. These follow-up and enforcement actions must be tracked and maintained for review by the TCEQ.

For non-traditional small MS4s with no enforcement powers, the permittee shall notify the adjacent MS4 operator with enforcement authority or the TCEQ's Field Operations Support Division according to Part III.A.3(b).

(6) Information submitted by the Public

All permittees shall develop, implement and maintain procedures for receipt and consideration of information submitted by the public.

(7) MS4 Staff Training

All permittees shall ensure that all staff whose primary job duties are related to implementing the construction stormwater program (including permitting, plan review, construction site inspections, and enforcement) are informed or trained to conduct these activities. The training may be conducted by the permittee or by outside trainers.

(c) Additional Requirements for Level 3 and 4 small MS4s

In addition to the requirements described in Parts III.B.3(b)(1)-(7) above, permittees who operate level 3 and 4 small MS4s shall meet the following requirements:

(1) Construction Site Inventory

Permittees who operate level 3 and 4 small MS4s shall maintain an inventory of all permitted active public and private construction sites, that result in a total land disturbance of one or more acres or that result in a total land disturbance of less than one acre if part of a larger common plan or development or sale. Notification to the small MS4 should be made by submittal of a copy of an NOI or a small construction site notice. The permittee shall make this inventory available to the TCEQ upon request.

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

(a) Post-Construction Stormwater Management Program

(1) 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.

Existing permittees shall assess program elements that were described in the previous permit, modify as necessary, to continue reducing the discharge of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the program fully implemented by the end of the permit term.

(2) All permittees shall use, to the extent allowable under state, federal, and local law and local development standards, an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects. The permittees shall establish, implement, and enforce a requirement, that owners or operators of new development and redeveloped sites design, install, implement, and maintain a combination of structural and non-structural BMPs appropriate for the community and that protects water quality. If the construction of permanent structures is not feasible due to space limitations, health and safety concerns, cost effectiveness, or highway construction codes, the permittee may propose an alternative approach to TCEQ. Newly regulated permittees shall have the program element fully implemented by the end of the permit term.

(b) Requirements for all Permittees

All permittees shall include the requirements described below in Parts III.B.4.(b)(1)-(3)

(1) All permittees shall review and update as necessary, the SWMP and MCM implementation procedures required by Part III.A.2.. Any changes must be included in the annual report. Such written procedures must be maintained either on site or in the SWMP and made available for inspection by TCEQ.

(2) All permittees shall document and maintain records of enforcement actions and make them available for review by the TCEQ.

(3) Long-Term Maintenance of Post-Construction Stormwater Control Measures

All permittees shall, to the extent allowable under state, federal, and local law, ensure the long-term operation and maintenance of structural stormwater control measures installed through one or both of the following approaches:

a. Maintenance performed by the permittee. See Part III.B.5

b. Maintenance performed by the owner or operator of a new development or redeveloped site under a maintenance plan. The maintenance plan must be filed in the real property records of the county in which the property is located. The permittee shall require the owner or operator of any new development or redeveloped site to develop and implement a maintenance plan addressing maintenance requirements for any structural control measures installed on site. The permittee shall require operation and maintenance performed is documented and retained on site, such as at the offices of the owner or operator, and made available for review by the small MS4.

(c) Additional Requirements for Level 4 small MS4s

In addition to the requirements described in Parts III.B.5(b)(1)-(3) above, permittees who operate level 4 small MS4s shall meet the following requirements:

(1) Inspections - Permittees who operate level 4 small MS4s shall develop and implement an inspection program to ensure that all post construction stormwater control measures are operating correctly and are being maintained as required consistent with its applicable maintenance plan. For small MS4s with limited enforcement authority, this requirement applies to the structural controls owned and operated by the small MS4 or its contractors that perform these activities within the small MS4's regulated area.

a. Inspection Reports - The permittee shall document its inspection findings in an inspection report and make them available for review by the TCEQ.

5. Pollution Prevention and Good Housekeeping for Municipal Operations

(a) Program development

(1) 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.

Existing permittees shall assess program elements that were described in the previous permit, modify as necessary, and develop and implement new elements, as necessary, to continue reducing the discharges of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the program fully implemented by the end of this permit term. See also Part III.A.1.(c))

(b) Requirements for all Permittees

All permitees shall include the requirements described below in Parts III.B.5.(1)-(6) in the program:

(1) Permittee-owned Facilities and Control Inventory

All permittees shall develop and maintain an inventory of facilities and stormwater controls that it owns and operates within the regulated area of the small MS4. If feasible, the inventory may include all applicable permit numbers, registration numbers, and authorizations for each facility or controls. The inventory must be available for review by TCEQ and must include, but is not limited, to the following, as applicable:

a. Composting facilities;

b. Equipment storage and maintenance facilities;

c. Fuel storage facilities;

d. Hazardous waste disposal facilities;

e. Hazardous waste handling and transfer facilities;

f. Incinerators;

g. Landfills;

h. Materials storage yards;

i. Pesticide storage facilities;

j. Buildings, including schools, libraries, police stations, fire stations, and office buildings;

k. Parking lots;

l. Golf courses;

m. Swimming pools;

n. Public works yards;

o. Recycling facilities;

p. Salt storage facilities;

q. Solid waste handling and transfer facilities;

r. Street repair and maintenance sites;

s. Vehicle storage and maintenance yards; and

t. Structural stormwater controls.

(2) Training and Education

All permittees shall inform or train appropriate employees involved in implementing pollution prevention and good housekeeping practices. All permittees shall maintain a training attendance list for inspection by TCEQ when requested.

(3) Disposal of Waste Material - Waste materials removed from the small MS4 must be disposed of in accordance with 30 TAC Chapters 330 or 335, as applicable.

(4) Contractor Requirements and Oversight

a. Any contractors hired by the permittee to perform maintenance activities on permittee-owned facilities must be contractually required to comply with all of the stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures described in Parts III B.5.(2)-(6).

b. All permittees shall provide oversight of contractor activities to ensure that contractors are using appropriate control measures and SOPs. Oversight procedures must be developed before the end of the permit term and maintained on site and made available for inspection by TCEQ.

(5) Municipal Operation and Maintenance Activities

a. Assessment of permittee-owned operations

All permittees shall evaluate operation and maintenance (O&M) activities for their potential to discharge pollutants in stormwater, including but not limited to:

(i) Road and parking lot maintenance may include such areas as pothole repair, pavement marking, sealing, and re-paving;

(ii) Bridge maintenance may include such areas as re-chipping, grinding, and saw cutting;

(iii) Cold weather operations, including plowing, sanding, and application of deicing and anti-icing compounds and maintenance of snow disposal areas; and

(iv) Right-of-way maintenance, including mowing, herbicide and pesticide application, and planting vegetation.

b. All permittees shall identify pollutants of concern that could be discharged from the above O&M activities (for example, metals; chlorides; hydrocarbons such as benzene, toluene, ethyl benzene, and xylenes; sediment; and trash).

c. All permittees shall develop and implement a set of pollution prevention measures that will reduce the discharge of pollutants in stormwater from the above activities. These pollution prevention measures may include the following examples:

(i) Replacing materials and chemicals with more environmentally benign materials or methods;

(ii) Changing operations to minimize the exposure or mobilization of pollutants to prevent them from entering surface waters; and

(iii) Placing barriers around or conducting runoff away from deicing chemical storage areas to prevent discharge into surface waters.

d. Inspection of pollution prevention measures - All pollution prevention measures implemented at permittee-owned facilities must be visually inspected at a frequency determined by the permittee to ensure they are working properly. A log of inspections must be maintained and made available for review by the TCEQ upon request.

(6) Structural Control Maintenance

If BMPs include structural controls, maintenance of the controls must be performed at a frequency determined by the permittee and consistent with maintaining the effectiveness of the BMP.

(c) Additional Requirements for Level 3 and 4 small MS4s:

In addition to the requirements described in Parts.B.5.(b)(1)-(6) above, permittees who operate level 3 or 4 small MS4s shall meet the following requirements:

(1) Storm Sewer System Operation and Maintenance

a. Permittees who operate level 3 or 4 small MS4s shall develop and implement an O&M program to reduce to the maximum extent practicable the collection of pollutants in catch basins and other surface drainage structures.

b. Permittees who operate level 3 or 4 small MS4s shall develop a list of potential problem areas. The permittees shall identify and prioritize problem areas for increased inspection (for example, areas with recurrent illegal dumping).

(2) Operation and Maintenance Program to Reduce Discharges of Pollutants from Roads

Permittees who operate level 3 or 4 small MS4s shall implement an O&M program that includes, if feasible and practicable, a street sweeping and cleaning program,

or an equivalent BMP such as an inlet protection program, which must include an implementation schedule and a waste disposal procedure. The basis for the decision must be included in the SWMP. If a street sweeping and cleaning program is implemented, the permittee shall evaluate the following permittee-owned and operated areas for the program: streets, road segments, and public parking lots including, but not limited to, high traffic zones, commercial and industrial districts, sport and event venues, and plazas, as well as areas that consistently accumulate high volumes of trash, debris, and other stormwater pollutants.

a. Implementation schedules – If a sweeping program is implemented, the permittee shall sweep the areas in the program (for example, the streets, roads, and public parking lots) in accordance with a frequency and schedule determined in the permittee's O&M program.

b. For areas where street sweeping is technically infeasible (for example, streets without curbs), the permittee shall focus implementation of other trash and litter control procedures, or provide inlet protection measures to minimize pollutant discharges to storm drains and creeks.

c. Sweeper Waste Material Disposal – If utilizing street sweepers, the permittee shall develop a procedure to dewater and dispose of street sweeper waste material and shall ensure that water and material will not reenter the small MS4.

(3) Mapping of Facilities

Permittees who operate level 3 or 4 small MS4s shall, on a map of the area regulated under this general permit, identify where the permittee-owned and operated facilities and stormwater controls are located.

(4) Facility Assessment

Permittees who operate level 3 or 4 small MS4s shall perform the following facility assessment in the regulated portion of the small MS4 operated by the permittee:

a. Assessment of Facilities' Pollutant Discharge Potential - The permittee shall review the facilities identified in Part III.B.5.(b) once per permit term for their potential to discharge pollutants into stormwater.

b. Identification of *high priority* facilities - Based on the Part III.B.5.(c)(4)a. assessment, the permittee shall identify as *high priority* those facilities that have a high potential to generate stormwater pollutants and shall document this in a list of these facilities. Among the factors that must be considered in giving a facility a high priority ranking are the amount of urban pollutants stored at the site, the identification of improperly stored materials, activities that must not be performed outside (for example, changing automotive fluids, vehicle washing), proximity to waterbodies, proximity to sensitive aquifer recharge features, poor housekeeping practices, and discharge of pollutant(s) of concern to impaired water(s). High priority facilities must include, at a minimum, the permittee's maintenance yards, hazardous waste facilities, fuel storage locations, and any other facilities at which chemicals or other materials have a high potential to be discharged in stormwater.

c. Documentation of Assessment Results - The permittee shall document the results of the assessments and maintain copies of all site evaluation checklists used to conduct the assessments. The documentation must include the results

of the permittee's initial assessment, and any identified deficiencies and corrective actions taken.

(5) Development of Facility Specific SOPs

Permittees who operate level 3 or 4 small MS4s shall develop facility specific stormwater management SOPs. The permittee may utilize existing plans or documents that may contain the following required information:

a. For each high priority facility identified in Part III.B.5.(c)(4)b., the permittee shall develop a SOP that identifies BMPs to be installed, implemented, and maintained to minimize the discharge of pollutants in stormwater from each facility.

b. A hard or electronic copy of the facility-specific stormwater management SOP (or equivalent existing plan or document) must be maintained and be available for review by the TCEQ. The SOP must be kept on site when possible and must be updated as necessary.

(6) Stormwater Controls for High Priority Facilities

Permittees who operate level 3 or 4 small MS4s shall implement the following stormwater controls at all high priority facilities identified in Part III.B.5.(c)(4)b. A description of BMPs developed to comply with this requirement must be included in each facility specific SOP:

a. General good housekeeping – Material with a potential to contribute to stormwater pollution should be sheltered from exposure to stormwater when feasible.

b. De-icing and anti-icing material storage - The permittee shall ensure, to the MEP, that stormwater runoff from storage piles of salt and other de-icing and anti-icing materials is not discharged; or shall ensure that any discharges from the piles are authorized under a separate discharge permit.

c. Fueling operations and vehicle maintenance - The permittee shall develop SOPs (or equivalent existing plans or documents) which address spill prevention and spill control at permittee-owned and operated vehicle fueling, vehicle maintenance, and bulk fuel delivery facilities.

d. Equipment and vehicle washing - The permittee shall develop SOPs that address equipment and vehicle washing activities at permittee-owned and operated facilities. The discharge of equipment and vehicle wash water to the small MS4 or directly to receiving waters from permittee-owned facilities is not authorized under this general permit. To ensure that wastewater is not discharged under this general permit, the permittee's SOP may include installing a vehicle wash reclaim system, capturing and hauling the wastewater for proper disposal, connecting to sanitary sewer (where applicable and approved by local authorities), ceasing the washing activity, or applying for and obtaining a separate TPDES permit.

(7) Inspections

Permittees who operate level 3 or 4 small Ms4s shall develop and implement an inspection program, which at a minimum must include periodic inspections of high priority permittee-owned facilities. The results of the inspections and observations must be documented and available for review by the TCEQ.

(d) Additional Requirements for Level 4 small MS4s:

In addition to all the requirements described in Parts III.B.5(b) and III.B.5.(c) above, permittees who operate level 4 small MS4s shall meet the following requirements:

(1) Pesticide, Herbicide, and Fertilizer Application and Management

a. Landscape maintenance - The permittee shall evaluate the materials used and activities performed on public spaces owned and operated by the permittee such as parks, schools, golf courses, easements, public rights of way, and other open spaces for pollution prevention opportunities. Maintenance activities for the turf landscaped portions of these areas may include mowing, fertilization, pesticide application, and irrigation. Typical pollutants include sediment, nutrients, hydrocarbons, pesticides, herbicides, and organic debris.

b. The permittee shall implement the following practices to minimize landscaping-related pollutant generation with regard to public spaces owned and operated by the permittee:

(i) Educational activities, permits, certifications, and other measures for the permittee's applicators and distributors.

(ii) Pest management measures that encourage non-chemical solutions where feasible. Examples may include:

(a) Use of native plants or xeriscaping;

(b) Keeping clippings and leaves out the small MS4 and the street by encouraging mulching, composting, or landfilling;

(c) Limiting application of pesticides and fertilizers if precipitation is forecasted within 24 hours, or as specified in label instructions;

(d) Reducing mowing of grass to allow for greater pollutant removal, but not jeopardizing motorist safety.

c. The permittee shall develop schedules for chemical application in public spaces owned and operated by the permittee that minimize the discharge of pollutants from the application due to irrigation and expected precipitation.

d. The permittee shall ensure collection and proper disposal of the permittee's unused pesticides, herbicides, and fertilizers.

6. Industrial Stormwater Sources

(a) Permittees operating a level 4 small MS4 shall include the requirements described below in Part III. B.6.(1) – this requirement is only applicable to level 4 MS4s

(1) 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.

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

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 a 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.

This MCM is only available for projects where the small MS4 is a construction site operator or owner, and the MCM does not provide any authorization for other construction site operators at a municipal project.

Controls required under this MCM must be implemented prior to discharge from a municipal construction site into surface water in the state.

(a) The MCM must include:

(1) A description of how construction activities will generally be conducted by the permittee so as to take into consideration local conditions of weather, soils, and other site specific considerations;

(2) A description of the area that this MCM will address and where the permittee's construction activities are covered (for example within the boundary of the urbanized area, the corporate boundary, a special district boundary, an extra territorial jurisdiction, or other similar jurisdictional boundary);

(3) Either a description of how the permittee will supervise or maintain oversight over contractor activities to ensure that the SWP3 requirements are properly implemented at the construction site; or how the permittee will make certain that contractors have a separate authorization for stormwater discharges;

(4) A general description of how a SWP3 will be developed for each construction site, according to Part VI of this general permit, "Authorization for Municipal Construction Activities"; and

(5) Records of municipal construction activities authorized under this optimal MCM, in accordance with Part VI of this general permit.

Section C. General Requirements

Permittees shall provide information in the SWMP documenting the development and implementation of the program. At a minimum, the documentation must include:

1. A list of any public or private entities assisting with the development or implementation of the SWMP;
2. If applicable, a list of all MS4 operators contributing to the development and implementation of the SWMP, including a clear description of the contribution;
3. A list of all BMPs and measurable goals for each of the MCMs;
4. A schedule for the implementation of all SWMP requirements. The schedule must include, as appropriate, the months and years in which the permittee will undertake required actions, including interim milestones and the frequency of the action throughout the permit term.
5. A description of how each measurable goal will be evaluated; and
6. A rationale statement that addresses the overall program, including how the BMPs and measurable goals were selected.

Part IV. Recordkeeping and Reporting

Section A. Recordkeeping

1. The permittee shall retain all records, a copy of this TPDES general permit, and records of all data used to complete the application (NOI) for this general permit and satisfy the public participation requirements, for a period of at least three (3) years, or for the remainder of the term of this general permit, whichever is longer. This period may be extended by request of the executive director at any time.
2. The permittee shall submit the records to the executive director only when specifically asked to do so. The SWMP required by this general permit (including a copy of the general permit) must be retained at a location accessible to the TCEQ.
3. The permittee shall make the NOI and the SWMP available to the public at reasonable times during regular business hours, if requested to do so in writing. Copies of the SWMP must be made available within ten (10) working days of receipt of a written request. Other records must be provided in accordance with the Texas Public Information Act. However, all requests for records from federal facilities must be made in accordance with the Freedom of Information Act.
4. The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

Section B. Reporting

1. General Reporting Requirements

(a) Noncompliance Notification

According to 30 TAC § 305.125(9), any noncompliance which may endanger human health or safety, or the environment, must be reported by the permittee to the TCEQ. Report of such information must be provided orally or by electronic facsimile

transmission (FAX) to the TCEQ regional office within 24 hours of becoming aware of the noncompliance. A written report must be provided by the permittee to the appropriate TCEQ regional office and to the TCEQ Enforcement Division (MC-224) within five working days of becoming aware of the noncompliance. The written report must contain:

(1) A description of the noncompliance and its cause;

(2) The potential danger to human health or safety, or the environment;

(3) The period of noncompliance, including exact dates and times;

(4) If the noncompliance has not been corrected, the anticipated time it is expected to continue; and

(5) Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

(b) Other Information

When the permittee becomes aware that it either submitted incorrect information or failed to submit complete and accurate information requested in an NOI, NOT, or NOC, or any other report, the permittee shall promptly submit the facts or information to the executive director.

2. Annual Report

The MS4 operator shall submit a concise annual report to the executive director within 90 days of the end of each reporting year. For the purpose of this section, the reporting year may include either the permit year, the permittee's fiscal year or the calendar year, as elected by the small MS4 and notified to the TCEQ in the application submittal. The annual report must address the previous reporting year.

The first reporting year for annual reporting purposes shall begin on the permit effective date, and shall last for a period of one (1) year (the end of the "permit year"). Alternatively, if the permittee elects to report based on its fiscal year, the first reporting year will last until the end of the fiscal year following the end of the first permit year. If the permittee elects to report based on the calendar year, then the first reporting year will last until December 31, 2014.

Subsequent calendar years will begin at the beginning of the first reporting year (which will vary based on the previous paragraph) and last for one (1) year. The MS4 operator shall also make a copy of the annual report readily available for review by TCEQ personnel upon request. The report must include:

(a) The status of the compliance with permit conditions, an assessment of the appropriateness of the identified BMPs, progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals;

(b) A summary of the results of information collected and analyzed, during the reporting period, including monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP;

(c) If applicable, a summary of any activities taken to address the discharge to impaired waterbodies, including any sampling results and a summary of the small MS4s BMPs used to address the pollutant of concern;

(d) A summary of the stormwater activities the MS4 operator plans to undertake during the next reporting year;

(e) Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements;

(f) Description and schedule for implementation of additional BMP's that may be necessary, based on monitoring results, to ensure compliance with applicable TMDLs and implementations plans;

(g) Notice that the MS4 operator is relying on another government entity to satisfy some of its permit obligations (if applicable);

(h) The number of construction activities where the small MS4 is the operator and authorized under the 7th optional MCM, including the total number of acres disturbed; and

(i) The number of construction activities that occurred within the jurisdictional area of the small MS4 (as noticed to the permittee by the construction operator), and that were not authorized under the 7th MCM.

An annual report must be prepared whether or not the NOI and SWMP have been approved by the TCEQ. If the permittee has either not implemented the SWMP or not begun to implement the SWMP because it has not received approval of the NOI and SWMP, then the annual report may include that information.

If permittees share a common SWMP, they shall contribute to and submit a single system-wide report. Each permittee shall sign and certify the annual report in accordance with 30 TAC § 305.128 (relating to Signatories to Reports).

The annual report must be submitted with the appropriate TCEQ reporting forms if available, or as otherwise approved by TCEQ.

The annual report must be submitted to the following address:

Texas Commission on Environmental Quality
Stormwater & Pretreatment Team; MC - 148
P.O. Box 13087
Austin, Texas 78711-3087

A copy of the annual report must also be submitted to the TCEQ Regional Office that serves the area of the regulated small MS4.

If available, electronic submission of annual reports is encouraged. The Federal Waste Reduction Act and the Government Paperwork Elimination Act encourages governmental agencies to use electronic submission. See the TCEQ website at, www.tceq.texas.gov for additional information and instructions.

Part V. Standard Permit Conditions

A. The permittee has a duty to comply with all permit conditions. Failure to comply with any permit condition is a violation of the general permit and statutes under which it was issued, and is grounds for enforcement action, for terminating coverage under this general permit, or for requiring a discharger to apply for and obtain an individual TPDES permit.

B. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

C. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

D. Authorization under this general permit may be suspended or revoked for cause. Filing a notice of planned changes or anticipated non-compliance by the permittee does not stay any permit condition. The permittee shall furnish to the executive director, upon request and within a reasonable timeframe, any information necessary for the executive director to determine whether cause exists for modifying, revoking, suspending, reissuing or terminating authorization under this general permit. Additionally, the permittee shall provide to the executive director, upon request, copies of all records that the permittee shall maintain as a condition of this general permit.

E. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used to achieve compliance with the conditions of this permit and with the condition of the permittee's SWMP. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed only when the operation is necessary to achieve compliance with the conditions of this permit.

F. Inspection and entry shall be allowed under the TWC Chapters 26-28, Health and Safety Code §§ 361.032-361.033 and 361.037, and 40 CFR §122.41(i). The statement in TWC § 26.014 that commission entry of a facility shall occur according to an establishment's rules and regulations concerning safety, internal security, and fire protection is not grounds for denial or restriction of entry to any part of the facility or site, but merely describes the commission's duty to observe appropriate rules and regulations during an inspection.

G. The discharger is subject to administrative, civil, and criminal penalties, as applicable, under the TWC, Chapters 26, 27, and 28, and the Texas Health and Safety Code, Chapter 361 for violations including but not limited to the following:

1. Negligently or knowingly violating CWA, §§ 301, 302, 303, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under CWA, § 402; and

2. Knowingly making any false statement, representation, or certification in any record or other document submitted or required to be maintained under a permit, including monitoring reports or reports of compliance or noncompliance.

H. All reports and other information requested by or submitted to the executive director must be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

I. Authorization under this general permit does not convey property or water rights of any sort and does not grant any exclusive privilege.

J. The permittee shall implement its SWMP on any new areas under its jurisdiction that are located in a UA or that are designated by the TCEQ. Implementation of the SWMP in these areas is required the greater of three (3) years from acquiring the new area, or five (5) years from the date of initial permit coverage.

Part VI. Authorization for Municipal Construction Activities – Applicable only if the 7th Optional MCM is selected

The MS4 operator may obtain authorization under TPDES CGP, TXR150000 to discharge stormwater runoff from each construction activity performed by the MS4 operator that results in a land disturbance of one (1) acre or more of land or less than one (1) acre of land, if the construction activity is part of a larger common plan of development or sale that would disturb one acre or more. Alternatively, the MS4 operator may develop the SWMP to include the optional seventh (7^{th}) stormwater MCM listed in Part III.B.7 of this general permit if the eligibility requirements in Part VI.A. below are met. If an MS4 operator decides to utilize this MCM, then the MS4 operator must include this MCM in its SWMP submitted with the NOI or submit an NOC notifying the executive director of the addition of this MCM to its SWMP. The MS4 operator must identify the geographic area or boundary where the construction activities will be conducted under the provisions of this general permit. If the permittee meets the terms and requirements of this general permit, then discharges from these construction activities may be authorized under this general permit as long as they occur within the regulated geographic area of the small MS4. An MS4 operator may utilize this MCM over additional portions of their small MS4 if those areas are also in compliance with all MCMs listed in this general permit. Even if an MS4 operator has developed this optional seventh stormwater MCM, the MS4 operator may apply under TPDES CGP TXR150000 for authorization for particular municipal construction activities including those activities that occur during periods of low potential for erosion (for which no SWP3 must be developed).

Section A. Eligible Construction Sites

Discharges from construction activities within the regulated area where the MS4 operator meets the definition of construction site operator are eligible for authorization under this general permit. Discharges from construction activities outside of the regulated area, where the MS4 operator meets the definition of construction site operator, are only eligible for authorization under this general permit in those areas where the MS4 operator meets the requirements of Parts III.B.1. through III.B.6 of this general permit, related to MCMs.

Section B. Discharges Eligible for Authorization

1. Stormwater Associated with Construction Activity

Discharges of stormwater runoff from small and large construction activities may be authorized under this general permit.

2. Discharges of Stormwater Associated with Construction Support Activities

Discharges of stormwater runoff from construction support activities, including concrete batch plants, asphalt batch plants, equipment staging areas, material storage yards, material borrow areas, and excavated material disposal areas may be authorized under this general permit provided:

(a) The activity is located within a one-mile distance from the boundary of the permitted construction site and directly supports the construction activity;

(b) A SWP3 is developed according to the provisions of this general permit and includes appropriate controls and measures to control sediment and erosion and discharge of pollutants in stormwater runoff from the supporting construction activity site;

(c) The construction support activity either does not operate beyond the completion date of the construction activity or obtains separate TPDES authorization for discharges as required; and

(d) Discharge of stormwater from concrete production facilities must meet the requirements in Section E below

3. Non-Stormwater Discharges

The following non-stormwater discharges from construction sites authorized under this general permit are also eligible for authorization under this MCM:

(a) Discharges from emergency fire fighting activities (fire fighting activities do not include washing of trucks, run-off water from training activities, test water from fire suppression systems, and similar activities);

(b) Uncontaminated fire hydrant flushings (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life), which include flushings from systems that utilize potable water, surface water, or groundwater that does not contain additional pollutants (uncontaminated fire hydrant flushings do not include systems utilizing reclaimed wastewater as a source water);

(c) Water from the routine external washing of vehicles, the external portion of buildings or structures, and pavement, where detergents and soaps are not used and where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed; and if local state, or federal regulations are applicable, the materials are removed according to those regulations), and where the purpose is to remove mud, dirt, or dust;

(d) Uncontaminated water used to control dust;

(e) Potable water sources including waterline flushings (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);

(f) Uncontaminated air conditioning condensate; and

(g) Uncontaminated ground water or spring water, including foundation or footing drains where flows are not contaminated with industrial materials such as solvents.

4. Other Permitted Discharges

Any discharge authorized under a separate TPDES or TCEQ permit may be combined with discharges from construction sites operated by the small MS4, provided the discharge complies with the associated permit.

Section C. Limitations on Permit Coverage

Discharges that occur after construction activities have been completed, and after the construction site and any supporting activity site have undergone final stabilization, are not eligible for coverage under Part VI of the general permit.

Section D. Stormwater Pollution Prevention Plan (SWP3) Requirements

Operators of municipal construction activities that qualify for coverage under this general permit and that discharge stormwater associated with construction activities into surface water in the state must:

1. Develop a SWP3 according to the provisions of this general permit that covers the entire site and begin implementation of that plan prior to commencing construction activities;
2. Post a signed copy of a TCEQ approved site notice in a location at the construction site where it is readily available for viewing prior to commencing construction activities and maintain the notice in that location until completion of the construction activity and final stabilization of the site;
3. Ensure the project specifications allow or provide that adequate BMPs may be developed and modified as necessary to meet the requirements of this general permit and the SWP3;
4. Ensure all contractors are aware of the SWP3 requirements, are aware that municipal personnel are responsible for the day-to-day operations of the SWP3, and who to contact concerning SWP3 requirements; and
5. Ensure that the SWP3 identifies the municipal personnel responsible for implementation of control measures described in the plan.

Section E. Stormwater Runoff from Concrete Batch Plants

Discharges of stormwater runoff from concrete batch plants at regulated construction sites may be authorized under the provisions of this general permit provided that the following requirements are met for concrete batch plant(s) authorized under this permit. If discharges of stormwater runoff from concrete batch plants are not covered under this general permit, then discharges must be authorized under an alternative general permit or an individual permit. This permit does not authorize the discharge or land disposal of any wastewater from concrete batch plants at regulated construction sites. Authorization for these wastes must be obtained under an individual permit or an alternative general permit.

1. Benchmark Sampling Requirements

(a) Operators of concrete batch plants authorized under this section must sample the stormwater runoff from the concrete batch plants according to the requirements of this section of the general permit, and must conduct evaluations of the effectiveness of the SWP3 based on the following benchmark monitoring values:

Table 1. Benchmark Monitoring

Benchmark Parameters	Benchmark Value	Sampling Frequency	Sample Type
Oil and Grease	15 mg/L	1/quarter (*1)(*2)	Grab (*3)

Benchmark Parameters	**Benchmark Value**	**Sampling Frequency**	**Sample Type**
Total Suspended Solids	100 mg/L	1/quarter (*1)(*2)	Grab (*3)
pH	6.0-9.0 S.U.	1/quarter (*1)(*2)	Grab (*3)
Total Iron	1.3 mg/L	1/quarter (*1)(*2)	Grab (*3)

(*1) When discharge occurs. Sampling is required within the first 30 minutes of discharge. If it is not practicable to take the sample, or to complete the sampling, within the first 30 minutes, sampling must be completed within the first hour of discharge. If sampling is not completed within the first 30 minutes of discharge, the reason must be documented and attached to all required reports and records of the sampling activity.

(*2) Sampling must be conducted at least once during each of the following periods. The first sample must be collected during the first full quarter that a stormwater discharge occurs from a concrete batch plant authorized under this general permit.

January through March
April through June
July through September
October through December

For projects lasting less than one full quarter, a minimum of one sample shall be collected, provided that a stormwater discharge occurred at least once following submission of the NOI.

(*3) A grab sample shall be collected from the stormwater discharge resulting from a storm event that is at least 0.1 inches of measured precipitation that occurs at least 72 hours from the previously measurable storm event. The sample shall be collected downstream of the concrete batch plant, and where the discharge exits any BMPs utilized to handle the runoff from the batch plant, prior to commingling with any other water authorized under this general permit.

(b) The permittee shall compare the results of sample analyses to the benchmark values above, and must include this comparison in the overall assessment of the SWP3's effectiveness. Analytical results that exceed a benchmark value are not a violation of this permit, as these values are not numeric effluent limitations. Results of analyses are indicators that modifications of the SWP3 should be assessed and may be necessary to protect water quality. The operator must investigate the cause for each exceedance and must document the results of this investigation in the SWP3 by the end of the quarter following the sampling event.

The operator's investigation must identify the following:

(1) Any additional potential sources of pollution, such as spills that might have occurred;

(2) Necessary revisions to good housekeeping measures that are part of the SWP3;

(3) Additional BMPs, including a schedule to install or implement the BMPs; and

(4) Other parts of the SWP3 that may require revisions in order to meet the goal of the benchmark values.

Background concentrations of specific pollutants may also be considered during the investigation. If the operator is able to relate the cause of the exceedance to background concentrations, then subsequent exceedances of benchmark values for that pollutant may be resolved by referencing earlier findings in the SWP3. Background concentrations may be identified by laboratory analyses of samples of stormwater run-on to the permitted facility, by laboratory analyses of samples of stormwater run-off from adjacent non-industrial areas, or by identifying the pollutant is a naturally occurring material in soils at the site.

2. BMPs and SWP3 Requirements

Minimum Stormwater Pollution Prevention Plan (SWP3) Requirements - The following are required in addition to other SWP3 requirements listed in this section:

(a) Description of Potential Pollutant Sources - The SWP3 must provide a description of potential sources (activities and materials) that may reasonably be expected to affect the quality of stormwater discharges associated with concrete batch plants authorized under this permit. The SWP3 must describe practices that that will be used to reduce the pollutants in these discharges to assure compliance with this general permit, including the protection of water quality, and must ensure the implementation of these practices. The following must be developed, at a minimum, in support of developing this description:

(1) Drainage – The site map must include the following information:

a. The location of all outfalls for stormwater discharges associated with concrete batch plants that are authorized under this permit;

b. A depiction of the drainage area and the direction of flow to the outfall(s);

c. Structural controls used within the drainage area(s);

d. The locations of the following areas associated with concrete batch plants that are exposed to precipitation: vehicle and equipment maintenance activities (including fueling, repair, and storage areas for vehicles and equipment scheduled for maintenance); areas used for the treatment, storage, or disposal of wastes listed in the TPDES Construction General Permit TXR150000; liquid storage tanks; material processing and storage areas; and loading and unloading areas; and

e. The locations of the following: any bag house or other dust control device(s); recycle or sedimentation pond, clarifier or other device used for the treatment of facility wastewater (including the areas that drain to the treatment device); areas with significant materials; and areas where major spills or leaks have occurred.

(2) Inventory of Exposed Materials – A list of materials handled at the concrete batch plant that may be exposed to stormwater and that have a potential to affect the quality of stormwater discharges associated with concrete batch plants that are authorized under this general permit.

(3) Spills and Leaks - A list of significant spills and leaks of toxic or hazardous pollutants that occurred in areas exposed to stormwater and that drain to

stormwater outfalls associated with concrete batch plants authorized under this general permit must be developed, maintained, and updated.

(4) Sampling Data - A summary of existing stormwater discharge sampling data must be maintained, if available.

(b) Measures and Controls - The SWP3 must include a description of management controls to regulate pollutants identified in the SWP3's "Description of Potential Pollutant Sources" from Part VI.E.2.(a) of this permit, and a schedule for implementation of the measures and controls. This must include, at a minimum:

(1) Good Housekeeping - Good housekeeping measures must be developed and implemented in the area(s) associated with concrete batch plants.

a. Operators must prevent or minimize the discharge of spilled cement, aggregate (including sand or gravel), settled dust, or other significant materials from paved portions of the site that are exposed to stormwater.

Measures used to minimize the presence of these materials may include regular sweeping or other equivalent practices. These practices must be conducted at a frequency that is determined based on consideration of the amount of industrial activity occurring in the area and frequency of precipitation, and shall occur at least once per week when cement or aggregate is being handled or otherwise processed in the area.

b. Operators must prevent the exposure of fine granular solids, such as cement, to stormwater. Where practicable, these materials must be stored in enclosed silos, hoppers or buildings, in covered areas, or under covering.

(2) Spill Prevention and Response Procedures - Areas where potential spills that can contribute pollutants to stormwater runoff, and the drainage areas from these locations, must be identified in the SWP3. Where appropriate, the SWP3 must specify material handling procedures, storage requirements, and use of equipment. Procedures for cleaning up spills must be identified in the SWP3 and made available to the appropriate personnel.

(3) Inspections - Qualified facility personnel (for example, a person or persons with knowledge of this general permit, the concrete batch plant, and the SWP3 related to the concrete batch plant(s) for the site) must be identified to inspect designated equipment and areas of the facility specified in the SWP3. The inspection frequency must be specified in the SWP3 based upon a consideration of the level of concrete production at the facility, but must be a minimum of once per month while the facility is in operation. The inspection must take place while the facility is in operation and must, at a minimum, include all areas that are exposed to stormwater at the site, including material handling areas, above ground storage tanks, hoppers or silos, dust collection or containment systems, truck wash down and equipment cleaning areas. Follow-up procedures must be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections must be maintained and be made readily available for inspection upon request.

(4) Employee Training - An employee training program must be developed to educate personnel responsible for implementing any component of the SWP3, or personnel otherwise responsible for stormwater pollution prevention, with the provisions of the SWP3. The frequency of training must be documented in the SWP3, and at a

minimum, must consist of one training prior to the initiation of operation of the concrete batch plant.

(5) Record Keeping and Internal Reporting Procedures - A description of spills and similar incidents, plus additional information that is obtained regarding the quality and quantity of stormwater discharges, must be included in the SWP3. Inspection and maintenance activities must be documented and records of those inspection and maintenance activities must be incorporated in the SWP3.

(6) Management of Runoff - The SWP3 shall contain a narrative consideration for reducing the volume of runoff from concrete batch plants by diverting runoff or otherwise managing runoff, including use of infiltration, detention ponds, retention ponds, or reusing of runoff.

(c) Comprehensive Compliance Evaluation – At least once per year, one (1) or more qualified personnel (for example, a person or persons with knowledge of this general permit, the concrete batch plant, and the SWP3 related to the concrete batch plant(s) for the site) shall conduct a compliance evaluation of the plant. The evaluation must include the following:

(1) Visual examination of all areas draining stormwater associated with regulated concrete batch plants for evidence of, or the potential for, pollutants entering the drainage system. These include but are not limited to: cleaning areas, material handling areas, above ground storage tanks, hoppers or silos, dust collection or containment systems, and truck wash down and equipment cleaning areas. Measures implemented to reduce pollutants in runoff (including structural controls and implementation of management practices) must be evaluated to determine if they are effective and if they are implemented in accordance with the terms of this permit and with the permittee's SWP3. The operator shall conduct a visual inspection of equipment needed to implement the SWP3, such as spill response equipment.

(2) Based on the results of the evaluation, the following must be revised as appropriate within two (2) weeks of the evaluation: the description of potential pollutant sources identified in the SWP3 (as required in Part VI.E.2(a), "Description of Potential Pollutant Sources"); and pollution prevention measures and controls identified in the SWP3 (as required in Part VI.E.2.(b) "Measures and Controls"). The revisions may include a schedule for implementing the necessary changes.

(3) The permittee shall prepare and include in the SWP3 a report summarizing the scope of the evaluation, the personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the SWP3, and actions taken in response to the findings of the evaluation. The report must identify any incidents of noncompliance. Where the report does not identify incidences of noncompliance, the report must contain a statement that the evaluation did not identify any incidence(s), and the report must be signed according to 30 TAC Section 305.128, relating to Signatories to Reports.

(4) The Comprehensive Compliance Evaluation may substitute for one of the required inspections delineated in Part VI.E.2.(b)(3) of this general permit.

3. Prohibition of Wastewater Discharges

Wastewater discharges associated with concrete production including wastewater disposal by land application are not authorized under this general permit. These wastewater

discharges must be authorized under an alternative TCEQ water quality permit or otherwise disposed of in an authorized manner. Discharges of concrete truck washout at construction sites may be authorized if conducted in accordance with the requirements of Part VI of this general permit.

4. Concrete Truck Wash Out Requirements

This general permit authorizes the wash out of concrete trucks at construction sites regulated under this section of the general permit, provided the following requirements are met. Authorization is limited to the land disposal of wash out water from concrete trucks. Any other direct discharge of concrete production waste water must be authorized under a separate TCEQ general permit or individual permit.

(a) Direct discharge of concrete truck wash out water to surface water in the state, including discharge to storm sewers, is prohibited by this general permit.

(b) Concrete truck wash out water shall be discharged to areas at the construction site where structural controls have been established to prevent direct discharge to surface waters or to areas that have a minimal slope that allow infiltration and filtering of wash out water to prevent direct discharge to surface waters. Structural controls may consist of temporary berms, temporary shallow pits, temporary storage tanks with slow rate release, or other reasonable measures to prevent runoff from the construction site.

(c) Wash out of concrete trucks during rainfall events shall be minimized. The direct discharge of concrete truck wash out water is prohibited at all times, and the operator shall insure that its BMPs are sufficient to prevent the discharge of concrete truck washout as the result of rain.

(d) The discharge of wash out water shall not cause or contribute to groundwater contamination.

(e) If a SWP3 is required to be implemented, the SWP3 shall include concrete wash out areas on the associated map.

Section F. Effective Date of Coverage

Construction activities may not commence under this section until the MS4 NOI and SWMP are approved in writing by the TCEQ. Following approval of the NOI and SWMP, operators of construction activities eligible for coverage under this general permit are authorized to discharge stormwater associated with construction activity immediately upon posting the signed construction site notice required under this section.

Section G. Deadlines for SWP3 Preparation and Compliance

The SWP3 must:

1. Be completed and initially implemented prior to commencing construction activities that result in soil disturbance;

2. Be updated as necessary to reflect the changing conditions of new contractors, new areas of responsibility, and changes in best management practices; and

3. Provide for compliance with the terms and conditions of this general permit.

Section H. Plan Review and Making Plans Available

The SWP3 must be retained on-site at the construction site or made readily available at the time of an on-site inspection to: the executive director; a federal, state, or local agency approving sediment and erosion plans, grading plans, or stormwater management plans; and to local government officials.

Section I. Keeping Plans Current

The permittee shall amend the SWP3 whenever either of the following occurs:

1. There is a change in design, construction, operation, or maintenance that has a significant effect on the discharge of pollutants and that has not been previously addressed in the SWP3; or
2. Results of inspections or investigations by site operators, authorized TCEQ personnel, or a federal, state or local agency approving sediment and erosion plans indicate the SWP3 is proving ineffective in eliminating or significantly minimizing pollutants in discharges authorized under this general permit.

Section J. Contents of SWP3

The SWP3 must include, at a minimum, the information described in this section.

1. Site Description

A site description, or project description, which must include:

(a) A description of the nature of the construction activity, potential pollutants and sources;

(b) A description of the intended schedule or sequence of major activities that will disturb soils for major portions of the site;

(c) The number of acres of the entire construction site property and the total number of acres of the site where construction activities will occur, including off-site material storage areas, overburden and stockpiles of dirt, and borrow areas;

(d) Data describing the soil type or the quality of any discharge from the site;

(e) A map showing the general location of the site (e.g. a portion of a city or county map);

(f) A detailed site map indicating the following:

(1) Drainage patterns and approximate slopes anticipated after major grading activities;

(2) Areas where soil disturbance will occur;

(3) Locations of all major structural controls either planned or in place;

(4) Locations where temporary or permanent stabilization practices are expected to be used;

(5) Locations of construction support activities, including off-site activities that are authorized under the permittee's NOI, including material, waste, borrow, fill, or equipment storage areas;

(6) Surface waters (including wetlands) either at, adjacent, or in close proximity to the site;

(7) Locations where stormwater discharges from the site directly to a surface water body or a MS4; and

(8) Vehicle wash areas.

(g) The location and description of asphalt plants and concrete plants (if any) providing support to the construction site and that are also authorized under this general permit;

(h) The name of receiving waters at or near the site that will be disturbed or that will receive discharges from disturbed areas of the project; and

(i) A copy of Part VI of this TPDES general permit.

2. Structural and non-structural controls

The SWP3 must describe the structural and the non-structural controls (best management practices) that will be used to minimize pollution in runoff. The description must identify the general timing or sequence for implementation and the party responsible for implementation. At a minimum, the description must include the following components:

(a) Erosion and Sediment Controls

(1) Erosion and sediment controls must be designed to retain sediment on-site to the maximum extent practicable with consideration for local topography and rainfall.

(2) Control measures must be properly selected, installed, and maintained according to the manufacturer's or designer's specifications. If periodic inspections or other information indicates a control has been used incorrectly, or that the control is performing inadequately, the operator must replace or modify the control.

(3) Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50 per cent.

(4) If sediment escapes the site, accumulations must be removed at a frequency to minimize further negative effects and, whenever feasible, prior to the next rain event.

(5) Controls must be developed to limit offsite transport of litter, construction debris, and construction materials by stormwater runoff.

3. Stabilization Practices

The SWP3 must include a description of interim and permanent stabilization practices for the site, including a schedule of when the practices will be implemented. Site plans should ensure that existing vegetation is preserved where possible.

(a) Stabilization practices may include but are not limited to: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of existing trees and vegetation and other similar measures.

(b) The following records must be maintained and either attached to or referenced in the SWP3 and made readily available upon request to the parties in Part VI.H. of this general permit:

(1) The dates when major grading activities occur;

(2) The dates when construction activities temporarily or permanently cease on a portion of the site; and

(3) The dates when stabilization measures are initiated.

(c) Stabilization measures must be initiated immediately in portions of the site where construction activities have temporarily or permanently ceased, and will not resume for a period exceeding 14 calendar days, except as provided in (1) and (2) below.

(1) Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practicable.

(2) Where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practicable. These conditions exist in arid areas, semiarid areas, and areas experiencing drought conditions.

4. Structural Control Practices

The SWP3 must include a description of any structural control practices used to divert flows away from exposed soils, to limit the contact of runoff with disturbed areas, or to lessen the off-site transport of eroded soils.

(a) Sites with a drainage area of ten (10) or more acres:

(1) A sediment basin is required, where feasible, for a common drainage location that serves an area with ten (10) or more acres disturbed at one time. A sedimentation basin may be temporary or permanent, but must provide sufficient storage to contain a calculated volume of runoff from a 2-year, 24-hour storm from each disturbed acre drained. When calculating the volume of runoff from a 2-year, 24-hour storm event, it is not required to include the flows from off-site areas and flow from on-site areas that are either undisturbed or have already undergone final stabilization, if these flows are diverted around both the disturbed areas of the site and the sediment basin. Capacity calculations must be included in the SWP3.

(2) Where rainfall data is not available or a calculation cannot be performed the sedimentation basin must provide at least 3,600 cubic feet of storage per acre drained until the site reaches final stabilization.

(3) If a sedimentation basin is not feasible, then the permittee shall provide equivalent control measures until the site reaches final stabilization. In determining whether installing a sediment basin is feasible, the permittee may consider factors such as site soils, slope, available area, public safety, precipitation pattern, site geometry, site vegetation, infiltration capacity, geotechnical factors, depth to groundwater, and other similar considerations. The permittee shall document the reason that the sediment basins are not feasible, and shall utilize equivalent control measures, which may include a series of smaller sediment basins.

(4) Perimeter Controls – At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries of the construction area, and for those side slope boundaries deemed appropriate as dictated by individual site conditions.

(b) Controls for sites with drainage areas less than ten acres:

(1) Sediment traps and sediment basins may be used to control solids in stormwater runoff for drainage locations serving less than ten (10) acres. At a minimum, silt

fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries of the construction area, and for those side slope boundaries deemed appropriate as dictated by individual site conditions.

(2) Alternatively, a sediment basin that provides storage for a calculated volume of runoff from a 2-year, 24-hour storm from each disturbed acre drained may be utilized. Where rainfall data is not available or a calculation cannot be performed, a temporary or permanent sediment basin providing 3,600 cubic feet of storage per acre drained may be provided. If a calculation is performed, then the calculation shall be included in the SWP3.

5. Permanent Stormwater Controls

A description of any measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed must be included in the SWP3. Permittees are only responsible for the installation and maintenance of stormwater management measures prior to final stabilization of the site.

6. Other Controls

(a) Off-site vehicle tracking of sediments and the generation of dust must be minimized.

(b) The SWP3 must include a description of construction and waste materials expected to be stored on-site and a description of controls to reduce pollutants from these materials.

(c) The SWP3 must include a description of pollutant sources from areas other than construction (including stormwater discharges from dedicated asphalt plants and dedicated concrete plants), and a description of controls and measures that will be implemented at those sites to minimize pollutant discharges.

7. Effluent Limits

The federal Effluent Limitations Guidelines at 40 CFR Part 450.21(a) apply to all regulated construction activities under this 7th optional MCM, where the small MS4 is the operator.

8. Approved State and Local Plans

(a) The permittee shall ensure the SWP3 is consistent with requirements specified in applicable sediment and erosion site plans or site permits, or stormwater management site plans or site permits approved by federal, state, or local officials.

(b) SWP3s must be updated as necessary to remain consistent with any changes applicable to protecting surface water resources in sediment erosion site plans or site permits, or stormwater management site plans or site permits approved by state or local official for whom the permittee receives written notice.

9. Maintenance

All erosion and sediment control measures and other protective measures identified in the SWP3 must be maintained in effective operating condition. If through inspections the permittee determines that BMPs are not operating effectively, maintenance must be performed before the next anticipated storm event or as necessary to maintain the continued effectiveness of stormwater controls. If maintenance prior to the next anticipated

storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable.

10. Inspections of Controls

(a) Personnel provided by the permittee must inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, discharge locations, and structural controls for evidence of, or the potential for, pollutants entering the drainage system. Personnel conducting these inspections must be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWP3 for the site. Sediment and erosion control measures identified in the SWP3 must be inspected to ensure that they are operating correctly. Locations where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking. Inspections must be conducted at least once every 14 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater.

Where sites have been finally or temporarily stabilized or where runoff is unlikely due to winter conditions (e.g. site is covered with snow, ice, or frozen ground exists), inspections must be conducted at least once every month. In arid or semi-arid, or drought stricken areas, inspections must be conducted at least once every month and within 24 hours after the end of a storm event of 0.5 inches or greater

As an alternative to the above-described inspection schedule of once every 14 calendar days and within 24 hours of a storm event of 0.5 inches or greater, the SWP3 may be developed to require that these inspections will occur at least once every seven (7) calendar days. If this alternative schedule is developed, then the inspection must occur on a specifically defined day, regardless of whether or not there has been a rainfall event since the previous inspection. The inspections may occur on either schedule provided that the SWP3 reflects the current schedule and that any changes to the schedule are conducted in accordance with the following provisions: the schedule may be changed a maximum of one time each month, the schedule change must be implemented at the beginning of a calendar month, and the reason for the schedule change must be documented in the SWP3 (e.g., end of “dry” season and beginning of “wet” season).

(b) Utility line installation, pipeline construction, and other examples of long, narrow, linear construction activities may provide inspection personnel with limited access to the areas described in Part VI.J.10(a) above. Inspection of these areas could require that vehicles compromise temporarily or even permanently stabilized areas, cause additional disturbance of soils, and increase the potential for erosion. In these circumstances, controls must be inspected at least once every 14 calendar days and within 24 hours of the end of a storm event of 0.5 inches, but representative inspections may be performed. For representative inspections, personnel must inspect controls along the construction site for 0.25 mile above and below each access point where a roadway, undisturbed right-of-way, or other similar feature intersects the construction site and allows access to the areas described in Part VI.J.10.(a) above. The conditions of the controls along each inspected 0.25 mile portion may be considered as representative of the condition of controls along that reach extending from the end of the 0.25 mile portion to either the end of the next 0.25 mile inspected portion, or to the end of the project, whichever occurs first.

As an alternative to the above-described inspection schedule of once every 14 calendar days and within 24 hours of a storm event of 0.5 inches or greater, the SWP3 may be

developed to require that these inspections will occur at least once every seven (7) calendar days. If this alternative schedule is developed, the inspection must occur on a specifically defined day, regardless of whether or not there has been a rainfall event since the previous inspection. The inspections may occur on either schedule provided that the SWP3 reflects the current schedule and that any changes to the schedule are conducted in accordance with the following provisions: the schedule may be changed a maximum of one time each month, the schedule change must be implemented at the beginning of a calendar month, and the reason for the schedule change must be documented in the SWP3 (e.g., end of "dry" season and beginning of "wet" season).

(c) In the event of flooding or other uncontrollable situations which prohibit access to the inspection sites, inspections must be conducted as soon as access is practicable.

(d) The SWP3 must be modified based on the results of inspections, as necessary, to better control pollutants in runoff. Revisions to the SWP3 must be completed within seven (7) calendar days following the inspection. If existing BMPs are modified or if additional BMPs are necessary, an implementation schedule must be described in the SWP3 and wherever possible those changes implemented before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable.

(e) A report summarizing the scope of the inspection, the date(s) of the inspection, and major observations relating to the implementation of the SWP3 must be made and retained as part of the SWP3. Major observations should include: The locations of discharges of sediment or other pollutants from the site; locations of BMPs that need to be maintained; locations of BMPs that failed to operate as designed or proved inadequate for a particular location; and locations where additional BMPs are needed.

Actions taken as a result of inspections must be described within, and retained as a part of, the SWP3. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the facility or site is in compliance with the SWP3 and this permit. The report must be signed by the person and in the manner required by 30 TAC §305.128 (relating to Signatories to Reports).

(f) The names and qualifications of personnel making the inspections for the permittee may be documented once in the SWP3 rather than being included in each report.

11. Pollution Prevention Measures

The SWP3 must identify and ensure the implementation of appropriate pollution prevention measures for all eligible non-stormwater components of the discharge.

Section K. Additional Retention of Records

The permittee shall retain the following records for a minimum period of three (3) years from the date that final stabilization has been achieved on all portions of the site. Records include:

1. A copy of the SWP3; and
2. All reports and actions required by this section, including copies of the construction site notices.

APPENDIX C
STORMWATER MANAGER'S GUIDE

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C.1 National Pollutant Discharge Elimination System (NPDES) Phase II Rule – NAVFACSE MS4 Permits

The Clean Water Act was amended to implement a two-phase approach to address pollution from urban/suburban stormwater runoff. The first phase (implemented in 1990) was aimed at large and medium municipal separate storm sewer systems (MS4s). Typically this included systems serving populations of 100,000 or more, industrial activities, and construction activities that disturbed five acres or more of land. Phase II expanded NPDES compliance requirements to other small urbanized areas e.g. military bases, prisons, state universities and construction activities smaller than five acres. NPDES permitting authorities (state offices) were required to issue small MS4s and construction general permits by December 2002.

The Navy EPR Web Guidebook often refers to MS4 projects as Phase II NPDES projects. Initially there were clear distinctions between Phase I and Phase II MS4 general permits. Since 2011, in accordance with guidance from EPA, many states modified or are modifying their Phase II MS4 permits and minimizing the difference between Phase I and Phase II permits.

Although an installation may not trigger the permit required urban population quota, if the city around the installation meets the urbanization quota, the state can declare the installation stormwater system as an MS4. In Florida, regardless of the discharge points (e.g. directly to open water) the state can require the military installation to carry an MS4 permit. Five installations in the NAVFAC SE region hold MS4 permits:

- Naval Station Mayport, Florida
- Naval Air Station Jacksonville, Florida
- Naval Air Station Pensacola, Florida
- Naval Construction Battalion Center Gulfport, Mississippi
- Naval Air Station Corpus Christi, Texas

Each installation has held a permit in its respective state since the state issued its initial Phase II MS4 permit. As of 2013, all states are in or about to enter what is considered as the 3rd cycle of the MS4 permit. The cycle refers to the 3rd five-year MS4 permit issued by the state.

C.2 Stormwater Management Program (SWMP)

The Municipal Separate Storm Sewer System (MS4) permit requires each permittee to develop a Storm Water Management Program. The SWMP identifies what activities the permittee is implementing and maintaining in order to protect pollutants from entering the MS4 and thus state or federal waters.

The MS4 permit specifies what will be included in the SWMP, along with reporting and record keeping requirements related to the SWMP.

The SWMP specifies how the MS4 implements the required minimal control measures that target public education and involvement, construction site runoff, post construction site management, and pollution prevention implementation in order to minimize pollution of storm water runoff.

The SWMP is approved by the state in conjunction with the Notice of Intent, requesting permit coverage. The SWMP serves as the agreement between the MS4 owner and the state on how the installation complies with the permit requirements.

The nature of the MS4 permit and its goals dictate that the SWMP is not just an Environmental Division program. It is important to involve Public Affairs, Housing, Moral Welfare and Recreation and especially any offices who work with construction projects e.g., Public Works Department, Facilities Engineering and Acquisition Division.

The SWMP is a five year program correlated to the five year permit. The SWMP lists best management practices (BMPs) for each minimal control measure and provides the details of how, when and where the program elements are implemented. The SWMP is the "action plan" for the installation storm water covered by the MS4 permit

Permitting authorities (your state office) must be notified if there are changes made to the SWMP during the permit period. Nonsubstantive changes that do not require notification include: change in personnel implementing the SWMP, clarification of existing BMPs, typographical corrections, and administrative comments, and or replacing a BMP with an equivalent BMP. Significant changes should be made via Notice of Change or documented on the annual report. Your permit will clarify which action is applicable.

C.3 Impaired Water Body

MS4s generally discharge into a near-by surface water. Therefore, the MS4 permit is significant as the guardian to minimized further pollution to already designated impaired waters. An impaired water body is one that does not meet the state Surface Water Quality Standards and is listed in the EPA approved 303(d) List for each state. The Clean Water Act, Sections 303(d) and 303(a) require a list that identifies surface water bodies in or bordering a state that do not meet water quality standards.

Pollutants are measured so that a Total Maximum Daily Load (TMDL) is established for each parameter contributing to the exceedence of water quality criteria. The TMDL is designed to limit the amount of each pollutant entering the water in the impaired segment of the waterway.

Once a waterway is listed in the 303(d) list, it is considered to be an impaired waterway. It will be listed as a "Category 5"and subcategorized for additional information, review of standards or TMDLs established or pending.

An adopted TMDL identifies and established specific water quality standards for the pollutants of concerns in the impaired waterway. The goal of the TMDL is to minimize and eliminate the pollutant in the waterway so that applicable water quality standards can be achieved.

C.4 MS4 Permit/SWMP Assistance

If you have questions about your permit or need assistance with your SWMP please contact:

NAVFAC SE, Air and Water Section
Section Supervisor: Ms. Mary Oxendine,
904-542-6902 (DSN 542)
mary.oxendine@navy.mil