



# CITY OF KYLE

STORMWATER MANAGEMENT PLAN (SWMP)  
**Permit No.: TXR040490**

Permit Term: January 2019 – January 2024

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## **1 INTRODUCTION**

The City of Kyle is subject to the requirements of the Texas Commission on Environmental Quality (TCEQ) Texas Pollutant Discharge Elimination System (TPDES) Small Municipal Separate Storm Sewer System (MS4) General Permit (GP), TXR040000, issued January 24, 2019, which sets the requirements and conditions for stormwater discharges from small MS4s surface water in the state. The City previously developed and implemented a stormwater management program (SWMP) to comply with the original TPDES Small MS4 GP issued in December 13, 2013 because Kyle is located within the Austin urbanized areas, as defined by the 2010 U.S. Decennial Census. This document describes the City's stormwater management program to protect water quality from stormwater runoff throughout the City and serves as the City's documentation of intended compliance with the current TPDES Small MS4 GP. Based on the 2010 U.S. Decennial Census, the City had a population of 28,257. As a result, the City is classified as a Level 2 Small MS4 under the new TCEQ Small MS4 GP. Four levels of small MS4 are identified in the Small MS4 GP, with increasing responsibilities at each level.

This SWMP documents 34 Best Management Practices (BMPs) that the City already has implemented or will implement over the next five years to meet the minimum requirements of the Small MS4 GP. The City has identified these BMPs as being cost-effective approaches to protect water quality, recognizing the importance of protecting our natural and financial resources. A five-year implementation, maintenance, and documentation approach is contained within this SWMP in Appendix A.

### **Background**

Stormwater affects the quality of water in urban lakes, rivers, neighborhood creeks, and storm drains. Pollutants (e.g., pesticides, oil, detergents, and bacteria) present on urban land and impermeable surfaces (e.g., streets and parking lots) can be transported by stormwater runoff into stormwater drainage systems. These drainage systems, both natural and man-made, convey the stormwater runoff away from urban areas and into nearby water bodies.

In order to protect water quality, it is necessary to identify the types and sources of pollution and implement plans to protect the City's water resources. Historically, waters have been protected through state and federal regulation of "point-sources" or end-of-pipe sources of pollution. Over time, it has become more evident that overland runoff sources of pollution, such as urban stormwater runoff, can create serious problems in waterways and impact the community's quality of life.

### **Stormwater Regulations**

Under the requirements of the Clean Water Act, the U.S. Environmental Protection Agency (EPA) is required to protect the water quality for natural waters throughout the country. The EPA established the National Pollutant Discharge Elimination System (NPDES) program to identify sources of water pollution and work to reduce or eliminate the pollutants from waters of the U.S. The EPA has delegated responsibility for the NPDES program in Texas to the TCEQ, who administers the Texas Pollutant Discharge Elimination System (TPDES). In addition to issuing discharge permits to traditional “point sources,” such as municipal wastewater treatment plants and industrial wastewater discharges, the TCEQ is also responsible for minimizing pollution from other sources, such as stormwater runoff from construction sites, industrial facilities, and some stormwater drainage systems. For construction sites and industrial facilities, the TCEQ issued requirements for minimizing stormwater pollution within general permits specific to those industries, which typically require development and implementation of site-specific stormwater pollution prevention plans.

#### TPDES Small Municipal Separate Storm Sewer System (MS4) General Permit (TXR040000)

In most areas of the country, storm drainage systems are separate from sanitary sewer systems and are thereby classified as “separate storm sewer systems.” Separate storm sewer systems include ditches, curbs, gutters, storm sewers, and similar means of collecting or conveying runoff that do not connect with a wastewater collection system or treatment facility before discharging into water bodies. A “municipal separate storm sewer system” (MS4) is a system owned or operated by a public agency like a city, flood control district, county, or state agency.

In 1999, the EPA issued NPDES regulations to protect stormwater quality in small MS4s (known as “Phase II” MS4s) within urbanized areas. The TCEQ, who was delegated the responsibility of implementing the stormwater quality regulations, finalized the initial Small MS4 GP (officially named Texas Pollutant Discharge Elimination System General Permit No. TXR040000) on August 13, 2007. This TPDES permit, commonly called the “Small MS4 General Permit,” originally had a five-year term but was extended administratively for more than a year while TCEQ negotiated with EPA over the renewed permit conditions. The permit has been renewed twice with the most recent Small MS4 GP becoming effective on January 24, 2019 and has a five-year permit term. The City of Kyle is one of several hundred cities, counties, and other public entities subject to TCEQ’s Small MS4 GP.

#### TPDES Construction General Permit (CPG)

The TCEQ regulates stormwater discharges from most construction activity through the TPDES CGP No.

TXR150000. For construction sites generally disturbing one acre or more, a stormwater pollution prevention plan (SWPPP) must be developed and site controls must be installed, such as silt fence, inlet protection, and a stabilized construction site entrance, to minimize the discharge of sediment and other pollutants from the construction site. When construction is complete and the site is re-vegetated or otherwise stabilized, the control measures may be removed.

Small MS4 cities may, as designated by ordinance, inspect and enforce construction sites for compliance according to the requirements of the TCEQ construction general permit, including inspection for properly installed and maintained erosion control measures. Many small MS4 cities reference the TCEQ construction general permit in the city ordinance for compliance consistency.

#### TPDES Multi-Sector General Permit (MSGP) for Industrial Activity

The TCEQ regulates stormwater discharges from developed sites in certain industrial classifications through TPDES MSGP No. TXR050000. Sites operating in certain identified industrial sectors are required to develop, implement and maintain a stormwater pollution prevention plan (SWPPP) for operations at the facility. These industrial sectors have been identified by EPA and TCEQ as high potential sources of significant stormwater pollutants, and as a result, the implementation of BMPs are required to protect water quality from stormwater runoff pollution.

Cities that are small MS4s often have their own facilities subject to the industrial stormwater permit. Municipal landfills, wastewater treatment plants, and municipal airports are common city facilities that must comply with the TPDES MSGP.

#### **Permit Applicability and Coverage**

The City has updated this SWMP to comply with the requirements of the renewed Small MS4 GP. This permit applies to operators of publicly-owned storm sewer systems in urbanized areas in Texas and authorizes the City to discharge stormwater runoff from their stormwater drainage system. The U.S. Census Bureau defines the urbanized areas based on a population density of 1,000 people per square mile and a total population of at least 50,000, irrespective of political boundaries. Urbanized areas represent densely developed areas and encompass residential, commercial, and other non- residential urban land uses. The City is located within the Austin 2010 Decennial U.S. Census Urbanized Area as shown in **Figure**

**1.**

The SWMP encompasses the City's MS4 area to the city limit boundaries. The SWMP includes best

management practices (BMPs) that will be implemented by the City to reduce stormwater pollution to the maximum extent practicable (MEP), as regulations require. This document serves as the City's SWMP.

### **The City of Kyle**

The City of Kyle, Texas was incorporated in 1928 and is located in Hays County in Central Texas. Kyle is bordered to the south by the City of San Marcos and to the northwest by Mountain City. With an annexation in 2016, the city now covers 30.33 square miles consisting of 19,410 acres of land, 188 acres of waters or waterways, and contains approximately 139 miles of public streets. According to the 2010 census, Kyle's population was 28,016 with approximately 11,000 residential homes and 320 commercial businesses in the city.

The City is operated under a Council-Manager form of government and governed by an elected mayor and six city council members. The city council and planning and zoning commission regulate development within the city. The City has a public works department, planning department, engineering department, and building department, all of which play a vital role in Kyle's development.

### **Other Entities Assisting with the SWMP Preparation**

The City is utilizing its own professional staff in the preparation of this SWMP; there are no co-permittees included in the development and implementation of this SWMP.

## 2 WATER QUALITY

### Overview of Water Quality Assessments in Texas

Stormwater affects the quality of water in urban lakes, rivers, neighborhood creeks, and storm drains. These drainage ways, both natural and man-made, effectively remove stormwater runoff from urban areas. In Texas, storm drain systems are separate from sewage systems, and typically untreated stormwater runoff flows directly to the nearest bodies of water. Any pollutants such as pesticides, oil, detergents, and bacteria that are present on urban land, streets, or other surfaces are also carried along.

In order to protect water quality, it is necessary to identify the types and sources of pollution and implement plans to protect the city's water resources. Historically, waters have been protected through State and Federal regulation of point-sources or end-of-pipe sources of pollution. Over time, it has become more evident that non-point sources of pollution, such as urban stormwater runoff, can create problems in water ways and impact the community's quality of life.

The TCEQ is charged through federal mandate with protecting the quality of waters within Texas. The TCEQ's approach to this mandate includes measuring water quality at locations across the state, determining if the quality in streams, lakes, and creeks is acceptable, and implementing plans to clean up water bodies that are negatively impacted.

The Texas Surface Water Quality Standards are rules designed to establish goals for water quality throughout the state and provide a basis for regulatory programs to attain those goals. Water quality standards serve to signal a situation where water quality may be inadequate to meet the use or uses of a particular water body. Five general categories for water use, known as "designated uses", are defined in Texas:

- general
- aquatic life use
- recreation
- public water supply
- fish consumption

Major surface water bodies in the state have been classified with site-specific designated uses in but many smaller water bodies have not been classified and do not have site-specific designated uses.

Because it would be impractical to test every water body for all possible pollutants, assessments of water quality in Texas are performed by evaluating indicators of water quality. Indicators are an indirect measure of the health or quality of a particular part of the aquatic system. Some indicators, such as the health of fish communities, are tied to specific designated uses, while others, such as nutrients, are not. Some of the most common indicators used by TCEQ to determine the quality of water bodies include bacteria, dissolved oxygen, dissolved solids, metals, and organic substances.

If the indicator data published in the *Texas Integrated Report of Surface Water Quality* (Integrated Report) reveal that water quality is inadequate to meet the goals of the water body's designated use, the TCEQ identifies the water body as an impaired water in a section of the Integrated Report called the 303(d) list. The 303(d) list is required by the federal Clean Water Act and is submitted to EPA for approval. Water bodies added to the list are subject to a Total Maximum Daily Load (TMDL) assessment. The TMDL is an intensive assessment of the root cause of poor water quality and serves as the basis for the development of a plan by local stakeholders to remediate pollution sources.

Water bodies with impairments not suitable for inclusion on the 303(d) list are identified in a section of the Integrated Report called the Index of Water Quality Impairments. Additionally, water bodies with concerns for non-attainment or screening levels are identified within the Integrated Report and can be useful to evaluate potential sources of impairments.

## **Water Quality of Kyle**

The Small MS4 GP requires that the classified segments that first receive the city's stormwater discharges, either directly or indirectly, be identified. Stormwater discharges from the City eventually reach the following classified segment(s):

- Plum Creek (Segment 1810\_03)
- Lower Blanco River (Segment 1809)
- Upper Blanco River (Segment 1813)

The classified segment(s) listed above, as well as unclassified water bodies that receive stormwater discharges before reaching the classified segment, are displayed within Figure 2 and summarized below in Table 1.

### Plum Creek (Segment 1810\_03)

Plum Creek, Segment 1810\_03 is in the eastern limits of Kyle, was first listed in the 2004 303(d) list for

water quality impairment due to elevated concentrations of bacteria, specifically E. coli. The category of Plum Creek was changed from 5c to 4b in the 2010 TCEQ Integrated Report due to the presence of a Watershed Protection Plan. This recategorization indicated that progress was being made on the water body's impairments through an alternative to a TMDL, namely a Watershed Protection Plan, which was adopted by the Plum Creek Watershed Partnership in 2008.

#### Lower Blanco River (Segment 1809)

The Lower Blanco River, Segment 1809, is 15 miles long and extends from the confluence of the Blanco River and San Marcos Rivers, just outside the City of San Marcos, upstream to the Lime Kiln Road crossing in Hays County. The 85 square mile drainage area of the lower Blanco River is primarily located on the Edwards Plateau but enters the Blackland Prairies on the eastern edge of Hays County. This segment consists of limestone substrate with occasional stony and clay loams. The changes in elevation as the river crosses the Balcones fault increase the stream flow but there are also several slow-moving stretches throughout the segment. The water is primarily used for aquatic life, contact recreation and fish consumption. The land in the urban basin is used for farming, ranching, recreation, light manufacturing and urban development. The urban development of this segment is increasing at a rapid pace due to the river's location in the middle of the IH 35 corridor. The 2014 Texas Water Quality Inventory Report and 303(d) list did not list any impairments or concerns listed for Segment 1809.

#### Upper Blanco River (Segment 1813)

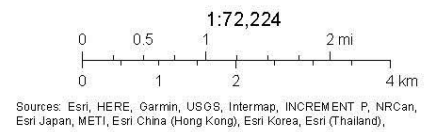
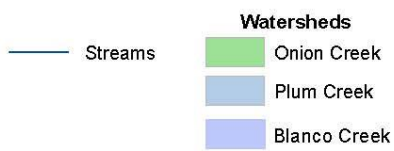
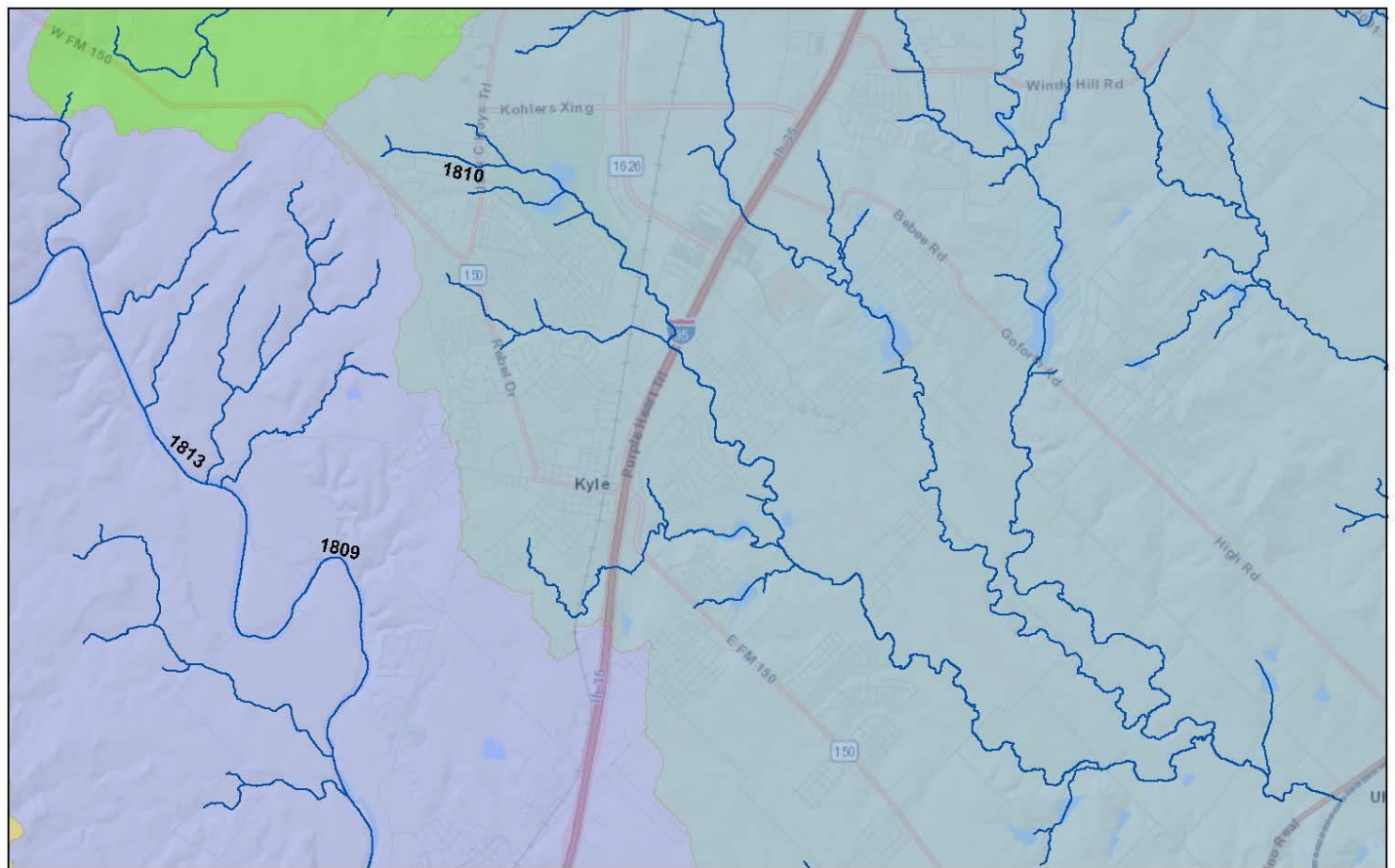
The Upper Blanco River extends for 71 miles from Lime Kiln Road in Hays County, through Blanco County, to the spring-fed headwaters in northern Kendall County. Segment 1813 is spring-fed stream, on the Edwards Plateau. The majority of the segment exhibits limestone substrate with occasional gravel, silt, or clay strata. The limestone is known to contain gypsum deposits, which can contribute to high sulfate concentrations in groundwater. The stream has historically displayed exceptional water quality and usually exhibits extremely clear water. In general, most water quality concerns in this segment of the Blanco River are linked to highly variable stream flow. The upper portion of the Blanco River is known to go dry during prolonged periods of drought and the banks and substrate of the entire segment exhibit significant scouring during extended wet periods. The 2014 Texas Water Quality Inventory Report and 303(d) list did not list any impairments or concerns listed for Segment 1809.

**Table 1 Water Quality Summary for Receiving Waters**

| <b>Classified Water Body Watershed</b> | <b>Receiving Water Body Name</b>  | <b>Receives Stormwater Directly or Indirectly</b> | <b>303(d) List</b> | <b>TMDL/I-Plan or WPP</b>          | <b>Listed Water Quality Concerns</b> |
|--|-----------------------------------|---|--------------------|------------------------------------|--------------------------------------|
| Plum Creek (Segment 1810_30)           | Plum Creek (Segment 1810_03)      | Directly  | No                 | Approved Watershed Protection Plan | Bacteria                             |
| Lower Blanco River (Segment 1809)      | Lower Blanco River (Segment 1809) | Indirectly  | No                 | No                                 | N/A                                  |
| Upper Blanco River (Segment 1813)      | Upper Blanco River (Segment 1813) | Indirectly  | No                 | No                                 | N/A                                  |

Source: TCEQ 2014 Texas Integrated Report of Surface Water Quality

**FIGURE 2**



### 3 SMALL MS4 GENERAL PERMIT OVERVIEW

Kyle is required to update this SWMP and describe specific actions that will be completed over a five-year period to reduce pollutants and protect the City's stormwater quality. This SWMP sets measurable goals and provides a schedule for the implementation of BMPs over the next five years. The Small MS4 GP defines MS4 operators into one of four categories, or “levels”, based on the population served within the 2010 U.S. Decennial Census Urbanized Area (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 de-annexing land. However, the level of a small MS4 will not change during the permit term based on population fluctuation. The four levels are described below:

#### Level 1

Operators of traditional small MS4s that serve a population of less than 10,000 within a UA.

#### 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.

#### Level 3

Operators of traditional small MS4s that serve a population of at least 40,000 but less than 100,000 within a UA.

#### 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. **Based on this definition, the City of Kyle is a Level 2 MS4.**

## **Minimum Control Measure Summary**

Various BMPs must be developed for each of the Minimum Control Measures (MCMs) that are expected to minimize or eliminate stormwater pollutants discharged into the storm drain system and provide water quality protection for receiving water bodies. Five MCMs are required for all cities and a sixth (6<sup>th</sup>) MCM is required only for cities with a population over 100,000. An optional seventh (7<sup>th</sup>) MCM to address municipal construction activities through their SWMP is available for use by the City but has not been selected for inclusion in this SWMP. Specific requirements according to the small MS4 level have been developed by the TCEQ for each MCM, with descriptions of the MCMs provided below.

### **1. Public Education, Outreach and Public 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) If the permittee has a public website, the permittee shall post its SWMP and the annual reports required under Part IV.B.2. or a summary of the annual report on the permittee's website. The SWMP must be posted no later than 30 days after the approval date, and the annual report no later than 30 days after the due date.
- (4) All permittees shall annually review and update the SWMP and MCM implementation procedures required by Part III.A.2., as necessary. 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.
- (5) 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) Consider using public input (for example, the opportunity for public comment, or public meetings) in the implementation of the program;
- (2) 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;
- (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 or illicit discharge.
  - (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 annually 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; and
- 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

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 the appropriate TCEQ Regional Office according to Part III.A.3.b.

c. Corrective Action to Eliminate Illicit Discharge

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, in response to complaints, and shall conduct follow-up inspections to ensure that corrective measures have been implemented by the responsible party.

The permittee shall develop written procedures describing the basis for conducting inspections in response to complaints and conducting follow-up inspections.

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

***(Not applicable for the City of Kyle at this time)***

*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:*

*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.*

**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 program 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 annually 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 as soon as practicable, but no more than 14 calendar days after the initiation of soil stabilization measures. In arid, semiarid, and drought-stricken areas, where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures must be employed.

The permittee shall develop written procedures that describes initiating and completing stabilization measures for construction sites.

- 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 where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures must be employed and described in the written procedure required in item (2)b. above. 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;

- d. Soaps or solvents used in vehicle and equipment washing; and
- 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 TPDES 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 inspection of sites operated by the permittee or its contractors and that are located in the permittee's regulated area.

- a. The permittee shall conduct inspections 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 and implement updated 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; and
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 appropriate TCEQ Regional Office 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*

***(Not applicable for the City of Kyle at this time)***

*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:*

*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 must be made by submittal of a copy of an NOI or a small construction site notice, as applicable. 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 and 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 annually 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*

***(Not applicable to the City of Kyle)***

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

*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.*

*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**

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 permittees 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. The inventory must 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.(b)(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 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, including such areas as pothole repair, pavement marking, sealing, and re-paving;
  - (ii) Bridge maintenance, including 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 to ensure they are working properly. The permittee shall develop written procedures that describes frequency of inspections and how they will be conducted. 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 by

the permittee and consistent with maintaining the effectiveness of the BMP. The permittee shall develop written procedures that define the frequency of inspections and how they will be conducted.

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

***(Not applicable to the City of Kyle at this time)***

*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 at least one of the following: 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 kept up to date.*

*(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 must be sheltered from exposure to stormwater.*
- 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) that 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.*

**6. Industrial Stormwater Sources**

**Not applicable to the City of Kyle - Level 4 Small MS4s only**

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

**Not applicable to the City of Kyle**

## **Impaired Waters and Total Maximum Daily Load Summary**

In addition to the MCM requirements, the renewed permit describes required actions if a regulated MS4 discharges a pollutant of concern to an impaired water body. Not all regulated MS4s discharge into an impaired water body, and thus these requirements do not apply to all regulated entities. If a regulated MS4 discharges a pollutant of concern to an impaired water body with an established total maximum daily load (TMDL), the regulated MS4 must be consistent with the approved TMDL in order to be eligible for coverage by the Small MS4 GP. The TMDL process includes an intensive assessment of the root cause of poor water quality, a determination of the maximum pollutant loading allowable while still meeting water quality use standards, and development of a plan by local stakeholders to remediate pollution sources.

For MS4s discharging a known pollutant of concern into 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. 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 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, the permittee shall submit an NOC to amend the SWMP in accordance with Part II.E.6 to include any additional BMPs to address the pollutant(s) of concern. This requirement does not apply to BMPs implemented to address impaired waters that are listed after permit authorization pursuant to Part II.D.4.

### **(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.

### **Discharges to the Edwards Aquifer Recharge**

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.

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, TX 78753

(512) 339-2929

The City of Kyle does not own or maintain any Edwards Aquifer structural controls at this time. An NOC will be submitted if this changes during the permit term.

### **Program Development Summary**

Existing City programs and activities that protect the City's stormwater quality were identified and are included in this SWMP as applicable.

An implementation schedule and measurable goals to track the implementation progress have been developed for each of the BMPs in this SWMP. Each BMP was selected based on the projected effectiveness in protecting stormwater quality and its ability to aid in compliance with permit conditions.

The implementation schedule and measurable goals were selected so new stormwater program activities will be steadily phased in over the permit term. The City will review the implementation progress each year and modify the SWMP as necessary. Annual updates will be provided to the TCEQ.

The MCM BMPs (Appendix A) are designed to summarize all activities within the SWMP. It identifies each BMP with activity descriptions, how it meets specific permit requirements, responsible City departments, measurable goals, implementation schedules, and documentation needs over the five-year permit period.

#### **4 COMPLIANCE APPROACH**

The City of Kyle developed this SWMP to comply with TPDES requirements for stormwater discharges and certain allowable non-stormwater discharges. The SWMP is intended to aid in the City's efforts to reduce stormwater pollutants from the City's storm drainage system to the maximum extent practicable as required by the Small MS4 GP.

The SWMP describes specific actions that will be taken over the five-year permit term covered by the 2019 Small MS4 GP to reduce pollutants and protect the City's stormwater quality. The specific activities to be implemented are referred to as BMPs. Various BMPs have been developed for each of the required MCMs. The SWMP also sets measurable goals and provides a schedule for the implementation of the BMPs. Implementation of the selected BMPs is expected to result in a reduction of pollutants discharged into City's creeks, streams, ponds and lakes. The MCM BMPs (Appendix A) has been developed to demonstrate compliance with measurable goals, implementation and maintenance schedules, and documentation needs for the BMPs the City has implemented or will implement.

##### **Best Management Practice Selection Process**

The City assessed existing program elements set forth during the previous permit term, modified as necessary, as well as assessed possible new elements to continue reducing the discharge of pollutants from the MS4 to the MEP. As a result, BMPs described in the previous permit were kept, modified, or replaced, as necessary.

##### Assessment of BMPs

The City of Kyle had historically implemented various BMPs intended to protect stormwater quality. An important aspect of developing an effective, compliant, and cost efficient SWMP is to account for the existing programs that are efficiently benefitting water quality. A successful SWMP involves modifying or eliminating inefficient or ineffective existing BMPs as well as assessing new elements, as necessary, to continue reducing the discharge of pollutants from the MS4 to the MEP. Specific costs for the BMPs were not identified during the development of this SWMP; however, BMPs with significant investment requirements and relatively minor stormwater quality benefit were not selected.

##### **Selection Process for Measurable Goals and Implementation Schedule**

Specific measurable goals have been developed for each BMP. In accordance with the permit requirements, measurable goals have been developed to evaluate the success of the City's SWMP toward reaching the goal of protecting water quality and reducing pollutants to the MEP. Goals were selected with a consideration toward achieving steady implementation, assessing the ability to measure and track progress, and working within budgetary constraints.

### **Measurable Goal Evaluation Process**

The selected measurable goals for each BMP will be evaluated on an annual basis. Implementation of each BMP will be tracked during each permit year in order to provide the progress of each BMP at achieving the measurable goals, as well as an assessment of the effectiveness of the BMP.

Multiple City departments will be responsible for implementing portions of the SWMP and for tracking and evaluating the City's success in meeting the program's measurable goals. Each City department with activities or responsibilities that may impact stormwater quality will provide the City staff with documentation showing the progress towards meeting the annual measurable goals for each BMP to the person designated for SWMP coordination.

### **Targeted Controls for Impaired Water Bodies**

As summarized in Section 2 and Table 1, there are direct and indirect discharges of stormwater to Plum Creek (Segment 1803\_03), which is an impaired water body for bacteria. Kyle is an active member of the Plum Creek Watershed Partnership. Based on a Bacterial Source Tracking, DNA analysis, study conducted by the Plum Creek Watershed Partnership, feral hogs contribute the majority of E. coli to Plum Creek, Segment 1803\_03 with avian wildlife contributing the next highest concentrations. In recent years, Kyle has focused on wastewater treatment and collection upgrades as well as pet waste outreach. The City will continue these efforts as well as try to identify potential significant sources and develop and implement additional BMPs, as needed, for feral hogs and other sources. Since Kyle is largely urbanized, feral hog populations have not been identified at this time.

### **Legal Authority and Regulatory Mechanism**

The City, in accordance with the general permit conditions of Part III, Section A.3, will review and revise, if needed, its relevant ordinance(s) or other regulatory mechanism(s), or adopt a new ordinance(s) or other regulatory mechanism(s) that provide the City with adequate legal authority to control pollutant discharges into and from our MS4 in order to meet the requirements of this general permit. The City's legal authority, City of Kyle Code of Ordinances Part I, Chapter 50, Article

IX Stormwater Regulations, addresses 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.

#### **Assessment of Allowable Non-Stormwater Discharges**

In accordance with the requirements of the Small MS4 GP, the following non-stormwater discharges will be assessed in order to determine whether they are known to be significant contributors of pollutants to the City's water bodies:

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.

Non-stormwater discharges from the list above must be evaluated by the City to determine if any known, significant, water quality impacts were created as a result of the discharges. Evaluation of allowable non-stormwater discharges will be conducted as part of the illicit discharge inspection BMP identified in Appendix A.

## **5 RECORDKEEPING AND REPORTING**

### **Recordkeeping**

The City will maintain all records, a copy of the Small MS4 GP and all data used to complete the Notice of Intent (NOI) for this permit, for a period of at least three years, or for the remainder of the term of the Small MS4 GP, whichever is longer. A current, up-to-date copy of the SWMP and a copy of the general permit requirements will be maintained at the City of Kyle City Hall.

The City will make the compiled records, including the NOI and SWMP, available for public viewing at the City of Kyle City Hall. The SWMP will be available for viewing during normal office hours, and available supporting documents will be able to be viewed within ten working days following the written request from the public. Other records will be provided in accordance with the Texas Public Information Act. Reasonable charges, in accordance with Texas law, may be levied by the City for researching and preparing any requested materials.

### **Annual Report**

The City will submit a concise annual report to the Executive Director of the TCEQ within 90 days of the end of each reporting year. The annual report will also be submitted to the TCEQ Austin Region Office. The City of Kyle has chosen reporting based on the City's fiscal year. The City will maintain copies of the annual reports at the City of Kyle City Hall and on the City's Stormwater Program webpage at [www.kylestormwater.com](http://www.kylestormwater.com).

The annual report will summarize the City's action to address the requirements listed in the Small MS4 GP. Generally, the annual report will summarize the stormwater-related activities for the previous year, evaluate the success of each BMP and targeted controls relative to their measurable goals, and provide plans for the upcoming year, including changes to the SWMP. Changes may include replacement of BMPs or other changes allowed by the permit.

### **Stormwater Program Updates**

Kyle's stormwater program may be changed/updated by the City at any time. 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 by submittal and approval of a notice of change (NOC) unless the changes are non-substantial and do

not change terms and conditions in the SWMP. Changes may be made as follows:

(a) Changes that do not require an NOC

The following changes may be implemented without submitting an NOC form. The changes may be made immediately following revision of the SWMP:

- (1) Adding (but not subtracting or replacing) components, controls, or requirements to the SWMP;
- (2) Adding areas such as by annexing land, or otherwise acquire additional land that expands the boundary of the MS4, or subtracting areas, such as by de-annexing lands;
- (3) Adding impaired water bodies that are identified pursuant to Part II.D.4; and
- (4) Minor modifications to the SWMP that include administrative or non-substantial changes as follows:
  - 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 non-substantive comments.

(b) Changes that require an NOC

Modifications to the SWMP that include the following changes require submittal of an NOC along with those portions of the SWMP that are applicable to the change(s). The changes may be implemented once the permittee receives approval of the NOC.

- (1) Replacing 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 would be considered a replacement). The SWMP update must include documentation of the following:
  - a. An analysis of why the BMP is ineffective or infeasible (including cost prohibitive);
  - b. Expectations of the effectiveness of the replacement BMP; and
  - c. An analysis of why the replacement BMP is expected to achieve the goals of the BMP to be replaced;
- (2) Requirement for more frequent monitoring or reporting by the permittee; and
- (3) Interim compliance date change in a schedule of compliance, provided the new date is not more than 120 days after the date specified in the existing permit and does not interfere with attainment of the final compliance date requirement.

(c) Changes that require an NOC and Public Notice

All other modifications that changes permit terms and conditions must be submitted on an NOC form along with those portions of the SWMP that are applicable to the changes. The changes may only be implemented following public notice and written approval by TCEQ.

- (1) After receiving an NOC, the TCEQ evaluates if the requested change(s) can be approved and might request additional information from the permittee during the review process. If the request can be approved, the MS4 is required to post the notice of the Executive Director's preliminary determination of the NOC and the revised terms of the SWMP on the MS4's website. If the MS4 does not have a website, the MS4 must notify TCEQ and TCEQ will post the notice on the TCEQ website at <https://www.tceq.texas.gov/>.
- (2) The public comment period begins on the first day the notice is posted on the MS4 or the TCEQ website and ends 30 days later. If the 30th calendar day falls on a date that TCEQ is not open for business, then the public comment period is extended until 5 pm on the next TCEQ business day. If there is a decision to hold a public meeting, then the public comment period will continue until the public meeting has been held. The public may submit comments regarding the proposed changes to the TCEQ Water Quality Division.
- (3) The Executive Director will hold a public meeting (equivalent to a "public hearing" as required by 40 CFR §122.28(d)(2)(ii)) if it is determined there is significant public interest. The Executive Director will post a notice of the public meeting on the TCEQ website at <https://www.tceq.texas.gov/>. The notice of a public meeting will be posted at least 30 days before the meeting and will be held in the county where the MS4 is located or primarily located. TCEQ staff will facilitate the meeting and provide a sign in sheet for attendees to register their names and addresses. The public meeting held under this general permit is not an evidentiary proceeding. If a public meeting is held, the comment period will end at the conclusion of the public meeting.
- (4) The Executive Director, after considering public comment, shall incorporate the NOC changes into the SWMP. Once the revised terms are incorporated into the SWMP, the Executive Director will notify the permittee and the public on the revised terms and conditions of the SWMP.

## **Appendix A**

### **MCM BMPs**

**Stormwater Management Program**  
**MCM 1 - Public Education, Outreach and Involvement**

**BMP No. 1 - Stormwater Management Page on City Website**

The City maintains an Engineering webpage within the existing city website. A new stormwater section was added to the site that specifically addresses stormwater quality issues. The site contains information related to stormwater run-off pollution impacts, public education on stormwater pollution, general stormwater management details and frequently asked questions. The city also purchased the following domain which links directly to this website: [www.kylestormwater.com](http://www.kylestormwater.com)

Another feature of this website is a contact page that can be used by members of the community seeking to report stormwater polluters. More information for this element can be found in BMP No. 12 - Stormwater Hotline.

| BMP No. | Description of BMP                                   | Responsible Department   | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019   | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020   | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021   | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022   | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023   |
|---------|--|--|--|--|--|--|--|
| 1       | Construct Stormwater Management Page on City Website | <ul style="list-style-type: none"> <li>SWMP Admin</li> <li>Communications</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> <li>Report any updates or changes during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> <li>Report any updates or changes during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> <li>Report any updates or changes during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> <li>Report any updates or changes during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> <li>Report any updates or changes during each fiscal year on the City's annual report</li> </ul> |

## Stormwater Management Program

### MCM 1 - Public Education, Outreach and Involvement

#### BMP No. 2 - Stormwater Outreach

The City will provide outreach information detailing the impacts of polluted stormwater run-off on water quality, hazards associated with illegal discharges and improper disposal of waste as well as ways to minimize their impact on stormwater quality. Reasonable efforts will be made to distribute the information to all constituents within the city.

| BMP No. | Description of BMP  | Responsible Department  | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019  | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020  | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021  | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022  | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023  |
|---------|---------------------|---|---|---|---|---|---|
| 2       | Stormwater Outreach | <ul style="list-style-type: none"><li>• SWMP Admin</li><li>• Communications</li></ul> | <ul style="list-style-type: none"><li>• Utilize and distribute TCEQ stormwater outreach materials, or any other stormwater outreach materials, during events or web announcements throughout the City's fiscal year</li><li>• Track the amount of materials distributed and/or the number of attendees and report the information on the City's annual report</li></ul> | <ul style="list-style-type: none"><li>• Utilize and distribute TCEQ stormwater outreach materials, or any other stormwater outreach materials, during events or web announcements throughout the City's fiscal year</li><li>• Track the amount of materials distributed and/or the number of attendees and report the information on the City's annual report</li></ul> | <ul style="list-style-type: none"><li>• Utilize and distribute TCEQ stormwater outreach materials, or any other stormwater outreach materials, during events or web announcements throughout the City's fiscal year</li><li>• Track the amount of materials distributed and/or the number of attendees and report the information on the City's annual report</li></ul> | <ul style="list-style-type: none"><li>• Utilize and distribute TCEQ stormwater outreach materials, or any other stormwater outreach materials, during events or web announcements throughout the City's fiscal year</li><li>• Track the amount of materials distributed and/or the number of attendees and report the information on the City's annual report</li></ul> | <ul style="list-style-type: none"><li>• Utilize and distribute TCEQ stormwater outreach materials, or any other stormwater outreach materials, during events or web announcements throughout the City's fiscal year</li><li>• Track the amount of materials distributed and/or the number of attendees and report the information on the City's annual report</li></ul> |

## MCM 1 - Public Education, Outreach and Involvement

### BMP No. 3 - Utility Bill Communication

The City will produce and distribute public awareness messages detailing the impacts of polluted stormwater run-off on water quality, hazards associated with illegal discharges, proper disposal of waste and ways to minimize impact on stormwater quality. Reasonable effort will be made to distribute the information to all customers within the city by using the public awareness message box on utility bills.

| BMP No. | Description of BMP         | Responsible Department   | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019  | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020  | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021  | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022  | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023  |
|---------|----------------------------|--|---|---|---|---|---|
| 3       | Utility Bill Communication | <ul style="list-style-type: none"> <li>SWMP Admin</li> <li>Communications</li> </ul> | <ul style="list-style-type: none"> <li>Develop information to be communicated</li> <li>Distribute the information through the utility bill at least once per year</li> <li>Report the distribution numbers on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Develop information to be communicated</li> <li>Distribute the information through the utility bill at least once per year</li> <li>Report the distribution numbers on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Develop information to be communicated</li> <li>Distribute the information through the utility bill at least once per year</li> <li>Report the distribution numbers on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Develop information to be communicated</li> <li>Distribute the information through the utility bill at least once per year</li> <li>Report the distribution numbers on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Develop information to be communicated</li> <li>Distribute the information through the utility bill at least once per year</li> <li>Report the distribution numbers on the City's annual report</li> </ul> |

## MCM 1 - Public Education, Outreach and Involvement

### BMP No. 4 - Storm Drain Inlet Markers

The City requires developers of new and redevelopment projects install the same storm drain markers adopted by the City. If the project is a public project, the developer must install the tri-fish designed inlet cover on all storm drain inlet boxes. If the project is private, then the developer must install the City adopted storm drain button on storm drain inlet boxes. Storm drain inlet buttons that need replacing will be done by the City's Public Works Department.

| BMP No. | Description of BMP        | Responsible Department   | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019  | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020  | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021  | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022  | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023  |
|---------|---------------------------|--|---|---|---|---|---|
| 4       | Storm Drain Inlet Markers | <ul style="list-style-type: none"><li>• SWMP Admin</li><li>• Communications</li><li>• Public Works</li></ul> | <ul style="list-style-type: none"><li>• Report the number of inlet covers and/or inlet buttons installed during the fiscal year on the City's annual report</li></ul> | <ul style="list-style-type: none"><li>• Report the number of inlet covers and/or inlet buttons installed during the fiscal year on the City's annual report</li></ul> | <ul style="list-style-type: none"><li>• Report the number of inlet covers and/or inlet buttons installed during the fiscal year on the City's annual report</li></ul> | <ul style="list-style-type: none"><li>• Report the number of inlet covers and/or inlet buttons installed during the fiscal year on the City's annual report</li></ul> | <ul style="list-style-type: none"><li>• Report the number of inlet covers and/or inlet buttons installed during the fiscal year on the City's annual report</li></ul> |

## MCM 1 - Public Education, Outreach and Involvement

### BMP No. 5 - General Education of City Employees, Elected and Appointed Officials and City Inspectors

The City will continue to develop and implement a training program for city employees, elected and appointed officials as well as city inspectors subject to the stormwater program. Training and/or training materials will be presented for the various municipal operations directed at preventing and reducing stormwater pollution. Elected and appointed officials will have training available, at least annually. The training will include components for: Construction Site Inspections, Good Housekeeping and Pollution Prevention and Illicit Discharge Detection and Elimination.

| BMP No. | Description of BMP   | Responsible Department   | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019  | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020  | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021  | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022  | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023  |
|---------|--|--|---|---|---|---|---|
| 5       | General Education of City Employees, Elected and Appointed Officials and City Inspectors | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Public Works</li> <li>• Planning Dept</li> <li>• Building Dept</li> </ul> | <ul style="list-style-type: none"> <li>• Encourage staff participation in the Capital Area Erosion Control Network (CAECN), or equivalent</li> <li>• Develop and provide general training courses to educate city employees, elected and appointed officials and city inspectors on stormwater management programs</li> <li>• Report annual training participation on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Encourage staff participation in the Capital Area Erosion Control Network (CAECN), or equivalent</li> <li>• Develop and provide general training courses to educate city employees, elected and appointed officials and city inspectors on stormwater management programs</li> <li>• Report annual training participation on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Encourage staff participation in the Capital Area Erosion Control Network (CAECN), or equivalent</li> <li>• Develop and provide general training courses to educate city employees, elected and appointed officials and city inspectors on stormwater management programs</li> <li>• Report annual training participation on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Encourage staff participation in the Capital Area Erosion Control Network (CAECN), or equivalent</li> <li>• Develop and provide general training courses to educate city employees, elected and appointed officials and city inspectors on stormwater management programs</li> <li>• Report annual training participation on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Encourage staff participation in the Capital Area Erosion Control Network (CAECN), or equivalent</li> <li>• Develop and provide general training courses to educate city employees, elected and appointed officials and city inspectors on stormwater management programs</li> <li>• Report annual training participation on the City's annual report</li> </ul> |

## Stormwater Management Program

## MCM 1 - Public Education, Outreach and Involvement

### BMP No. 6 - Preconstruction Developer/Builder/Engineer Education

The City has developed and implemented an overview of the City's MS4 Phase II permit requirements for our community to be discussed with entities responsible for the planning, implementation and construction of new development and redevelopment. Education focuses on preventing and reducing stormwater pollution. The City will address and discuss specific stormwater education as part of the development process conducted during plan reviews and preconstruction meetings.

| BMP No. | Description of BMP  | Responsible Department   | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019   | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020   | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021   | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022   | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023   |
|---------|---|--|--|--|--|--|--|
| 6       | Preconstruction Developer/Builder/Engineer Education and Training | <ul style="list-style-type: none"> <li>SWMP Admin</li> <li>Public Works</li> </ul> | <ul style="list-style-type: none"> <li>Educate builders, developers, and engineers on the City's erosion and sediment control requirements as well as any other applicable MS4 requirement during plan reviews and preconstruction meetings</li> <li>Report the number of preconstruction meetings held during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Educate builders, developers, and engineers on the City's erosion and sediment control requirements as well as any other applicable MS4 requirement during plan reviews and preconstruction meetings</li> <li>Report the number of preconstruction meetings held during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Educate builders, developers, and engineers on the City's erosion and sediment control requirements as well as any other applicable MS4 requirement during plan reviews and preconstruction meetings</li> <li>Report the number of preconstruction meetings held during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Educate builders, developers, and engineers on the City's erosion and sediment control requirements as well as any other applicable MS4 requirement during plan reviews and preconstruction meetings</li> <li>Report the number of preconstruction meetings held during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Educate builders, developers, and engineers on the City's erosion and sediment control requirements as well as any other applicable MS4 requirement during plan reviews and preconstruction meetings</li> <li>Report the number of preconstruction meetings held during each fiscal year on the City's annual report</li> </ul> |

## Stormwater Management Program MCM 1 - Public Education, Outreach and Involvement

### BMP No. 7 - School Education and Outreach

The City will continue school education and outreach on stormwater quality, either as a standalone lecture or participating in school career day events. The City may also partnership with other watershed groups to present lectures in public school classrooms.

| BMP No. | Description of BMP                                   | Responsible Department   | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019  | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020  | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021  | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022  | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023  |
|---------|--|--|---|---|---|---|---|
| 7       | Construct Stormwater Management Page on City Website | <ul style="list-style-type: none"> <li>SWMP Admin</li> <li>Engineering Dept</li> </ul> | <ul style="list-style-type: none"> <li>Conduct school education and outreach on stormwater related topics at least once per fiscal year</li> <li>Report the number of lectures conducted by city staff, career day events attended, or events conducted in partnership with other groups on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Conduct school education and outreach on stormwater related topics at least once per fiscal year</li> <li>Report the number of lectures conducted by city staff, career day events attended, or events conducted in partnership with other groups on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Conduct school education and outreach on stormwater related topics at least once per fiscal year</li> <li>Report the number of lectures conducted by city staff, career day events attended, or events conducted in partnership with other groups on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Conduct school education and outreach on stormwater related topics at least once per fiscal year</li> <li>Report the number of lectures conducted by city staff, career day events attended, or events conducted in partnership with other groups on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Conduct school education and outreach on stormwater related topics at least once per fiscal year</li> <li>Report the number of lectures conducted by city staff, career day events attended, or events conducted in partnership with other groups on the City's annual report</li> </ul> |

**Stormwater Management Program**  
**MCM 1 - Public Education, Outreach and Involvement**

**BMP No. 8 - Comply with State and Local Public Notice Requirements**

The City will comply with state and local public notice requirements as per the Small MS4 GP (TXR040000). Notice is required for adoption of new ordinances or revision of existing ordinances. Notice may also be required for public meetings regarding the SWMP. Effort will be made to have notification in several different outlets posted at City Hall, on the City's website, or through utility stuffer notices to reach as many different groups of people, as feasible.

| BMP No. | Description of BMP                                     | Responsible Department   | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019   | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020   | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021   | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022   | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023   |
|---------|--|--|--|--|--|--|--|
| 8       | Comply with State and Local Public Notice Requirements | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Communications</li> </ul> | <ul style="list-style-type: none"> <li>• Provide required notice of all public meetings and adoption of new or modified ordinances as part of the planning and implementation of the SWMP as applicable</li> <li>• Report the number of public meetings conducted during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Provide required notice of all public meetings and adoption of new or modified ordinances as part of the planning and implementation of the SWMP as applicable</li> <li>• Report the number of public meetings conducted during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Provide required notice of all public meetings and adoption of new or modified ordinances as part of the planning and implementation of the SWMP as applicable</li> <li>• Report the number of public meetings conducted during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Provide required notice of all public meetings and adoption of new or modified ordinances as part of the planning and implementation of the SWMP as applicable</li> <li>• Report the number of public meetings conducted during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Provide required notice of all public meetings and adoption of new or modified ordinances as part of the planning and implementation of the SWMP as applicable</li> <li>• Report the number of public meetings conducted during each fiscal year on the City's annual report</li> </ul> |

**Stormwater Management Program**  
**MCM 1 - Public Education, Outreach and Involvement**

**BMP No. 9 - Public Meeting(s)**

The City will hold at least one public meeting during the permit term to discuss and seek input on SWMP implementation measures, BMPs and stormwater management policies. This meeting(s) will serve two roles, providing an opportunity for public involvement as well as informing the public on stormwater quality. Meetings for Homeowners Association groups requesting stormwater education and outreach will also be conducted as requested. Notification of the public meeting(s) will be included on the City's website, in the City's weekly e-newsletter and/or in the local newspaper, if required.

| BMP No. | Description of BMP | Responsible Department   | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019   | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020   | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021   | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022   | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023   |
|---------|--------------------|--|--|--|--|--|--|
| 9       | Public Meeting(s)  | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Communications</li> </ul> | <ul style="list-style-type: none"> <li>• Report any public meeting held by the City regarding implementation measures, BMPs or stormwater management policies on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Report any public meeting held by the City regarding implementation measures, BMPs or stormwater management policies on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Report any public meeting held by the City regarding implementation measures, BMPs or stormwater management policies on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Report any public meeting held by the City regarding implementation measures, BMPs or stormwater management policies on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Report any public meeting held by the City regarding implementation measures, BMPs or stormwater management policies on the City's annual report</li> </ul> |

**Stormwater Management Program**  
**MCM 1 - Public Education, Outreach and Involvement**

**BMP No. 10 - Stormwater Hotline and Online Complaint Submission**

The City encourages the public to be involved in the reporting of potential stormwater quality violations. To facilitate public reporting, the has adopted the Capital Area Council of Government's (CAPCOG) 1-877-NO-DUMPS hotline number to report potential stormwater violations. In addition, the City created an online complaint reporting form on the City's stormwater website located at: [www.kylestormwater.com](http://www.kylestormwater.com).

| BMP No. | Description of BMP                                 | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019  | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020  | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021  | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022  | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023  |
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| 10      | Stormwater Hotline and Online Complaint Submission | • SWMP Admin           | <ul style="list-style-type: none"> <li>Investigate and document the number of complaints submitted either through the CAPCOG's 1-877-NO-DUMPS hotline or online submission</li> <li>Report the number of complaints received during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Investigate and document the number of complaints submitted either through the CAPCOG's 1-877-NO-DUMPS hotline or online submission</li> <li>Report the number of complaints received during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Investigate and document the number of complaints submitted either through the CAPCOG's 1-877-NO-DUMPS hotline or online submission</li> <li>Report the number of complaints received during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Investigate and document the number of complaints submitted either through the CAPCOG's 1-877-NO-DUMPS hotline or online submission</li> <li>Report the number of complaints received during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Investigate and document the number of complaints submitted either through the CAPCOG's 1-877-NO-DUMPS hotline or online submission</li> <li>Report the number of complaints received during each fiscal year on the City's annual report</li> </ul> |

**Stormwater Management Program**  
**MCM 1 - Public Education, Outreach and Involvement**

**BMP No. 11 - Bulk Waste Cleanup**

The City offers a once per year curbside bulk trash pickup for every household in partnership with the city's franchise sanitation service. The City needs to publicize this to increase the number of participants. If budgeting allows, the City will provide a roll off dumpster for a fixed period of time in strategic locations in the city to allow property owners to dispose of bulk trash, limbs and large items.

| BMP No. | Description of BMP | Responsible Department   | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019  | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020  | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021  | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022  | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023  |
|---------|--------------------|--|---|---|---|---|---|
| 11      | Bulk Waste Cleanup | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Communications</li> <li>• Public Works</li> <li>• Parks and Recreation Dept</li> <li>• Police Dept</li> </ul> | <ul style="list-style-type: none"> <li>• Continue Bulk Pickup through contract</li> <li>• Communicate to the public at least once per year about the ability to use one curbside bulk pick up per calendar year for free</li> <li>• If budget allows, deliver one roll off dumpster per year in strategic areas identified by staff to allow targeted bulk cleanup</li> <li>• Report outreach number(s) and amounts of trash collected at events during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue Bulk Pickup through contract</li> <li>• Communicate to the public at least once per year about the ability to use one curbside bulk pick up per calendar year for free</li> <li>• If budget allows, deliver one roll off dumpster per year in strategic areas identified by staff to allow targeted bulk cleanup</li> <li>• Report outreach number(s) and amounts of trash collected at events during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue Bulk Pickup through contract</li> <li>• Communicate to the public at least once per year about the ability to use one curbside bulk pick up per calendar year for free</li> <li>• If budget allows, deliver one roll off dumpster per year in strategic areas identified by staff to allow targeted bulk cleanup</li> <li>• Report outreach number(s) and amounts of trash collected at events during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue Bulk Pickup through contract</li> <li>• Communicate to the public at least once per year about the ability to use one curbside bulk pick up per calendar year for free</li> <li>• If budget allows, deliver one roll off dumpster per year in strategic areas identified by staff to allow targeted bulk cleanup</li> <li>• Report outreach number(s) and amounts of trash collected at events during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue Bulk Pickup through contract</li> <li>• Communicate to the public at least once per year about the ability to use one curbside bulk pick up per calendar year for free</li> <li>• If budget allows, deliver one roll off dumpster per year in strategic areas identified by staff to allow targeted bulk cleanup</li> <li>• Report outreach number(s) and amounts of trash collected at events during each fiscal year on the City's annual report</li> </ul> |

**Stormwater Management Program**  
**MCM 1 - Public Education, Outreach and Involvement**

**BMP No. 12 - Household Hazardous Waste (HHW) Collection**

The City encourages the public to dispose of household hazardous waste such as chemicals, pesticides, batteries and paint through a recycling effort available to all Hays County residents, hosted in the county seat. All Hays County residents can take household hazardous waste for recycling or disposal free of charge; however, this program is not widely known. The City will raise awareness of the program through education efforts and public information dissemination.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due | Permit Year 2<br>Measurable Goal Due | Permit Year 3<br>Measurable Goal Due | Permit Year 4<br>Measurable Goal Due | Permit Year 5<br>Measurable Goal Due |
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| 12 | Household Hazardous Waste (HHW) Collection | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Communications</li> </ul> | <ul style="list-style-type: none"> <li>• Continue support of Hays County Household Hazardous Waste Collection Center</li> <li>• Advertise the HHW collection center and location on City's website and in newsletters at least once per year to raise awareness of the program</li> <li>• Report outreach number(s) during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue support of Hays County Household Hazardous Waste Collection Center</li> <li>• Advertise the HHW collection center and location on City's website and in newsletters at least once per year to raise awareness of the program</li> <li>• Report outreach number(s) during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue support of Hays County Household Hazardous Waste Collection Center</li> <li>• Advertise the HHW collection center and location on City's website and in newsletters at least once per year to raise awareness of the program</li> <li>• Report outreach number(s) during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue support of Hays County Household Hazardous Waste Collection Center</li> <li>• Advertise the HHW collection center and location on City's website and in newsletters at least once per year to raise awareness of the program</li> <li>• Report outreach number(s) during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue support of Hays County Household Hazardous Waste Collection Center</li> <li>• Advertise the HHW collection center and location on City's website and in newsletters at least once per year to raise awareness of the program</li> <li>• Report outreach number(s) during each fiscal year on the City's annual report</li> </ul> |

**Stormwater Management Program**  
**MCM 1 - Public Education, Outreach and Involvement**

**BMP No. 13 - Park Maintenance**

The City encourages the public to be involved in picking up debris and illegally dumped items from the City's parks and waterways. Since the City of Kyle has dedicated full-time staff maintaining the City's parks daily (Monday-Friday), the City will report the amount of trash/debris removed from all City parks annually. The City does host the Annual Heart of Texas Tournament (HOTT) that involves a park and creek cleanup where trash and recyclables get removed from Steeplechase Park. This item is related to BMP 14.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019 | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020 | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021 | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022 | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023 |
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| 13 | Park Maintenance | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Parks Dept</li> </ul> | <ul style="list-style-type: none"> <li>• Host the Annual HOTT park and creek cleanup, weather permitting</li> <li>• Maintain city parks daily (Monday-Friday), reporting the quantity of trash/debris removed from all city parks on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Host the Annual HOTT park and creek cleanup, weather permitting</li> <li>• Maintain city parks daily (Monday-Friday), reporting the quantity of trash/debris removed from all city parks on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Host the Annual HOTT park and creek cleanup, weather permitting</li> <li>• Maintain city parks daily (Monday-Friday), reporting the quantity of trash/debris removed from all city parks on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Host the Annual HOTT park and creek cleanup, weather permitting</li> <li>• Maintain city parks daily (Monday-Friday), reporting the quantity of trash/debris removed from all city parks on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Host the Annual HOTT park and creek cleanup, weather permitting</li> <li>• Maintain city parks daily (Monday-Friday), reporting the quantity of trash/debris removed from all city parks on the City's annual report</li> </ul> |
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**Stormwater Management Program**  
**MCM 1 - Public Education, Outreach and Involvement**

**BMP No. 14 - Plum Creek Cleanup**

The City encourages the public to get involved in picking up debris and illegally dumped items from the City's waterways. The primary waterway of the City is impaired; therefore, this activity is directly related to improving water quality in the waterway. An annual creek cleanup, to remove trash and recyclables from the creek, parkland and trails will be conducted using volunteers and City staff.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019 | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020 | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021 | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022 | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023 |
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| 14 | Plum Creek Cleanup | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Communications</li> <li>• Park Dept</li> <li>• Public Works</li> </ul> | <ul style="list-style-type: none"> <li>• Continue annual creek cleanup</li> <li>• Reporting the quantity of trash/debris and recyclables removed from the cleanup on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue annual creek cleanup</li> <li>• Reporting the quantity of trash/debris and recyclables removed from the cleanup on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue annual creek cleanup</li> <li>• Reporting the quantity of trash/debris and recyclables removed from the cleanup on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue annual creek cleanup</li> <li>• Reporting the quantity of trash/debris and recyclables removed from the cleanup on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue annual creek cleanup</li> <li>• Reporting the quantity of trash/debris and recyclables removed from the cleanup on the City's annual report</li> </ul> |
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**Stormwater Management Program**  
**MCM 1 - Public Education, Outreach and Involvement**

**BMP No. 15 - Pet Waste**

The City encourages the public to be involved in picking up after their animals to limit the amount of fecal coliform that washes into the City's waterways. The primary waterway within the City is impaired, and this activity is directly related to improving water quality in the waterway. The City will continue identifying locations where pet waste stations would benefit the water quality of the creek and the City's citizens.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019 | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020 | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021 | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022 | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023 |
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| 15 | Pet Waste | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Communications</li> <li>• Park Dept</li> </ul> | <ul style="list-style-type: none"> <li>• Seek input from citizens for new pet waste station locations</li> <li>• Install new pet waste stations as budget allows</li> <li>• At least annually, provide outreach on the importance of pet waste management</li> <li>• Report outreach number(s) and/or the number of new pet waste stations installed during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Seek input from citizens for new pet waste station locations</li> <li>• Install new pet waste stations as budget allows</li> <li>• At least annually, provide outreach on the importance of pet waste management</li> <li>• Report outreach number(s) and/or the number of new pet waste stations installed during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Seek input from citizens for new pet waste station locations</li> <li>• Install new pet waste stations as budget allows</li> <li>• At least annually, provide outreach on the importance of pet waste management</li> <li>• Report outreach number(s) and/or the number of new pet waste stations installed during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Seek input from citizens for new pet waste station locations</li> <li>• Install new pet waste stations as budget allows</li> <li>• At least annually, provide outreach on the importance of pet waste management</li> <li>• Report outreach number(s) and/or the number of new pet waste stations installed during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Seek input from citizens for new pet waste station locations</li> <li>• Install new pet waste stations as budget allows</li> <li>• At least annually, provide outreach on the importance of pet waste management</li> <li>• Report outreach number(s) and/or the number of new pet waste stations installed during each fiscal year on the City's annual report</li> </ul> |
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**Stormwater Management Program**  
**MCM 2 - Illicit Discharge Detection and Elimination (IDDE)**

**BMP No. 16 - Stormwater Map**

The City has developed a stormwater system map detailing inlets, outfalls and the location of major stormwater conveyances within the city i.e., rivers, tributaries, creeks, etc. The location of all outfalls that discharge into waters of the U.S. and the name of the surface waters receiving discharges are shown. The map will be reviewed once per year and updated if necessary. A base map of the existing watersheds within the city and its surrounding areas is included on **Figure 2**.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019 | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020 | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021 | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022 | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023 |
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| 16 | Stormwater Map | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• GIS</li> </ul> | <ul style="list-style-type: none"> <li>• Continue developing map of stormwater outfall drainage areas or system features for the City</li> <li>• Report updates of stormwater map during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue developing map of stormwater outfall drainage areas or system features for the City</li> <li>• Report updates of stormwater map during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue developing map of stormwater outfall drainage areas or system features for the City</li> <li>• Report updates of stormwater map during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue developing map of stormwater outfall drainage areas or system features for the City</li> <li>• Report updates of stormwater map during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Continue developing map of stormwater outfall drainage areas or system features for the City</li> <li>• Report updates of stormwater map during each fiscal year on the City's annual report</li> </ul> |
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**Stormwater Management Program**  
**MCM 2 - Illicit Discharge Detection and Elimination (IDDE)**

**BMP No. 17 - Illicit Discharge Ordinance**

The City has an ordinance, City of Kyle Code of Ordinances Part I, Chapter 50, Article IX Stormwater Regulations, to effectively prohibit non-stormwater discharges into the storm drain system. The ordinance includes prohibitions against illicit discharges and enforcement procedures.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019 | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020 | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021 | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022 | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023 |
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| 17 | Illicit Discharge Ordinance | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Code Enforcement</li> </ul> | <ul style="list-style-type: none"> <li>• Review the Stormwater Regulations Ordinance annually</li> <li>• Review ordinance annually and update as needed</li> <li>• Report updates made to the Stormwater Regulations Ordinance on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review the Stormwater Regulations Ordinance annually</li> <li>• Review ordinance annually and update as needed</li> <li>• Report updates made to the Stormwater Regulations Ordinance on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review the Stormwater Regulations Ordinance annually</li> <li>• Review ordinance annually and update as needed</li> <li>• Report updates made to the Stormwater Regulations Ordinance on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review the Stormwater Regulations Ordinance annually</li> <li>• Review ordinance annually and update as needed</li> <li>• Report updates made to the Stormwater Regulations Ordinance on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review the Stormwater Regulations Ordinance annually</li> <li>• Review ordinance annually and update as needed</li> <li>• Report updates made to the Stormwater Regulations Ordinance on the City's annual report, if applicable</li> </ul> |
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**Stormwater Management Program**  
**MCM 2 - Illicit Discharge Detection and Elimination (IDDE)**

## BMP No. 18 - Illicit Discharge Inspections

The City currently inspects complaints related to non-stormwater discharges, including illicit discharges and illegal dumping in the MS4. The program includes responding to citizen complaints, locating problem areas, identifying sources contributing to problem areas, and taking corrective actions. This BMP also includes the use of BMP No. 12 - Stormwater Hotline.

| BMP | Description of BMP | Responsible | Permit Year 1 | Permit Year 2 | Permit Year 3 | Permit Year 4 | Permit Year 5 |
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| No. |                               | Department   | Measurable Goal Due Sept. 2019   | Measurable Goal Due Sept. 2020   | Measurable Goal Due Sept. 2021   | Measurable Goal Due Sept. 2022   | Measurable Goal Due Sept. 2023   |
|-----|-------------------------------|--------------|--|--|--|--|--|
| 18  | Illicit Discharge Inspections | • SWMP Admin | <ul style="list-style-type: none"> <li>Upon becoming aware, conduct investigations to identify and locate the source of illicit discharges as soon as practicable</li> <li>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</li> <li>Report the number of illicit discharge inspections conducted each fiscal year the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Upon becoming aware, conduct investigations to identify and locate the source of illicit discharges as soon as practicable</li> <li>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</li> <li>Report the number of illicit discharge inspections conducted each fiscal year the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Upon becoming aware, conduct investigations to identify and locate the source of illicit discharges as soon as practicable</li> <li>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</li> <li>Report the number of illicit discharge inspections conducted each fiscal year the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Upon becoming aware, conduct investigations to identify and locate the source of illicit discharges as soon as practicable</li> <li>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</li> <li>Report the number of illicit discharge inspections conducted each fiscal year the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>Upon becoming aware, conduct investigations to identify and locate the source of illicit discharges as soon as practicable</li> <li>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</li> <li>Report the number of illicit discharge inspections conducted each fiscal year the City's annual report</li> </ul> |

**Stormwater Management Program**  
**MCM 2 - Illicit Discharge Detection and Elimination (IDDE)**

**BMP No. 19 - Sanitary Sewer Line Maintenance and Inspection**

The City conducts routine inspections of sanitary sewer lines and manholes. These routine inspections assist in reducing the number of sanitary sewer overflows by proactively identifying potential maintenance issues. Wastewater appurtenances located near low-lying areas, either in drainage ways or near a waterway are a focus. Since the City's main waterway is impaired for bacteria, reducing and/or eliminating sanitary sewer overflows is a priority.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1 Measurable Goal Due Sept. 2019 | Permit Year 2 Measurable Goal Due Sept. 2020 | Permit Year 3 Measurable Goal Due Sept. 2021 | Permit Year 4 Measurable Goal Due Sept. 2022 | Permit Year 5 Measurable Goal Due Sept. 2023 |
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| 19 | Sanitary Sewer Line Maintenance and Inspection | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Public Works</li> </ul> | <ul style="list-style-type: none"> <li>• Conduct routine inspections of sanitary sewer lines and manholes</li> <li>• Report the number manhole inspections conducted as well as the number of linear feet of collection lines jetted and CCTV'ed during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Conduct routine inspections of sanitary sewer lines and manholes</li> <li>• Report the number manhole inspections conducted as well as the number of linear feet of collection lines jetted and CCTV'ed during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Conduct routine inspections of sanitary sewer lines and manholes</li> <li>• Report the number manhole inspections conducted as well as the number of linear feet of collection lines jetted and CCTV'ed during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Conduct routine inspections of sanitary sewer lines and manholes</li> <li>• Report the number manhole inspections conducted as well as the number of linear feet of collection lines jetted and CCTV'ed during each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Conduct routine inspections of sanitary sewer lines and manholes</li> <li>• Report the number manhole inspections conducted as well as the number of linear feet of collection lines jetted and CCTV'ed during each fiscal year on the City's annual report</li> </ul> |
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**Stormwater Management Program**  
**MCM 3 - Construction Site Stormwater Runoff Control**

**BMP No. 20 - Construction Site Stormwater Runoff and Erosion Control Ordinance**

The City has an ordinance, City of Kyle Code of Ordinances Part I, Chapter 50, Article IX Stormwater Regulations, to effectively regulate active construction sites. The ordinance, adopted by reference, the TPDES Construction General Permit, TXR15000, as well has more stringent requirements allowing the City to regulate all construction sites regardless of acreage disturbed. Additionally, the ordinance includes enforcement procedures for violators which includes stop work orders.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019 | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020 | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021 | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022 | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023 |
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| 20 | Construction Site Stormwater Runoff and Erosion Control Ordinance | <ul style="list-style-type: none"> <li>• SWMP Admin</li> </ul> | <ul style="list-style-type: none"> <li>• Review the Stormwater Regulations Ordinance annually</li> <li>• Update ordinance as needed</li> <li>• Report updates made to the Stormwater Regulations Ordinance on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review the Stormwater Regulations Ordinance annually</li> <li>• Update ordinance as needed</li> <li>• Report updates made to the Stormwater Regulations Ordinance on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review the Stormwater Regulations Ordinance annually</li> <li>• Update ordinance as needed</li> <li>• Report updates made to the Stormwater Regulations Ordinance on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review the Stormwater Regulations Ordinance annually</li> <li>• Update ordinance as needed</li> <li>• Report updates made to the Stormwater Regulations Ordinance on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review the Stormwater Regulations Ordinance annually</li> <li>• Update ordinance as needed</li> <li>• Report updates made to the Stormwater Regulations Ordinance on the City's annual report, if applicable</li> </ul> |
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**Stormwater Management Program**  
**MCM 3 - Construction Site Stormwater Runoff Control**

**BMP No. 21 –Site Plan and Construction Plan Reviews**

The City conducts site plan reviews for new development and redevelopment projects so that potential water quality impacts are identified. This includes erosion and sediment controls, waste management at active construction sites, compliance with the TPDES Construction General Permit, TXR15000 and Edwards Aquifer requirements, where applicable.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019 | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020 | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021 | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022 | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023 |
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| 21 | Review/Implement Site Plan Review Procedures | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Engineering Dept</li> <li>• Public Works</li> </ul> | <ul style="list-style-type: none"> <li>• Annually review and identify any necessary modifications to the site plan review procedures and make modifications to the procedures if necessary</li> <li>• Ensure compliance with City Ordinances and TPDES requirements during plan reviews</li> <li>• Report the number of plan reviews conducted each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Annually review and identify any necessary modifications to the site plan review procedures and make modifications to the procedures if necessary</li> <li>• Ensure compliance with City Ordinances and TPDES requirements during plan reviews</li> <li>• Report the number of plan reviews conducted each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Annually review and identify any necessary modifications to the site plan review procedures and make modifications to the procedures if necessary</li> <li>• Ensure compliance with City Ordinances and TPDES requirements during plan reviews</li> <li>• Report the number of plan reviews conducted each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Annually review and identify any necessary modifications to the site plan review procedures and make modifications to the procedures if necessary</li> <li>• Ensure compliance with City Ordinances and TPDES requirements during plan reviews</li> <li>• Report the number of plan reviews conducted each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Annually review and identify any necessary modifications to the site plan review procedures and make modifications to the procedures if necessary</li> <li>• Ensure compliance with City Ordinances and TPDES requirements during plan reviews</li> <li>• Report the number of plan reviews conducted each fiscal year on the City's annual report</li> </ul> |
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**Stormwater Management Program**  
**MCM 3 - Construction Site Stormwater Runoff Control**

**BMP No. 22 - Construction Site Inspections**

The City will continue conducting inspections for new development and redevelopment construction sites so that potential water quality impacts are addressed. Inspections will consist of inspecting erosion and sediment controls, waste at construction sites, compliance with City ordinances, TPDES Construction General Permit requirements and Edwards Aquifer requirements, where applicable. Enforcement procedures include stop work orders, fines and other enforcement actions.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019 | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020 | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021 | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022 | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023 |
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| 22 | Construction Site Inspections | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Public Works</li> </ul> | <ul style="list-style-type: none"> <li>• Ensure site control measures have been selected, installed, implemented, and maintained according to the City's requirements</li> <li>• Provide a written or electronic inspection report if violations are documented</li> <li>• Report the number of inspections conducted each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Ensure site control measures have been selected, installed, implemented, and maintained according to the City's requirements</li> <li>• Provide a written or electronic inspection report if violations are documented</li> <li>• Report the number of inspections conducted each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Ensure site control measures have been selected, installed, implemented, and maintained according to the City's requirements</li> <li>• Provide a written or electronic inspection report if violations are documented</li> <li>• Report the number of inspections conducted each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Ensure site control measures have been selected, installed, implemented, and maintained according to the City's requirements</li> <li>• Provide a written or electronic inspection report if violations are documented</li> <li>• Report the number of inspections conducted each fiscal year on the City's annual report</li> </ul> | <ul style="list-style-type: none"> <li>• Ensure site control measures have been selected, installed, implemented, and maintained according to the City's requirements</li> <li>• Provide a written or electronic inspection report if violations are documented</li> <li>• Report the number of inspections conducted each fiscal year on the City's annual report</li> </ul> |
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### Stormwater Management Program

#### MCM 4 - Post Construction Stormwater Management in New Development and Redevelopment

##### BMP No. 23 - Post Construction Stormwater Runoff Control Ordinance

The City has developed standard structural and non-structural BMPs to mitigate post construction run-off for new development or redevelopment projects. Review existing ordinances and modify to include the selected BMPs and ensure adequate long-term operation and maintenance of BMPs. Records of maintenance will be required of all private property owners.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019 | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020 | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021 | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022 | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023 |
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| 23 | Post Construction Stormwater Runoff Control Ordinance | <ul style="list-style-type: none"> <li>• SWMP Admin</li> </ul> | <ul style="list-style-type: none"> <li>• Review existing ordinances annually</li> <li>• Update the ordinances as needed</li> <li>• Report updates made to existing ordinances on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review existing ordinances annually</li> <li>• Update the ordinances as needed</li> <li>• Report updates made to existing ordinances on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review existing ordinances annually</li> <li>• Update the ordinances as needed</li> <li>• Report updates made to existing ordinances on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review existing ordinances annually</li> <li>• Update the ordinances as needed</li> <li>• Report updates made to existing ordinances on the City's annual report, if applicable</li> </ul> | <ul style="list-style-type: none"> <li>• Review existing ordinances annually</li> <li>• Update the ordinances as needed</li> <li>• Report updates made to existing ordinances on the City's annual report, if applicable</li> </ul> |
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## Stormwater Management Program

## MCM 4 - Post Construction Stormwater Management in New Development and Redevelopment

## BMP No. 24 - Post Construction Structural and Non-Structural BMPs

The City has developed standard structural and non-structural BMPs to mitigate post construction run-off for new development or redevelopment projects. Review existing ordinances and modify to include the BMPs and ensure adequate long-term operation and maintenance of BMPs. Records of maintenance will be required of all private property owners.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due | Permit Year 2<br>Measurable Goal Due | Permit Year 3<br>Measurable Goal Due | Permit Year 4<br>Measurable Goal Due | Permit Year 5<br>Measurable Goal Due |
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|    |  |              | Sept. 2019  | Sept. 2020  | Sept. 2021  | Sept. 2022  | Sept. 2023  |
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| 24 | Post Construction Structural and Non-Structural BMPs | • SWMP Admin | <ul style="list-style-type: none"> <li>Review existing ordinances annually</li> <li>Update the ordinances as needed</li> <li>Report updates made to existing ordinances on the City's annual report, when applicable</li> </ul> | <ul style="list-style-type: none"> <li>Review existing ordinances annually</li> <li>Update the ordinances as needed</li> <li>Report updates made to existing ordinances on the City's annual report, when applicable</li> </ul> | <ul style="list-style-type: none"> <li>Review existing ordinances annually</li> <li>Update the ordinances as needed</li> <li>Report updates made to existing ordinances on the City's annual report, when applicable</li> </ul> | <ul style="list-style-type: none"> <li>Review existing ordinances annually</li> <li>Update the ordinances as needed</li> <li>Report updates made to existing ordinances on the City's annual report, when applicable</li> </ul> | <ul style="list-style-type: none"> <li>Review existing ordinances annually</li> <li>Update the ordinances as needed</li> <li>Report updates made to existing ordinances on the City's annual report, when applicable</li> </ul> |

### Stormwater Management Program

#### MCM 4 - Post Construction Stormwater Management in New Development and Redevelopment

#### BMP No. 25 - Stormwater Sampling

The City will collect samples taken by hand during illicit discharge inspections in the event of an unknown substance.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019 | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020 | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021 | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022 | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023 |
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| 25 | Stormwater Sampling | <ul style="list-style-type: none"><li>• SWMP Admin</li></ul> | <ul style="list-style-type: none"><li>•</li></ul> | <ul style="list-style-type: none"><li>•</li></ul> | <ul style="list-style-type: none"><li>•</li></ul> | <ul style="list-style-type: none"><li>•</li></ul> | <ul style="list-style-type: none"><li>•</li></ul> |
|----|---------------------|--|---|---|---|---|---|

**Stormwater Management Program**  
**MCM 4 - Post Construction Stormwater Management in New Development and Redevelopment**

**BMP No. 26 - Land Use Plan**

The City will evaluate its comprehensive plan, taking into account uses that contribute to stormwater, as well as acceptable land use and traits of structures adjacent or immediately contributing to waterways. In addition, water quality will be taken into account during zoning change requests that come before the Planning and Zoning Commission.

| BMP No. | Description of BMP | Responsible Department  | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019  | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020  | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021  | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022  | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023  |
|---------|--------------------|---|---|---|---|---|---|
| 26      | Land Use Plan      | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Planning Dept</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> |

**Stormwater Management Program**  
**MCM 5 - Pollution Prevention and Good Housekeeping for Municipal Operations**

**BMP No. 27 - Municipal Operations and Industrial Activity Operations and Maintenance Program**

The City will develop and implement an operation and maintenance program with the goal of preventing or reducing pollutant run-off from municipal operation into the storm sewer system. The operations to be included in this process shall include: park and open space maintenance, street 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, salt/sand storage locations, waste disposal from municipal operations, and structural control maintenance for BMPs, as applicable. The program will include a list of all maintenance

activities, maintenance schedules, and long-term inspection procedures for controls used to reduce floatables and other pollutants. As part of the program, procedures for the proper disposal of waste from structural controls and maintenance activities will be included. Contractors hired by the City will be required to comply with O&M procedures.

| BMP No. | Description of BMP  | Responsible Department  | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019  | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020  | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021  | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022  | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023  |
|---------|---|---|---|---|---|---|---|
| 27      | Municipal Operations and Industrial Activity Operations and Maintenance Program | <ul style="list-style-type: none"><li>• SWMP Admin</li><li>• Communications</li></ul> | <ul style="list-style-type: none"><li>• Review website annually</li><li>• Update website annually as needed</li><li>• Maintain website annually as needed</li></ul> | <ul style="list-style-type: none"><li>• Review website annually</li><li>• Update website annually as needed</li><li>• Maintain website annually as needed</li></ul> | <ul style="list-style-type: none"><li>• Review website annually</li><li>• Update website annually as needed</li><li>• Maintain website annually as needed</li></ul> | <ul style="list-style-type: none"><li>• Review website annually</li><li>• Update website annually as needed</li><li>• Maintain website annually as needed</li></ul> | <ul style="list-style-type: none"><li>• Review website annually</li><li>• Update website annually as needed</li><li>• Maintain website annually as needed</li></ul> |

**Stormwater Management Program**  
**MCM 5 - Pollution Prevention and Good Housekeeping for Municipal Operations**

**BMP No. 28 - Training Program for City Employees to Minimize Runoff Caused by Municipal Operations**

The City will develop and implement a training program for city employees responsible for municipal operations subject to the program described in BMP No. 27. Training materials will be gathered for the various municipal operations directed at preventing and reducing stormwater pollution. The employees and operations selected to require training is directly linked to the Operation and Maintenance Program developed as part of BMP No. 27.

| BMP | Description of BMP | Responsible | Permit Year 1 | Permit Year 2 | Permit Year 3 | Permit Year 4 | Permit Year 5 |
|-----|--------------------|-------------|---------------|---------------|---------------|---------------|---------------|
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| No. |   | Department   | Measurable Goal Due<br>Sept. 2019   | Measurable Goal Due<br>Sept. 2020   | Measurable Goal Due<br>Sept. 2021   | Measurable Goal Due<br>Sept. 2022   | Measurable Goal Due<br>Sept. 2023   |
|-----|---|--|---|---|---|---|---|
| 28  | Training Program for City Employees to Minimize Runoff Caused by Municipal Operations | <ul style="list-style-type: none"> <li>SWMP Admin</li> <li>Communications</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> |

**Stormwater Management Program**  
**MCM 5 - Pollution Prevention and Good Housekeeping for Municipal Operations**

**BMP No. 29 - Chemical Applications and Materials Management**

The City will develop and implement procedures for management of the storage and application of chemicals and materials.

| BMP No. | Description of BMP | Responsible Department | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019 | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020 | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021 | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022 | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023 |
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|----|--|---|---|---|---|---|---|
| 29 | Chemical Applications and Materials Management | <ul style="list-style-type: none"><li>• SWMP Admin</li><li>• Communications</li></ul> | <ul style="list-style-type: none"><li>• Review website annually</li><li>• Update website annually as needed</li><li>• Maintain website annually as needed</li></ul> | <ul style="list-style-type: none"><li>• Review website annually</li><li>• Update website annually as needed</li><li>• Maintain website annually as needed</li></ul> | <ul style="list-style-type: none"><li>• Review website annually</li><li>• Update website annually as needed</li><li>• Maintain website annually as needed</li></ul> | <ul style="list-style-type: none"><li>• Review website annually</li><li>• Update website annually as needed</li><li>• Maintain website annually as needed</li></ul> | <ul style="list-style-type: none"><li>• Review website annually</li><li>• Update website annually as needed</li><li>• Maintain website annually as needed</li></ul> |
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**Stormwater Management Program**  
**MCM 5 - Pollution Prevention and Good Housekeeping for Municipal Operations**

**BMP No. 30 - Storm Drainage System Maintenance**

The City will develop a schedule to conduct visual inspections of the City's storm sewer system and evaluate the need for maintenance.

The system will be cleaned as needed in response to complaints or reported problems. Debris and eroded materials will be removed prior to being discharged into a waterway.

| <b>BMP No.</b> | <b>Description of BMP</b>         | <b>Responsible Department</b>  | <b>Permit Year 1<br/>Measurable Goal Due<br/>Sept. 2019</b>   | <b>Permit Year 2<br/>Measurable Goal Due<br/>Sept. 2020</b>   | <b>Permit Year 3<br/>Measurable Goal Due<br/>Sept. 2021</b>   | <b>Permit Year 4<br/>Measurable Goal Due<br/>Sept. 2022</b>   | <b>Permit Year 5<br/>Measurable Goal Due<br/>Sept. 2023</b>   |
|----------------|-----------------------------------|--|---|---|---|---|---|
| 30             | Storm Drainage System Maintenance | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Communications</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> |

**Stormwater Management Program**  
**MCM 5 - Pollution Prevention and Good Housekeeping for Municipal Operations**

**BMP No. 31 - Street Sweeping**

The City will develop a schedule to conduct regular street sweeping to remove debris from roadways before it washes into the storm sewer system.

The streets will be cleaned as needed in response to complaints or reported problems.

| <b>BMP No.</b> | <b>Description of BMP</b> | <b>Responsible Department</b>  | <b>Permit Year 1<br/>Measurable Goal Due<br/>Sept. 2019</b>   | <b>Permit Year 2<br/>Measurable Goal Due<br/>Sept. 2020</b>   | <b>Permit Year 3<br/>Measurable Goal Due<br/>Sept. 2021</b>   | <b>Permit Year 4<br/>Measurable Goal Due<br/>Sept. 2022</b>   | <b>Permit Year 5<br/>Measurable Goal Due<br/>Sept. 2023</b>   |
|----------------|---------------------------|--|---|---|---|---|---|
| 31             | Street Sweeping           | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Communications</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> |

**Stormwater Management Program**  
**MCM 5 - Pollution Prevention and Good Housekeeping for Municipal Operations**

**BMP No. 32 - Structural Control Maintenance**

The City will develop a plan for inspection and maintenance of City maintained structural controls as well as establish procedures to monitor private industry structural control maintenance (documentation records) and monitor public maintenance of structural controls through documented inspection. Penalties for failure to maintain private structural controls will be implemented.

| <b>BMP No.</b> | <b>Description of BMP</b>      | <b>Responsible Department</b>  | <b>Permit Year 1<br/>Measurable Goal Due<br/>Sept. 2019</b>   | <b>Permit Year 2<br/>Measurable Goal Due<br/>Sept. 2020</b>   | <b>Permit Year 3<br/>Measurable Goal Due<br/>Sept. 2021</b>   | <b>Permit Year 4<br/>Measurable Goal Due<br/>Sept. 2022</b>   | <b>Permit Year 5<br/>Measurable Goal Due<br/>Sept. 2023</b>   |
|----------------|--------------------------------|--|---|---|---|---|---|
| 32             | Structural Control Maintenance | <ul style="list-style-type: none"> <li>• SWMP Admin</li> <li>• Communications</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>• Review website annually</li> <li>• Update website annually as needed</li> <li>• Maintain website annually as needed</li> </ul> |

**Stormwater Management Program**  
**MCM 5 - Pollution Prevention and Good Housekeeping for Municipal Operations**

**BMP No. 33 - Spill Response**

The City will develop a plan for assisting the Emergency Service District Fire Personnel in the event of hazardous, or non-hazardous material spills on the city's roadways.

| BMP No. | Description of BMP | Responsible Department   | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019  | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020  | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021  | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022  | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023  |
|---------|--------------------|--|---|---|---|---|---|
| 33      | Spill Response     | <ul style="list-style-type: none"> <li>SWMP Admin</li> <li>Communications</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> |

**Stormwater Management Program**  
**MCM 5 - Pollution Prevention and Good Housekeeping for Municipal Operations**

**BMP No. 34 - Disposal of Collected Storm Drainage System Waste**

The City will develop a plan for disposing of waste collected and removed during the cleaning and maintenance of the Storm Sewer System. Attention will be paid to using proper methods of disposal, reusing material when able, and hauling or disposing of material when necessary.

| BMP No. | Description of BMP                                | Responsible Department   | Permit Year 1<br>Measurable Goal Due<br>Sept. 2019  | Permit Year 2<br>Measurable Goal Due<br>Sept. 2020  | Permit Year 3<br>Measurable Goal Due<br>Sept. 2021  | Permit Year 4<br>Measurable Goal Due<br>Sept. 2022  | Permit Year 5<br>Measurable Goal Due<br>Sept. 2023  |
|---------|---|--|---|---|---|---|---|
| 34      | Disposal of Collected Storm Drainage System Waste | <ul style="list-style-type: none"> <li>SWMP Admin</li> <li>Communications</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> | <ul style="list-style-type: none"> <li>Review website annually</li> <li>Update website annually as needed</li> <li>Maintain website annually as needed</li> </ul> |

## **Appendix B**

### **Notice of Intent (NOI) and General Permit Authorization**

## **Appendix C**

### **Notice of Changes (NOCs)**

## **Appendix D**

### **Records of Updates/Changes**

## **Appendix E**

### **Stormwater Standard Operating Procedures (SOPs)**

## **Appendix F**

### **TCEQ MS4 Permit Correspondence**

## **Appendix G**

### **Year 1 Annual Report**

## **Appendix H**

### **Year 2 Annual Report**

## **Appendix I**

### **Year 3 Annual Report**

## **Appendix J**

### **Year 4 Annual Report**

## **Appendix K**

### **Year 5 Annual Report**