

Phase II Storm Water Program Development

Task 701 Report

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Prepared for:



Storm Water Management Program

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1.0 PURPOSE OF PROGRAM

The objective of this Storm Water Management Program (SWMP) is to develop a program with which the City of Killeen can reduce the discharge of pollutants to the Maximum Extent Practicable (MEP). This program was developed with much coordination between the City and community to customize a program for Killeen that meets state and federal program requirements and also utilizes current activities, addresses issues that are important to the community, and is economically feasible.

2.0 DESCRIPTION OF AREA PROPOSED FOR PERMIT COVERAGE

2.1 Killeen Area Description and Urbanized Area Boundaries

The Bureau of Census defines urbanized areas as "...a land area comprising one or more places – central place(s) – and the adjacent densely settled surrounding area - urban fringe – that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile". A figure depicting the urbanized area for Killeen, Texas and its surrounding areas was developed by the Environmental Protection Agency (EPA) and is provided in **Appendix 1 Killeen, Texas Urbanized Area**.

2.2 Adjacent/Enclave Municipal Separate Storm Sewer Systems (MS4s)

A Municipal Separate Storm Sewer System (MS4) is a conveyance or system of conveyances that includes roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains that is owned and operated by a jurisdiction for the collection and conveyance of storm water. Non-traditional MS4s that may also be regulated include military bases, large hospital or prison complexes or highways and other thoroughfares.

There are no separate MS4s located within the City of Killeen corporate limits; however, two adjacent MS4s are located outside of Killeen's city limits but within the Killeen, Texas Urbanized Area (**Appendix 1**). Killeen's city limits as shown on the 2000 Urbanized Area Map (**Appendix 1**) has expanded with recent annexations. Some of the areas shown as urbanized area in unincorporated Bell County are now within the Killeen city limits. The Killeen City Limits Map (**Appendix 2 City of Killeen City Limits Map**) depicts the current city limits.

Adjacent MS4s include Harker Heights and Fort Hood.

2.3 Receiving Waters

There are several water bodies that receive discharges from the City of Killeen's MS4. The following streams and their tributaries receive storm water discharges from the City of Killeen's urbanized area:

- Hay Branch
- Little Nolan Creek
- Long Branch
- Reese Creek
- Rock Creek
- South Nolan Creek (Segment 1218)
- Trimmier Creek

2.3.1 Pollutants of Concern

A review of federal, state and local water quality monitoring programs was conducted to identify any water quality impairments and pollutants of concern. Nolan Creek/South Nolan Creek (Segment 1218 of the Brazos River Basin) extends 29 river miles from the confluence with the Leon River in Bell County to a point 100 meters upstream of the upper-most crossing of US 190 and Loop 172 in Bell County. Designated uses for South Nolan Creek include high aquatic life use, contact recreation use, general use, and fish consumption use. The 2006 Draft Texas Water Quality Inventory and 303(d) List (June 27, 2007) prepared by TCEQ identifies several pollutants of concern for which the segment is either impaired or has sufficient exceedences of water quality standards criteria to be a concern. The segment is impaired (i.e., not supporting) with respect to the contact recreation use due to elevated bacteria levels. The segment was first listed on the State's 303(d) List in 1996 and was classified in Category 5c. A classification of Category 5a indicated that the TCEQ felt that more data and information was needed before a Total Maximum Daily Load (TMDL) analysis would be scheduled. The 2006 draft 303(d) list changed the status for the segment to Category 5a, which indicates that a TMDL will be scheduled for the stream segment.

In addition to the 303(d) listing of Segment 1218 for bacteria, surface water quality assessments have also identified South Nolan Creek as having a nutrient enrichment concern. Nutrients, specifically nitrate, orthophosphorus, and total phosphorus, have been identified as a concern.

The City of Killeen and the Storm Water Stakeholders Group considered the pollutants of concern in their selection of BMPs for Killeen's SWMP.

2.4 Other City Activities Requiring Storm Water Permit Coverage

A Storm Water Pollution Prevention Plan (SWPPP) has been prepared for industrial activities at the Fleet Service Center located at 2003 Little Nolan Road, the Killeen Recycling Facility located at 111 Avenue F, and the Waste Transfer Station located at 90648 South Highway 195 in Killeen, Bell County, Texas as required for compliance with the Texas Pollutant Discharge Elimination System (TPDES) Storm Water General Permit number TXR050000 relating to storm water discharge associated with Industrial Activity.

The City of Killeen is also required to obtain a construction general permit for any City-owned construction activity, which disturbs one or more acres of land in accordance with conditions of the Construction General Permit (General Permit No. TXR150000), covering eligible storm water and certain types of non-storm water discharges to surface water in the state.

3.0 ACTIVITIES CONDUCTED IN SUPPORT OF PROGRAM DEVELOPMENT

Many activities were performed to support the Storm Water Management Program Development for the City of Killeen and are listed below:

- Review of existing storm water program information provided by the City
- A legal review of the City's storm water related ordinances
- Review of the City's existing storm water mapping information
- Detailed review of available water quality data in the Killeen area
- Prepared a technical report summarizing the above information
- Conducted 4 meetings of the Storm Water Stakeholders Group
- Conducted a Business Stakeholders Group meeting
- Conducted a Public Input Meeting
- Facilitated meetings with City departments
- Met with the City's GIS Coordinator
- Reviewed City facilities

Some of the more significant activities are described in detail as follows:

3.1 Storm Water Stakeholders Group

The Storm Water Stakeholders Group for the City of Killeen consists of 23 citizens who represent a broad cross section of the City's constituency. The stakeholders included representatives from Texas Department of Transportation, Beautify Killeen, Fort Hood, City of Harker Heights, Texas State Soil and Water Conservation Board, Bell County Public Health Department, as well as several homeowners, restaurant owners and developers.

Four meetings were conducted at the City of Killeen community meeting room at 207 W. Avenue D. The meetings typically began with a brief PowerPoint presentation, followed by a review of the BMP summary notebook for each minimum control measure and a discussion of the applicability of each BMP to Killeen. Each meeting concluded with the stakeholders voting on their "top five" BMPs for each minimum control measure.

The City has presented information on the Phase II program at several committees including the Landscape Ad Hoc Committee, Land Development Committee and Land Use/Development Committee. Committee meetings were held on the following dates:

- Landscape Ad Hoc Committee meetings (11/12/03, 1/28/04, 4/7/04, and 5/5/04)
- Land Development Committee meetings (11/2/06, 12/14/06, 2/27/07, 4/26/07, 5/11/07)
- Land Use/Development Committee meetings (7/19/07, 7/25/07, 8/1/07, 9/20/07)

3.2 City Department Meetings

Two days of meetings with various City Departments were held on March 21 and 22, 2002. Each session began with a brief PowerPoint presentation, followed by an interview of the staff from each department that was represented.

3.3 City Facility Review

The following City facilities were visited and inspected for storm water related issues:

- Fleet Service Center (Little Nolan Road Complex)
 - This Service Center houses the following Divisions:
 - Solid Waste Services Division
 - Streets Services Division
 - Fleet Service Division
- Three of the seven Killeen Fire Stations
- Killeen Pump Stations and Lift Stations
- Killeen Parks and Golf Course
- Killeen Recycling Center
- Waste Transfer Station

4.0 SUMMARY OF PHASE II STORM WATER REGULATIONS AND PROGRAM REQUIREMENTS

4.1 Regulatory Chronology

The current effort to improve the water quality in the Nation's streams started in 1977 with the passage of the Clean Water Act. The main emphasis of this legislation was to establish a system to control pollution from point sources, with the goal of reducing pollutants so that the water in our lakes and streams is both fishable and swimmable. To achieve this goal, the CWA established the National Pollutant Discharge Elimination System (NPDES). The NPDES requires that anyone discharging a pollutant from a municipal wastewater or industrial point source must obtain an NPDES permit, which specifies effluent limits, monitoring requirements, and enforcement mechanisms.

The CWA also contains regulations to address pollution from diffuse, non-point sources. The EPA defines non-point source pollution as "any pollution associated with diffuse land use activities that cumulatively results in water quality degradation." Phase I of the NPDES regulations required municipalities with populations over 100,000 to classify their storm water runoff and develop programs to reduce the pollutants in their runoff.

On December 8, 1999, U.S. EPA promulgated regulations, known as Phase II, requiring permits for storm water discharges from small MS4s and required small MS4s to obtain permit coverage by March 10, 2003. Since Texas has delegation authority to administer the NPDES program in the State, the Texas Commission of Environmental Quality (TCEQ) developed and released their draft Texas Pollutant Discharge Elimination System (TPDES) Small MS4 General Permit on September 1, 2002 to meet the March 10th deadline.

A series of lawsuits followed the permit release, which ultimately ended up in the 9th Circuit Court. A suit brought by business groups, developers and a coalition of Texas cities and counties challenged the constitutionality of the Phase II regulations. On January 14, 2003, the U.S. 9th Circuit Court issued its decision in *Environmental Defense Center et al. vs. EPA*. The ruling upheld the Phase II regulations on all but 3 of the 20 issues that were contested. On September 15, 2003, the U.S. 9th Circuit Court of Appeals issued a revised panel decision, which denied all petitions for rehearing and remanded portions of the rule affecting small MS4s to the EPA. The Court found that portions of the federal regulations were not consistent with the Clean Water Act,

because the Phase II rules did not address permitting authority review and public participation and notification. The three issues that were remanded back to EPA required that the NOI and SWMP be made available to the public and undergo meaningful review by the State to determine if the MEP standard is met, and there must be a process to accommodate public hearings.

An EPA guidance memo, dated April 16, 2004, was issued to permitting authorities and the TCEQ revised and released their second draft TPDES MS4 General Permit on August 8, 2005. After a second public comment period, the TCEQ revised and released the final TPDES MS4 General Permit on August 13, 2007.

4.2 Summary of Federal Regulatory Requirements

The final Phase II NPDES regulations were published on December 8, 1999. A copy of these regulations is provided in **Appendix 2 - December 8, 1999 Federal Register Notice of Phase II Permit Requirements**. In developing the federal NPDES regulations for small MS4s, the EPA was able to build upon their experience with Phase I MS4s. Based on a survey of the successful Phase I municipal programs, the EPA recognized that successful storm water quality programs have several things in common, including that they:

- Educate the public on storm water impacts
- Involve the public in the development and operation of the program
- Establish procedures to detect and eliminate pollutant discharges
- Control storm water runoff from construction sites
- Require permanent controls for post-construction storm water runoff
- Include good housekeeping practices for municipal operations

The EPA refers to these items as "minimum control measures", and the Phase II regulations require the City of Killeen to "develop, implement, and enforce a storm water program to reduce the discharge of pollutants to the Maximum Extent Practicable, to protect water quality, and satisfy the appropriate water quality requirements of the Clean Water Act."

4.3 Summary of State TPDES Permit TXR040000 Requirements

The Texas Commission of Environmental Quality (TCEQ) has adopted a TPDES general permit to authorize discharges of storm water from small MS4 located in the state of Texas to Water of the United States. This general permit is briefly summarized below and a complete copy is located in **Appendix 3 - TPDES General Permit for Storm Water Discharges from Small MS4s**.

4.3.1 Permit Applicability and Coverage

This section of the General Permit states that an MS4 that is fully or partially within urbanized areas is eligible for this permit and must obtain authorization for the discharge of storm water runoff. Any small MS4 that the Executive Director may require to submit an application for authorization to discharge storm water from the system is eligible for coverage under this permit.

The General Permit provides that certain non-storm water sources may be discharged from the Small MS4 and are not required to be addressed in the Small MS4 operator's Illicit Discharge minimum control measure, provided that these sources have *not* been determined by the operator or the TCEQ to be significant contributors of pollutants. These allowable non-storm water discharges are listed below:

- Water line flushing (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);
- Runoff or return flow from landscape irrigation, lawn irrigation, and other irrigation utilizing potable water, groundwater, or surface water sources;
- Discharges from potable water sources;
- Diverted stream flows;
- Rising ground waters and springs;
- Uncontaminated ground water infiltration;
- Uncontaminated pumped ground water;
- Foundation and footing drains;
- Air conditioning condensation;
- Water from crawl space pumps;
- Individual residential vehicle washing;
- Flows from wetlands and riparian areas;
- Dechlorinated swimming pool discharges;
- Street wash water;
- Discharges or flows from 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);
- Other allowable non-storm water discharges listed in 40 CFR § 122.26 (d)(2)(iv)(B)(1);
- Non-storm water discharges specifically listed in the TPDES Multi-Sector General Permit (MSGP) or the TPDES Construction General Permit (CGP); and
- Other similar occasional incidental non-storm water discharges, unless the TCEQ develops permits or regulations addressing these discharges.

The City of Killeen does not consider these non-storm water sources to be a significant contributor of pollutants to their MS4 and will therefore adopt the above list of allowable non-storm water discharges and will not consider these discharges as illicit.

Small MS4s seeking to obtain coverage pursuant to TPDES General Permit No. TXR040000 are required to submit a completed Notice of Intent (NOI) with a SWMP. The operators of the Small MS4 must submit an NOI within one hundred and eighty (180) days following the effective date of the General Permit. The General Permit specifically states:

Operators of small MS4s described in Part II.A.1. must submit an NOI and SWMP within 180 days following the effective date of this general permit.

The TPDES General Permit became effective on August 13, 2007 and the deadline for submission of the NOI and SWMP is February 11, 2008. The General Permit requires that an application fee of \$100.00 be submitted with the NOI. A SWMP Cover Sheet must be completed and attached to the front of the SWMP. One (1) copy of the NOI and SWMP must be submitted with the original NOI and SWMP. A copy of the NOI is provided in **Appendix 4 - Notice of Intent Form**.

Upon notification from the TCEQ Office of Chief Clerk, the City will comply with public notice requirements by publishing notice in the newspaper of largest circulation in Bell County. The Killeen Daily Herald and the Temple Daily Telegram are roughly equal in their circulation; therefore, the City will publish in the local newspaper, the Killeen Daily Herald. The notice will include the executive director's preliminary determination on the NOI and SWMP. The notice must also include the following information:

- The legal name of the MS4;
- Identify whether the NOI is for a new small MS4 or a renewal of an existing operation;
- The City's address
- A brief summary of the information included in the NOI (general location and description of classified receiving waters that receive discharges from the small MS4;
- The location and mailing address for the public to provide comments to TCEQ;
- The public location where copies of the NOI and SWMP, as well as the executive director's general permit and fact sheet, may be reviewed;
- If required by the executive director, the date, time, and location of the public meeting.

The public comment period begins on the first date that the notice is published and ends 30-days later, unless a public meeting is scheduled. If TCEQ determines that there is a significant public interest, the City will be instructed to publish a notice of public meeting and hold a public meeting in Bell County. If a public meeting is held, then the public comment period ends at the closing of the public meeting.

4.3.2 Storm Water Management Program Requirements

This section of the General Permit again states that the SWMP must be developed and implemented for discharges of storm water that reach "Waters of the United States" (General Permit, Part III). The General Permit also states that the SWMP must be "developed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act and the Texas Water Code" (General Permit, Part III). The "maximum extent practicable" ("MEP") standard is common in EPA's storm water regulations and permits, but it

is not defined,¹ so it is a very subjective standard for the operator of the Small MS4 to meet. EPA has stated: "Compliance with the conditions of the general permit and the series of steps associated with identification and implementation of the minimum control measures will satisfy the MEP standard." 64 Fed. Reg. at 68,754.

The TPDES General Permit (TXR040000) for small MS4s identified seven minimum control measures, which are as follows:

- Public Education and Outreach for Storm water Impacts
- Public Involvement/ Participation
- Illicit Discharge Detection and Elimination
- Construction Site Storm Water Runoff Control
- Post-Construction Storm Water Management in New Development and Redevelopment
- Pollution Prevention/Good Housekeeping for Municipal Operations
- Authorization for Municipal Construction Activities.

The first six minimum control measures are required components of the Storm Water Management Program; however, the seventh measure is optional and is an alternative to the MS4 operator seeking separate coverage under the TPDES construction general permit (TXR150000).

As part of the general requirements for the SWMP, the permittee must provide documentation, implementation, and evaluation of the SWMP. This information is provided in detail in section **5.0 Killeen's Program for the Required Minimum Control Measures**.

4.3.3 Numeric Effluent Limitations

The General Permit requires that all discharges of storm water runoff from concrete batch plants be monitored once per year and meet numeric effluent limitations for three parameters, which are summarized below:

Table 1: Summary of Effluent Limitations

Parameter	Limitations – Daily Maximum
Total Suspended Solids	65 mg/l
Oil and Grease	15 mg/l
pH	Between 6 and 9 standard units

4.3.4 Record Keeping and Reporting

The General Permit requires the operator of the Small MS4 to retain all records, a copy of the General Permit, and records of all data to complete the NOI and

¹ EPA even notes in one guidance document: "There is no regulatory definition of MEP in order to allow the permitting authority and regulated MS4s maximum flexibility in their interpretation of it as appropriate." EPA, Office of Water, "Storm Water Phase II Compliance Assistance Guidance" at 4-17 (Mar. 2000).

satisfy the public participation requirements, for a period of at least three years or for the remainder of the term of the general permit, "whichever is longer" (General Permit, Part IV.A.1). Because the permit term is five years, it appears that the minimum period of time to maintain such information will be five years.

The General Permit also contains provisions regarding how records related to the SWMP are to be made available to the public. The General Permit requires the operator of the Small MS4 to make the records, including the NOI and the SWMP, available to the public if requested to do so in writing. The General Permit states:

Copies of the SWMP must be made available within 10 working days of receipt of a written request. Other records must be provided in accordance with the Texas Public Information Act. (General Permit, Part IV.A.3)

A concise annual report must be submitted by the City of Killeen to the Executive Director within 90 days of the end of each permit year of the permit term. The annual report must be prepared and submitted regardless of whether the City's SWMP and NOI have been approved by TCEQ. The permit term began when the TPDES General Permit No. TXR040000 was signed into effect (August 13, 2007). The permit years and deadlines for annual reports are specified below.

<u>Year</u>	<u>Reporting Cycle</u>	<u>Annual Report Due Date</u>
1	8/13/2007 – 8/12/2008	11/10/2008
2	8/13/2008 – 8/12/2009	11/10/2009
3	8/13/2009 – 8/12/2010	11/10/2010
4	8/13/2010 – 8/12/2011	11/10/2011
5	8/13/2011 – 8/12/2012	11/10/2012

A copy of the annual report must be readily available for review by authorized TCEQ personnel upon request. The report must contain a number of elements including:

- Status of compliance with permit conditions
- Status of any additional control measures implemented by the permittee
- Any Minimum Control Measure activities implemented before permit issuance may be included as part of the first year's annual report.
- A summary of the results of the information (including monitoring data) collected and analyzed
- A summary of activities planned for the next reporting cycle
- Proposed changes to the storm water management program
- Number of municipal construction activities authorized under this general permit and total number of acres disturbed
- Number of non-municipal construction activities that occurred within the jurisdiction

A proposed report format is provided in **Appendix 5 - Proposed Annual Report Outline.**

4.3.5 Standard Permit Conditions

The General Permit identifies eight standard permit conditions, which are summarized below:

- The permittee has a duty to comply with all permit conditions and failure to do so is a violation of the permit
- The executive director may revoke or suspend the authorization under this general permit.
- The fact that compliance with the permit conditions may require the permitted activity to be halted or reduced is not a defense for a discharger in an enforcement action.
- The TCEQ shall be allowed inspection and entry to any part of a facility or site as provided in Texas Water Code Chapters 26-28, Health and Safety Code §§ 361.032-361.033 and 361.037, and 40 CFR §122.41(i).
- The discharger is subject to administrative, civil, and criminal penalties under Texas Water Code Chapters 26, 27, and 28, and the Texas Health and Safety Code, Chapter 361 for certain violations.
- Signatory and authorized persons requirements set forth in 30 TAC § 305.128 must be followed for all reports and other information requested by the executive director.
- Authorization under this general permit does not convey property or water rights of any sort and does not grant any exclusive privilege.
- The permittee must implement its SWMP on any new areas under its jurisdiction that are located in a UA within 3 years of acquiring the new area or 5 years from the date of the original SWMP, whichever is later.

4.3.6 Authorization for Municipal Construction Activities

The City of Killeen may apply under the TPDES MS4 general permit for authorization to discharge storm water runoff from each construction activity performed by the City that results in the disturbance of one or more acres of land instead of applying for coverage under the TPDES Construction General Permit. The City of Killeen has decided not to develop the optional seventh minimum control measure for municipal construction activities. This optional 7th minimum control measure may be developed after the submittal of the initial NOI and would require a Notice of Change (NOC) to be submitted to notify the executive director of this change and identify the geographical area or boundary where the activities will be conducted under the provisions of this permit.

5.0 KILLEEN'S PROGRAM FOR THE REQUIRED MINIMUM CONTROL MEASURES

5.1 Public Education and Outreach

An effective public education program can significantly reduce other program costs, such as inspection and enforcement costs for the illicit discharge program. Informed citizens and business owners will usually take steps to reduce potential pollution from their own activities.

As specified in the TCEQ Cover Sheet, the SWMP must include *"the following required elements:*

1. *Educational materials are distributed to the community, or equivalent public outreach is conducted.*
2. *The following groups are included in the program, or the SWMP provides justification if the group is not included: residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel.*
3. *Outreach informs groups about impacts storm water can have on water quality, hazards associated with illegal discharges, and steps they can take to reduce pollutants in storm water runoff."*

The following list of BMPs has been developed to modify the method and message on a regular basis in order to keep the program fresh and effective. The City of Killeen will utilize five different BMPs to inform the public about the impacts that storm water runoff can have on water quality, hazards associated with illegal discharges and the improper disposal of waste, and steps that they can take to reduce pollutants in storm water runoff. Details of each BMP, implementation activities and measurable goals are located in **Section 5.7 Program Summary**.

- PE-1 Public Service Announcements
- PE-2 School Book Covers
- PE-3 Storm Water Brochures
- PE-5 Utility Bill Inserts
- PE-5 Storm Water Web Site

The BMP sheets describe individual BMPs in Killeen's Storm Water Management Program. The City Department that has the primary responsibility for implementing the BMP is listed in Responsible Authority section. The primary department is listed in bold type font and any support departments are listed as unbolded font. The Applicability Section describes those sectors of the public that are targeted by the BMP. Killeen's Public Education BMPs target all six sectors of the public including residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel.

5.2 Public Participation and Involvement

In order for any regulatory program to be successful, especially a program dealing with storm water runoff where program benefits may not be readily apparent, public "buy in" to the regulatory process must be obtained. The only required element of this minimum

control measure is that the SWMP includes a program that complies with State and local public notice requirements.

The following BMPs have been developed to easily allow the public to become involved in this storm water program. Details of each BMP, implementation activities and measurable goals are located in **Section 5.7 Program Summary**.

- PI-1 Storm Water Hotline
- PI-2 Stream Cleanup Projects
- PI-3 Watershed Organizations
- PI-4 Storm Drain Stenciling

The BMP sheets describe individual BMPs in Killeen's Storm Water Management Program. The City Department that has the primary responsibility for implementing the BMP is listed in Responsible Authority section. The primary department is listed in bold type font and any support departments are listed as unbolded font. The Applicability Section describes those sectors of the public that are targeted by the BMP. Killeen's Public Involvement BMPs target all six sectors of the public including residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel.

5.3 Illicit Discharge Detection and Elimination

This program element is designed to ensure the elimination of illegal plumbing connections and illicit pollutant discharges to the City of Killeen's storm water system. The regulatory language for this program element is very prescriptive, and leaves little latitude for regulatory interpretation. However, the City is already performing some of the requirements of this program.

As specified in the TCEQ Cover Sheet, the SWMP must include *"the following required elements:*

1. *Description of program that will be used to detect and eliminate illicit discharges*
2. *Description of the manner and process to be used to effectively prohibit illicit discharges, including, at a minimum:*
 - a. *List of detection techniques*
 - b. *Appropriate actions and enforcement procedures for removing the source of an illicit discharge*
 - c. *To the extent allowable under state and local law, an ordinance or other regulatory mechanism is utilized to prohibit and eliminate illicit discharges*
 - d. *Description of local controls and conditions established for common and incidental non-storm water discharges that the operator does not consider illicit*
3. *Map of outfalls included or described in schedule, with following information:*
 - a. *Locations of all outfalls*
 - b. *Names and locations of waters of the U.S. receiving discharges from the MS4*
 - c. *Source(s) of information used to develop and update map"*

The following list of BMPs includes current and new activities that meet regulatory requirements and will aid Killeen in the elimination of illicit discharges. Details of each BMP, implementation activities and measurable goals are located in **Section 5.7 Program Summary**.

- ID-1 Storm Drain System Mapping
- ID-2 Illicit Discharge Ordinance
- ID-3 Reduce Illegal Dumping
- ID-4 Household Chemical Collection and Recycling
- ID-5 Eliminate Sanitary Sewer Overflows
- ID-6 Dry Weather Screening
- ID-7 Illicit Discharge Investigations
- ID-8 Reduce Failing Septic Systems

The BMP sheets describe individual BMPs in Killeen's Storm Water Management Program. The City Department that has the primary responsibility for implementing the BMP is listed in Responsible Authority section. The primary department is listed in bold type font and any support departments are listed as unbolded font. The Applicability Section describes those sectors of the public that are targeted by the BMP. Killeen's Illicit Discharge BMPs target all six sectors of the public including residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel.

5.4 Construction Site Storm Water Runoff Control

To date, control of construction site runoff has been the most publicly visible element of the storm water program. During a short period of time, construction sites can contribute more sediment to waterways than can be deposited naturally during several decades. Therefore, this minimum control measure may generate more enforcement activity than all other storm water program control elements combined.

As specified in the TCEQ Cover Sheet, the SWMP must include *"the following required elements:*

1. *Description of program that will be developed, implemented and enforced, to address storm water runoff from construction one acre and greater (including larger common plan)*
2. *Ordinance or other regulatory mechanism to require erosion and sediment controls, to the extent allowable under state and local law*
 - a. *Ordinance/regulatory mechanism includes sanctions to ensure compliance, to the extent allowable under state and local law*
 - b. *Program requires contractors to implement erosion and sediment control BMPs*
 - c. *Program requires contractors to control construction site waste*
3. *Procedures for site plan review to consider water quality impacts*
4. *Procedures for receipt and consideration of input from the public*
5. *Procedures for site inspection and enforcement of control measures, to the extent allowable under state and local law"*

The following BMPs meet the regulatory requirements and will enable the City of Killeen to promote and monitor compliance with this program element. Details of each BMP,

implementation activities and measurable goals are located in **Section 5.7 Program Summary**.

- C-1 Erosion Control Ordinance
- C-2 Plan Review Procedures
- C-3 Construction Inspection
- C-4 Construction General Permit Training
- C-5 Development Stakeholder Group

The BMP sheets describe individual BMPs in Killeen's Storm Water Management Program. The City Department that has the primary responsibility for implementing the BMP is listed in Responsible Authority section. The primary department is listed in bold type font and any support departments are listed as unbolded font. The Applicability Section describes those sectors of the public that are targeted by the BMP. Killeen's Construction BMPs target primarily construction site personnel but also provide opportunities for other sectors of the public to provide information to the City regarding construction activities, which may include residents, visitors, public service employees, and owners of businesses or commercial and industrial facilities.

5.5 Post-Construction Storm Water Management in Areas of New Development and Redevelopment

Numerous studies have documented that storm water runoff from developed sites contributes significant pollutant loads to receiving waters. The increase in impervious surfaces such as rooftops, roads, and parking lots can increase urban runoff and have a detrimental impact on aquatic systems due to increased concentrations of sediment, nutrients, road salts, heavy metals, pathogenic bacteria, and petroleum hydrocarbons. The best way to mitigate storm water impacts from new development is to use practices to treat, store, and infiltrate runoff onsite before it can affect downstream waterbodies. Innovative site designs that reduce imperviousness and smaller-scale low impact development practices may be dispersed throughout a site to achieve the goals of reducing flows and improving water quality.

As specified in the TCEQ Cover Sheet, the SWMP must include *"the following required elements:*

1. *SWMP describes program that will be developed, implemented and enforced, to address storm water runoff from new development / redevelopment activities of one acre and greater (including larger common plan)*
2. *Program ensures controls are in place to address runoff*
3. *Strategies include structural and/or non-structural BMPs appropriate for the community*
4. *Ordinance or other regulatory mechanism is in place or planned which will regulate discharges from new development and redevelopment projects*
5. *Long term operation and maintenance of BMPs is addressed"*

To address this issue and comply with the regulatory requirements for this program element, the following BMPs have been selected by the City of Killeen. Details of each

BMP, implementation activities and measurable goals are located in **Section 5.7 Program Summary**.

- PC-1 Post Construction Ordinance
- PC-2 Long Term Operation and Maintenance of BMPs
- PC-3 Development Stakeholder Group
- PC-4 List of Water Quality CIP Projects

The BMP sheets describe individual BMPs in Killeen's Storm Water Management Program. The City Department that has the primary responsibility for implementing the BMP is listed in Responsible Authority section. The primary department is listed in bold type font and any support departments are listed as unbolded font. The Applicability Section describes those sectors of the public that are targeted by the BMP. Killeen's Post-Construction BMPs targets primarily construction site personnel, businesses, and commercial and industrial facilities. The general public including developers, homebuilders, residents and public service employees will be involved in the Development Stakeholder Group process and will provide input on Post-Construction BMPs selected for the City of Killeen and the requirements codified into the Post-Construction ordinance.

5.6 Pollution Prevention/Good Housekeeping for Municipal Operations

Storm water pollution prevention will only be effective if the municipality is "practicing what it preaches". Therefore, the City's storm water program must be founded on achievable pollution prevention measures for the city facilities and field operations.

As specified in the TCEQ Cover Sheet, the SWMP must include *"the following required elements:*

1. *Operation and maintenance (O&M) program in place or scheduled, to reduce/prevent pollution from municipal operations*
2. *Housekeeping measures and BMPs that will reduce pollutants have been identified*
3. *Training provided for employees involved in municipal operations subject to the housekeeping/BMP requirements*
4. *Maintenance of structural BMPs (if applicable) is performed*
 - a. *SWMP lists maintenance schedules for structural BMPs (if applicable)*
 - b. *SWMP lists long term inspection procedures to reduce floatables*
5. *Waste is removed from MS4 and properly disposed*
 - a. *Procedures for waste disposal are included for dredge spoil, accumulated sediment, and floatables*
6. *List of municipal operations subject to O&M program or training program*
7. *List of municipally owned industrial activities subject to TPDES industrial storm water regulations"*

Below is a list of currently performed and new BMPs, which are necessary to meet regulatory requirements for this program element. Details of each BMP, implementation activities and measurable goals are located in **Section 5.7 Program Summary**.



- GH-1 Storm Water Pollution Prevention Training
- GH-2 Municipal Litter Control
- GH-3 Vehicle Maintenance
- GH-4 Vehicle Washing
- GH-5 Vehicle Fueling
- GH-6 Roadway Cleaning
- GH-7 Structural BMP and Storm Drain System Maintenance
- GH-8 Landscape and Lawn Care
- GH-9 Hazardous Materials Storage and Disposal
- GH-10 Used Oil Collection and Recycling
- GH-11 Non-Storm Water Discharge/Dechlorination




The BMP sheets describe individual BMPs in Killeen's Storm Water Management Program. The City Department that has the primary responsibility for implementing the BMP is listed in Responsible Authority section. The primary department is listed in bold type font and any support departments are listed as unbolded font. The Applicability Section describes those sectors of the public that are targeted by the BMP. Killeen's Good Housekeeping and Pollution Prevention BMPs targets exclusively Public Service Employees.



5.7 Program Summary



Included on the following sheet is a listing of the BMPs described above along with the year in which they are to be implemented and the measurable goal for that year. Following the Program Summary sheet are individual sheets that describe each BMP listed in Section 5.

		STORM WATER MANAGEMENT PROGRAM				PROGRAM SUMMARY	
		The table below lists the measurable goals developed for each BMP and the year in which they are to be implemented.					
BMP	DESCRIPTION	8/13/2007 to 8/12/2008	8/13/2008 to 8/12/2009	8/13/2009 to 8/12/2010	8/13/2010 to 8/12/2011	8/13/2011 to 8/12/2012	
PE-1	Public Service Announcements	List of PSA / video sources	24 cable broadcasts	24 cable broadcasts	24 cable broadcasts	24 cable broadcasts	
PE-2	School Book Covers	Purchase order for books	25,000 book covers distributed	25,000 book covers distributed	25,000 book covers distributed	25,000 book covers distributed	
PE-3	Storm Water Brochures	1 list of available brochures 1 list of locations	1 new topical brochure # of brochures distributed	1 new topical brochure # of brochures distributed	1 new topical brochure # of brochures distributed	1 new topical brochure # of brochures distributed	
PE-4	Utility Bill Inserts	2 inserts mailed	2 inserts mailed	2 inserts mailed	2 inserts mailed	2 inserts mailed	
PE-5	Storm Water Web Site	Web site online by end of Year 1	1 updated page	1 new page	1 new page	1 new page	
PI-1	Storm Water Hotline	1 Response Line established List of investigations	List of investigations	List of investigations	List of investigations	List of investigations	
PI-2	Stream Cleanup Projects	none	List of locations inventory of volunteer packet	1 summary flyer at least 1 clean up event	1 summary flyer at least 1 clean up event	1 summary flyer at least 1 clean up event	
PI-3	Watershed Organization	Copies of meeting minutes and Annual Report	Copies of meeting minutes and Annual Report	Copies of meeting minutes and Annual Report	Copies of meeting minutes and Annual Report	Copies of meeting minutes and Annual Report	
PI-4	Storm Drain Stenciling	1 list of vendors 1 mock up packet Selected design	1 summary flyer GIS inset map At least 1 stenciling event	At least 2 stenciling events	At least 2 stenciling events	At least 2 stenciling events	
ID-1	Storm Drain System Mapping	Waters of U.S. Mapped GIS Schema of Attributes	South Nolan Creek (North) watershed mapped	South Nolan Creek (South) watershed mapped	Little Nolan Creek watershed mapped	Reese, Trimmer, Rock Creek watershed mapped	
ID-2	Illicit Discharge Ordinance	1 draft ordinance	1 adopted ordinance	Written enforcement procedures	List of enforcement actions	List of enforcement actions	
ID-3	Reduce Illegal Dumping	List of Investigations	List of Investigations	Number of inserts or brochures List of Investigations	Number of inserts or brochures List of Investigations	Number of inserts or brochures List of Investigations	
ID-4	Household Chemical Collection and Recycling	Copy of promotional material List of material collected	Copy of promotional material List of material collected	Copy of promotional material List of material collected	Copy of promotional material List of material collected	Copy of promotional material List of material collected	
ID-5	Eliminate Sanitary Sewer Overflows	Recommended procedures Clean 350,000 ft / year TV 12,000 ft / year	Clean 350,000 ft / year TV 12,000 ft / year	Clean 350,000 ft / year TV 12,000 ft / year	Clean 350,000 ft / year TV 12,000 ft / year	Clean 350,000 ft / year TV 12,000 ft / year	
ID-6	Dry Weather Screening	List of parameters Purchase order	South Nolan (North) watershed screening map	South Nolan Creek (South) watershed screening map	Little Nolan Creek watershed screening map	Trimmer, Reese, Rock Creek watershed screening maps	
ID-7	Illicit Discharge Investigations	List of investigation types and locations	List of investigation types and locations	List of investigation types and locations	List of investigation types and locations	List of investigation types and locations	
ID-8	Reduce Failing Septic Systems	# of door hanger distributed map of septic systems # of septic system tie-ins	# of door hanger distributed map of septic systems # of septic system tie-ins	# of door hanger distributed map of septic systems # of septic system tie-ins	# of door hanger distributed map of septic systems # of septic system tie-ins	# of door hanger distributed map of septic systems # of septic system tie-ins	
C-1	Erosion Control Ordinance	None	None	Draft ordinance Written procedures	Adopted ordinance	Fully Implemented	
C-2	Plan Review Procedures	Copies of procedures for compliance assessment	Compliance report	Compliance report	Compliance report	Compliance report	
C-3	Construction Inspection	Screen shot of CRM module	Minutes of meetings CRM summary report	Adopted procedures CRM summary report	List of inspections CRM summary report	List of inspections CRM summary report	
C-4	Construction General Permit Training	Attendance sheet from 1 class	Attendance sheets from 2 classes	Copy of promotional material	Copy of promotional material	Copy of promotional material	
C-5	Development Stakeholder Group	Flyers Invitation list	Minutes of 2 meetings	Minutes of 2 meetings	Fully Implemented	Fully Implemented	
PC-1	Post Construction Ordinance	None	Catalog of ordinances	Draft ordinance	Adopted ordinance	Design manual	
PC-2	Long Term Operation and Maintenance of BMPs	Drainage Maintenance Plan Report	List of BMPs and updated maintenance schedule	List of BMPs and updated maintenance schedule	List of BMPs and updated maintenance schedule	List of BMPs and updated maintenance schedule	
PC-3	Development Stakeholder Group	Flyers Invitation list	Minutes of 2 meetings	Minutes of 2 meetings	Fully Implemented	Fully Implemented	
PC-4	List of Water Quality CIP Projects	Major Drainage CIP list	List of water quality CIP components	GIS coverage of water quality CIP components Updated Maintenance Plan	GIS coverage of water quality CIP components Updated Maintenance Plan	GIS coverage of water quality CIP components Updated Maintenance Plan	
GH-1	Storm Water Pollution Prevention Training	BMP/SO manual 1 training per department	Updated manual pages 1 training session	Updated manual pages 1 training session	Updated manual pages 1 training session	Updated manual pages 1 training session	
GH-2	Municipal Litter Control	Litter abatement guidelines	List of dates	List of dates	List of dates	List of dates	
GH-3	Vehicle Maintenance	Document leak detection Fluids disposal invoices	Document leak detection Fluids disposal invoices	Document leak detection Fluids disposal invoices	Document leak detection Fluids disposal invoices	Document leak detection Fluids disposal invoices	
GH-4	Vehicle Washing	Maintenance log	Maintenance log	Maintenance log	Maintenance log	Maintenance log	
GH-5	Vehicle Fueling	UST system report SPCC certification	UST system report	UST system report	UST system report	UST system report	
GH-6	Roadway Cleaning	50,000 lane miles swept	Purchase order for dedicated sweeper 50,000 lane miles swept	50,000 lane miles swept	50,000 lane miles swept	50,000 lane miles swept	
GH-7	Structural BMP & Storm Drain System Maintenance	Disposal procedures Inspection & maintenance reports	GIS coverage Maintenance plan Inspection & maintenance reports	Updated GIS coverage Updated schedule Inspection & maintenance reports	Updated GIS coverage Updated schedule Inspection & maintenance reports	Updated GIS coverage Updated schedule Inspection & maintenance reports	
GH-8	Landscape and Lawn Care	List of training dates Copy of licenses	List of training dates Copy of licenses	List of training dates Copy of licenses	List of training dates Copy of licenses	List of training dates Copy of licenses	
GH-9	Hazardous Materials Storage & Disposal	Written procedures	1 training session List of attendees	1 training session List of attendees	1 training session List of attendees	1 training session List of attendees	
GH-10	Used Oil Collection & Recycling	Inspection log and quantity recycled	Inspection log and quantity recycled	Inspection log and quantity recycled	Inspection log and quantity recycled	Inspection log and quantity recycled	
GH-11	Non-Storm Water Discharges	None	Purchase order for dechlorination equipment	Document use through departmental check out and supply purchases	Document use through departmental check out and supply purchases	Document use through departmental check out and supply purchases	

	<p>PUBLIC SERVICE ANNOUNCEMENTS</p>	<p>PE-1</p>
	<p>DESCRIPTION</p> <p>These are announcements broadcast on local media that will address storm water related topics such as recycling, proper pesticide and fertilizer use, and proper household chemicals disposal. The City of Killeen will pursue utilizing the City's cable access channel. Additional public service announcements will be broadcast in the newspaper to highlight special events such as the special collection events and the Killeen Recycling Center.</p> 	
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Public Information Officer</p>		
<p>APPLICABILITY</p> <p>X Residents</p> <p>X Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>	<p>RATIONALE FOR SELECTION</p> <p>Public service announcements are run on the City's public access channel (Channel 10 – Time Warner cable channel). This BMP is important since it has great potential to reach all groups that the TPDES general permit requires to be informed, including visitors to the City of Killeen. This BMP was also highly recommended by the Storm Water Stakeholders Group, and was the highest priority BMP for public education. The City has run the NCTCOG video on storm water management and EPA's "After the Storm" video on the public access channel.</p> <p>The City's newest government channel program, <i>Talk City</i>, premiered on 7/25/07 on Time Warner Cable Channel 10. <i>Talk City</i> is a talk show format that features episodes about city programs and services valuable to residents of Killeen. <i>Talk City</i> airs on Thursdays at 7 pm and 9 pm. The City has recently developed an episode on drainage and storm water issues.</p>	
<p>YEAR</p>	<p>IMPLEMENTATION ACTIVITY</p>	<p>MEASURABLE GOAL</p>
<p>8/13/2007 to 8/12/2008</p>	<ul style="list-style-type: none"> Review existing PSA messages on related topics 	<p>List of PSA / video sources</p>
<p>8/13/2008 to 8/12/2009</p>	<ul style="list-style-type: none"> Broadcast storm water messages on cable access channel Develop new topic 	<p>24 cable broadcasts</p>
<p>8/13/2009 to 8/12/2010</p>	<ul style="list-style-type: none"> Broadcast storm water messages on cable access channel Develop new topic 	<p>24 cable broadcasts</p>
<p>8/13/2010 to 8/12/2011</p>	<ul style="list-style-type: none"> Broadcast storm water messages on cable access channel Develop new topic 	<p>24 cable broadcasts</p>
<p>8/13/2011 to 8/12/2012</p>	<ul style="list-style-type: none"> Broadcast storm water messages on cable access channel Develop new topic 	<p>24 cable broadcasts</p>
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm "Talk City – Drainage Episode", Channel 10 – Time Warner Cable Channel</p>		

	<h2>SCHOOL BOOK COVERS</h2>		<h2>PE-2</h2>
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Killeen ISD</p>	<p>DESCRIPTION</p> <p>These are paper sheets that are folded over the covers of schoolbooks to protect the books and provide educational information at the same time. These typically have limited amounts of information that is presented in an eye-catching manner that will appeal to children. The messages on these covers can be tailored to specific educational levels and subjects.</p> <div style="display: flex; justify-content: space-around;">   </div>		
<p>APPLICABILITY</p> <p>X Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>	<p>RATIONALE FOR SELECTION</p> <p>These covers can be easily modified to include graphic designs and messages related to storm water, and are an economical way of reaching many people since children will often share the information with their parents.</p>		
<p>YEAR</p>	<p>IMPLEMENTATION ACTIVITY</p>	<p>MEASURABLE GOAL</p>	
<p>8/13/2007 to 8/12/2008</p>	<ul style="list-style-type: none"> Select storm water book cover design Purchase 5 book covers per student (Grades 1 – 6) 	<p>Purchase Order 25,000 book covers</p>	
<p>8/13/2008 to 8/12/2009</p>	<ul style="list-style-type: none"> Select new design Purchase 5 book covers per student (Grades 1 – 6) 	<p>25,000 book covers</p>	
<p>8/13/2009 to 8/12/2010</p>	<ul style="list-style-type: none"> Select new design Purchase 5 book covers per student (Grades 1 – 6) 	<p>25,000 book covers</p>	
<p>8/13/2010 to 8/12/2011</p>	<ul style="list-style-type: none"> Select new design Purchase 5 book covers per student (Grades 1 – 6) 	<p>25,000 book covers</p>	
<p>8/13/2011 to 8/12/2012</p>	<ul style="list-style-type: none"> Select new design Purchase 5 book covers per student (Grades 1 – 6) 	<p>25,000 book covers</p>	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>			

	<h2>STORM WATER BROCHURES</h2>	<p>PE-3</p>
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works</p>	<p>DESCRIPTION</p> <p>These are multi-page printed materials used to convey detailed information on specific topics related to storm water management. The City will coordinate with local businesses to provide additional means of distributing the brochures at designated locations within these businesses. Targeted distribution of brochures will also be used to address specific issues. An example of this would be distributing brochures on the proper disposal of grease in a neighborhood that has been experiencing line blockages due to grease. Brochures will be included in orientation packets for new businesses.</p> 	
<p>APPLICABILITY</p> <p>X Residents</p> <p>X Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>	<p>RATIONALE FOR SELECTION</p> <p>The City of Killeen has already developed several brochures on storm water related topics such as pesticide and fertilizer use, household hazardous waste, and its recycling program. The Storm Water Stakeholders Group suggested coordination with local businesses to provide additional distribution of the brochures, as well as the brochure racks located at City Hall, Bell County Public Health District, Chamber of Commerce and City Departments.</p>	
<p>YEAR</p>	<p>IMPLEMENTATION ACTIVITY</p>	<p>MEASURABLE GOAL</p>
<p>8/13/2007 to 8/12/2008</p>	<ul style="list-style-type: none"> Collect and catalog existing City brochures on related topics Identify potential distribution locations 	<p>1 list of available brochures 1 list of locations</p>
<p>8/13/2008 to 8/12/2009</p>	<ul style="list-style-type: none"> Produce SWMP summary brochure Distribute SWMP summary brochure 	<p>1 summary brochure # of brochures distributed</p>
<p>8/13/2009 to 8/12/2010</p>	<ul style="list-style-type: none"> Produce and distribute 1 new brochure Distribute existing brochures as needed 	<p>1 new topical brochure # of brochures distributed</p>
<p>8/13/2010 to 8/12/2011</p>	<ul style="list-style-type: none"> Produce and distribute 1 new brochure Distribute existing brochures as needed 	<p>1 new topical brochure # of brochures distributed</p>
<p>8/13/2011 to 8/12/2012</p>	<ul style="list-style-type: none"> Produce and distribute 1 new brochure Distribute existing brochures as needed 	<p>1 new topical brochure # of brochures distributed</p>
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>		

	UTILITY BILL INSERTS		PE-4
	<p>DESCRIPTION</p> <p>These are short printed inserts that are included in Killeen's water utility bill to educate the public with brief and concise information on a variety of storm water related topics. The following messages are suggested for utility bill inserts:</p> <ul style="list-style-type: none"> • Several inserts to explain the storm water utility fee (if modified) • Advertisement of the City's used oil recycling program (Killeen Recycling Center) • Several inserts before and after the passage of the illicit discharge ordinance • Regular inserts advertising the Drainage Utility Office's Response Line (Hotline) • Advertise CTCOG Regional Collection Events 		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Utility Collection</p>	<p>RATIONALE FOR SELECTION</p> <p>This BMP was highly rated by the Storm Water Stakeholders Group. Utility bill inserts are a preferred educational media and was the second highest priority BMP for public education.</p>		
<p>APPLICABILITY</p> <p>X Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>Construction</p>			
<p>YEAR</p>	<p>IMPLEMENTATION ACTIVITY</p>	<p>MEASURABLE GOAL</p>	
<p>8/13/2007 to 8/12/2008</p>	<ul style="list-style-type: none"> • Develop storm water message introducing the Drainage Utility 	<p>2 inserts mailed</p>	
<p>8/13/2008 to 8/12/2009</p>	<ul style="list-style-type: none"> • Publicize new illicit discharge ordinance • Advertise Drainage Utility Response Line (Hotline) 	<p>2 inserts mailed</p>	
<p>8/13/2009 to 8/12/2010</p>	<ul style="list-style-type: none"> • Publicize Regional Household Hazardous Waste Collection events • Advertise stenciling event 	<p>2 inserts mailed</p>	
<p>8/13/2010 to 8/12/2011</p>	<ul style="list-style-type: none"> • Develop message targeting illegal dumping • Advertise stenciling event 	<p>2 inserts mailed</p>	
<p>8/13/2011 to 8/12/2012</p>	<ul style="list-style-type: none"> • Develop focused commercial message • Advertise stenciling event 	<p>2 inserts mailed</p>	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>			



STORM WATER WEB SITE

PE-5

RESPONSIBLE AUTHORITY

Public Works
City Webmaster

DESCRIPTION

The City has developed a Storm Water Training page on its existing web site that specifically addresses storm water related issues. This page provides a great deal of information including links to various state and federal related sites. An interactive form through the City's Citizen Relationship Management (CRM) module will also be used as an additional "hotline" opportunity for citizens to report storm water problems or concerns. The City also uses the Web Site to distribute storm water brochures such as "After the Storm: A Citizen's Guide to Understanding Storm Water".



APPLICABILITY

- X Residents
- X Visitors
- X Public Service Employees
- X Businesses
- X Commercial/Industrial
- X Construction

RATIONALE FOR SELECTION

The City of Killeen currently maintains a web site with a Storm Water Training page with links from several of the existing department pages. This Storm Water Training page is an excellent tool for relaying an unlimited amount of information. The web page will be supplemented with additional information such as frequently asked questions, information on the City's Used Oil Collection and Recycling Program, proper septic system maintenance, and current public involvement activity schedules.



Several brochures in pdf format are distributed on-line. Links are provided for additional information including the North Central Texas Council of Governments Integrated Storm Water Management (iSWM™) Design Manual, National Storm Water Best Management Practices (BMP) Database, and National Association of Home Builders.



The Storm Water Training Page also promotes upcoming regional training activities hosted by City, EPA, TCEQ, and CTCOG and local initiatives of the Lake Stillhouse Hollow Clean Water Steering Committee.


YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> • Initial development of storm water web site • Establish links from related departmental pages • Develop Storm Water Training page 	Web site online by end of Year 1
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> • Publicize existing regional Household Hazardous Waste collection events • Publicize the Drainage Utility Response Line (hotline) • Add storm water activities to existing calendar page 	1 updated page
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> • Develop new web page devoted to informing the public about new construction requirements and BMPs 	1 new page
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> • Develop new web page devoted to informing the public about new post-construction requirements and BMPs 	1 new page
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> • Develop a Kid's Page for Storm Water Topics 	1 new page

REFERENCES


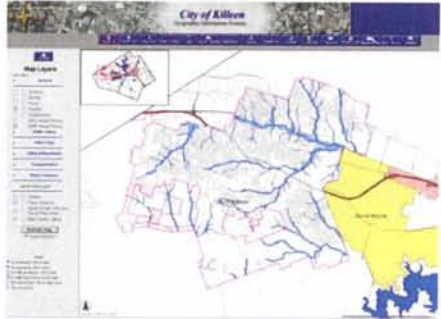
USEPA, 2002. *National Menu of Best Management Practices*. <http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm>
 City of Killeen, 2007. *Storm Water Training Web page*, <http://www.ci.killeen.tx.us/index.php?section=117>



	<h2>STORM WATER HOTLINE</h2>		<h2>PI-1</h2>
RESPONSIBLE AUTHORITY Public Works Drainage Utility	<p>DESCRIPTION</p> <p>The City of Killeen has established a Drainage Utility Response Line as a storm water hotline for reporting potential violations. This number is a local number and is available 24 hours a day. The Drainage Utility Response Line is promoted through several of the previously mentioned public education BMPs. Drainage Utility personnel respond and investigate these calls and refer the issue to other city departments, if necessary. An interactive form through the City's Citizen Relationship Management (CRM) module will also be used as an additional "hotline" opportunity for citizens to report storm water problems or concerns.</p>		
<p style="text-align: center;">APPLICABILITY</p> <p>X Residents</p> <p>X Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>	<p>RATIONALE FOR SELECTION</p> <p>Storm Water Hotlines provide citizens with an avenue to voice concerns and report potential violations to the appropriate authorities. Killeen can easily use an existing phone line to establish this service; however, an investigation and response must be made for each call. The responses to each call will be handled by Drainage Utility, which will have appropriate training for environmental concerns or violations.</p>		
YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Set up Drainage Utility Response Line documentation and response procedures Publicize Drainage Utility Response Line Track complaint investigations from Response Line 	1 Response Line established List of investigations	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Publicize Drainage Utility Response Line Track complaint investigations from Response Line 	List of investigations	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Publicize Drainage Utility Response Line Track complaint investigations from Response Line 	List of investigations	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Publicize Drainage Utility Response Line Track complaint investigations from Response Line 	List of Investigations	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Publicize Drainage Utility Response Line Track complaint investigations from Response Line 	List of Investigations	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p> <p>City of Killeen, 2007. <i>Citizen Relationship Management (CRM)</i>. http://crm.ci.killeen.tx.us/web/</p>			



	STREAM CLEANUP PROJECTS		PI-2
	<p>DESCRIPTION</p> <p>The City of Killeen will coordinate stream cleanup projects with various local volunteer groups and organizations through the Beautify Killeen Committee. Specific sites will be selected based on impact by trash, especially those areas with heavy pedestrian and vehicular traffic for optimum aesthetic improvement. Access will also guide site selection for convenience of the volunteers and to minimize permission requirements.</p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Solid Waste</p>	<p>APPLICABILITY</p> <p>RATIONALE FOR SELECTION</p> <p>Stream cleanup projects are a great way to improve aquatic habitat, water quality, and aesthetics while promoting storm water awareness. This BMP is generally inexpensive and the Beautify Killeen Committee can coordinate the participation of volunteer groups and organizations. Some of these groups may have similar agendas and may already sponsor such cleanup projects. The City has participated in Cleanup Projects sponsored by the Lake Stillhouse Hollow Clean Water Steering Committee in the past and will continue to participate and advertise these events to the general public through the public education BMPs. Stream cleanup projects do not require a long-term commitment by the organizations, which makes this BMP more appealing to citizens or groups. The Storm Water Stakeholders Group selected Stream Cleanup Projects as the highest priority BMP for Public Involvement and Participation.</p>		
<p>X Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>			
YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Participate in and advertise cleanup projects of the Lake Stillhouse Hollow Clean Water Steering Committee 	Dates of cleanup projects and number of participants	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Note potential cleanup locations during dry weather screening Develop guidance materials 	List of locations Inventory of volunteer packet	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Advertise program to organizations Note potential locations during dry weather screening Schedule and hold first cleanup event 	1 summary flyer at least 1 clean up event	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Advertise program to organizations Note potential locations during dry weather screening Schedule and hold one cleanup event 	1 summary flyer at least 1 clean up event	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Advertise program to organizations Note potential locations during dry weather screening Schedule and hold one cleanup event 	1 summary flyer at least 1 clean up event	
REFERENCES			
USEPA, 2002. <i>National Menu of Best Management Practices</i> . http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm Virginia Adopt-A-Stream Program, Department of Conservation and Recreation, Powell Valley High School students			




	<p>WATERSHED ORGANIZATION</p>	<p>PI-3</p>																		
	<p>DESCRIPTION</p> <p>The City participates in the Lake Stillhouse Hollow Clean Water Steering Committee. The Committee was established in December of 2003 and was chartered as a nonprofit organization on November 8, 2004 for the purpose of surface water protection in the Stillhouse Hollow Lake and Lampasas River. Membership of the Committee is comprised of 36 members including private land owners, industry professionals, utility staff members, elected officials, regional agency representatives, and private companies. Visitors are also welcome at the meetings.</p> <p>The goal of the Committee is to educate the public in protecting water quality in the area by identifying issues and concerns in the watershed, communicating water resources issues to the public and enhancing public participation and outreach activities. The Committee has several initiatives that benefit the citizens of Killeen. The Committee has participated in household hazardous waste collection and recycling events in Killeen, shoreline clean-up projects, distributed "fish" door hangers with tips for protecting surface water, hosted informational booths at the Bell County Water Symposium and Fort Hood Earth Day events. The Committee meets on the fourth Thursday of each month. The City participates in meetings and outreach initiatives.</p>																			
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works</p>	<p>RATIONALE FOR SELECTION</p> <p>The City currently sends a representative to monthly meetings and participates in the Lake Stillhouse Hollow Clean Water Steering Committee initiatives and outreach activities. The goals of the Committee are consistent with the public involvement and outreach goals of the City.</p>																			
<p>APPLICABILITY</p> <p>X Residents</p> <p>X Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>	<table border="1"> <thead> <tr> <th data-bbox="149 1182 337 1247">YEAR</th> <th data-bbox="337 1182 1109 1247">IMPLEMENTATION ACTIVITY</th> <th data-bbox="1109 1182 1487 1247">MEASURABLE GOAL</th> </tr> </thead> <tbody> <tr> <td data-bbox="149 1247 337 1362">8/13/2007 to 8/12/2008</td> <td data-bbox="337 1247 1109 1362"> <ul style="list-style-type: none"> Attend monthly meetings </td> <td data-bbox="1109 1247 1487 1362">Meeting minutes Steering Committee 2007 Annual Report</td> </tr> <tr> <td data-bbox="149 1362 337 1470">8/13/2008 to 8/12/2009</td> <td data-bbox="337 1362 1109 1470"> <ul style="list-style-type: none"> Attend monthly meetings </td> <td data-bbox="1109 1362 1487 1470">Meeting minutes Steering Committee 2008 Annual Report</td> </tr> <tr> <td data-bbox="149 1470 337 1575">8/13/2009 to 8/12/2010</td> <td data-bbox="337 1470 1109 1575"> <ul style="list-style-type: none"> Attend monthly meetings </td> <td data-bbox="1109 1470 1487 1575">Meeting minutes Steering Committee 2009 Annual Report</td> </tr> <tr> <td data-bbox="149 1575 337 1680">8/13/2010 to 8/12/2011</td> <td data-bbox="337 1575 1109 1680"> <ul style="list-style-type: none"> Attend monthly meetings </td> <td data-bbox="1109 1575 1487 1680">Meeting minutes Steering Committee 2010 Annual Report</td> </tr> <tr> <td data-bbox="149 1680 337 1780">8/13/2011 to 8/12/2012</td> <td data-bbox="337 1680 1109 1780"> <ul style="list-style-type: none"> Attend monthly meetings </td> <td data-bbox="1109 1680 1487 1780">Meeting minutes Steering Committee 2011 Annual Report</td> </tr> </tbody> </table>		YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Attend monthly meetings 	Meeting minutes Steering Committee 2007 Annual Report	8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Attend monthly meetings 	Meeting minutes Steering Committee 2008 Annual Report	8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Attend monthly meetings 	Meeting minutes Steering Committee 2009 Annual Report	8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Attend monthly meetings 	Meeting minutes Steering Committee 2010 Annual Report	8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Attend monthly meetings 	Meeting minutes Steering Committee 2011 Annual Report
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<p>REFERENCES</p> <p>Lake Stillhouse Hollow Clean Water Steering Committee, <i>Annual Report 2006</i></p>																				


		STORM DRAIN STENCILING	PI-4
		<p>DESCRIPTION</p> <p>This activity consists of volunteers affixing plastic buttons with a "don't dump" message to storm drain inlets or painting a "don't dump" message on the inlet with a stencil. This stenciling effort will focus on older areas of the city and those areas known to be more problematic. Students and involved community citizens can stencil inlets through community involvement projects organized by the Keep Killeen Beautiful Committee. Killeen will utilize as many organizations as possible including Boy Scouts and Girl Scouts to stencil the inlets. Establishing this BMP in this manner will provide many educational opportunities.</p>	
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works</p>		 	
<p>APPLICABILITY</p> <p>X Residents</p> <p>X Visitors</p> <p>Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>Construction</p>			
		<p>RATIONALE FOR SELECTION</p> <p>Storm drain stenciling has been used by many municipalities and is generally a very effective BMP that is relatively inexpensive and easy to implement. The effectiveness of this activity multiplies when various volunteer groups and organizations are utilized to stencil the inlets. The Storm Water Stakeholders Group selected this as the third highest priority BMP for Public Involvement and Participation.</p>	
YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> List of vendors/resources for available materials and techniques Develop guidance materials Select graphic design 	List of vendors 1 mock up packet Selected design	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Advertise program to organizations Develop stenciled inlet GIS coverage Hold first stenciling event 	1 summary flyer GIS inlet map At least 1 stenciling event	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Advertise program to organizations Hold / sponsor stenciling events Update stenciled inlet GIS coverage 	At least 2 stenciling events	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Advertise program to organizations Hold / sponsor stenciling events Update stenciled inlet GIS coverage 	At least 2 stenciling events	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Advertise program to organizations Hold / sponsor stenciling events Update stenciled inlet GIS coverage 	At least 2 stenciling events	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p> <p>North Central Texas Council of Governments, Storm Drain Curb Marking Program, http://www.dfwstromwater.com/fy2k/curbmarker.html</p> <p>City of Fort Worth, Environmental Management Department, http://www.fortworthgov.org/DEM/fishsign.htm</p>			



		STORM DRAIN SYSTEM MAPPING	ID-1
		<p>DESCRIPTION</p> <p>The City of Killeen has implemented a city-wide GIS system. Precise locations of the outfalls will be recorded through the use of a Global Positioning System (GPS) or through field verification. This map will be a living document and will be supplemented on an as needed basis. Since there are five watersheds in Killeen, the City will work to complete the mapping on a watershed basis. The largest of these watersheds is the South Nolan Creek, which will be split into two areas. The City will focus on South Nolan Creek North of Highway 190 in Year 2 and South Nolan Creek South of Highway 190 in Year 3. The remaining watersheds will be mapped in Years 4 and 5.</p> 	
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works GIS Coordinator</p>		<p>RATIONALE FOR SELECTION</p> <p>A storm drain system map is a required component of this minimum control measure and must identify the locations of all outfalls to the MS4 and the names and locations of the surface waters to which they drain. The City of Killeen currently has a GIS mapping program that includes the drainage system and other feature classes.</p>	
<p>APPLICABILITY</p> <p>X Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>Construction</p>			
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Identify Waters of the U.S. within the City Limits for outfall designation Identify attributes to be populated in the GIS database 		Waters of U.S. Map GIS schema of attributes
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Digitize available existing data Input data from plans and GPS field data 		South Nolan Creek (North) watershed mapped
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Digitize available existing data Input data from plans and GPS field data 		South Nolan Creek (South) watershed mapped
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Digitize available existing data Input data from plans and GPS field data 		Little Nolan watershed mapped
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Digitize available existing data Input data from plans and GPS field data 		Trimmier, Reese and Rock Creek watersheds mapped
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm City of Killeen Web GIS, http://www.gis.ci.killeen.tx.us/website/AdhocQuery/viewer.html</p>			

	ILLICIT DISCHARGE ORDINANCE		ID-2
	<p>DESCRIPTION</p> <p>The City of Killeen will modify existing ordinances or implement new ordinances to prohibit illicit discharges and illegal connections to the MS4, as well as sanctions to ensure compliance, to the extent allowable under State and local law.</p> 		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works City Attorney</p>			
<p>APPLICABILITY</p> <p>X Residents</p> <p>X Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>	<p>RATIONALE FOR SELECTION</p> <p>Since the Phase II TPDES regulations require the establishment of a regulatory mechanism, the City will need to strengthen its existing ordinances to specifically prohibit illicit discharges and illegal connections to the MS4.</p>		
YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Draft an illicit discharge ordinance 	1 draft ordinance	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Adopt the illicit discharge ordinance 	1 adopted ordinance	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Develop appropriate actions and enforcement procedures to bring various industries into compliance with the ordinance 	Written enforcement procedures	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Track enforcement actions 	List of enforcement actions	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Track enforcement actions 	List of enforcement actions	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>			

		REDUCE ILLEGAL DUMPING	ID-3
		<p>DESCRIPTION</p> <p>The reduction and elimination of illegal dumping in Killeen will depend on the successful implementation of many of the previously discussed BMPs. Killeen will rely heavily on public education by utilizing utility bill inserts, public service announcements and brochures to inform citizens of the environmental concerns and legal implications of illegal dumping. More stringent ordinances and fines for violators and the efforts of the Code Enforcement department will enhance this program.</p> 	
<p>RESPONSIBLE AUTHORITY</p> <p>Code Enforcement Public Works</p>		<p>RATIONALE FOR SELECTION</p> <p>As programs to address illegal dumping are also specifically required for all Phase II cities, Killeen will implement a targeted public education program, using several of the recommended BMPs for the public education minimum control measure. The Code Enforcement department will be used to investigate and enforce illegal dumping violations. The City has ordinances related to illegal dumping and has been enforcing violations. Last year (10/2006 – 10/2007) the Code Enforcement Division investigated over 100 cases of illegal dumping and charged 65 violators under Sec. 18-24 Littering by depositing or dumping. Notices were also given to over 800 property owners for violations of Sec. 18-23 Accumulation of litter, trash, or rubbish.</p>	
<p>APPLICABILITY</p> <p>X Residents</p> <p>X Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>			
YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Track enforcement of illegal dumping ordinance 	List of Investigations	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Track enforcement of illegal dumping ordinance 	List of Investigations	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Distribute educational materials Track enforcement of illegal dumping ordinance 	Number of inserts or brochures List of Investigations	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Distribute educational materials Track enforcement of illegal dumping ordinance 	Number of inserts or brochures List of Investigations	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Distribute educational materials Track enforcement of illegal dumping ordinance 	Number of inserts or brochures List of Investigations	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>			

		<h2>HOUSEHOLD CHEMICAL COLLECTION AND RECYCLING</h2>	<p>ID-4</p>
		<p>DESCRIPTION</p> <p>The City of Killeen currently operates and maintains the Killeen Recycling Center at 111 E. Avenue F, which accepts used motor oil, antifreeze and batteries as well as paper, cans and glass. Additionally, the City participates in annual household hazardous waste collection days for the proper disposal of items such as paints, pesticides, fertilizers and other household chemicals.</p>	
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Killeen Recycling Center</p>			
<p>APPLICABILITY</p> <p>X Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>		<p>City of Killeen used oil collection sites are located at:</p> <ul style="list-style-type: none"> • Solid Waste Transfer Station at SH 195 • Killeen Recycling Center (KRC) at 111 East Avenue F, and • Skylark Field Airport, Airport Drive 	
		<p>RATIONALE FOR SELECTION</p> <p>Household chemicals are an important issue for the City of Killeen, as the improper disposal of these materials into the sanitary sewer or storm drain system can pose significant risks to human health and the environment. This BMP was recommended by the Storm Water Stakeholders Group, and was the third highest priority voluntary BMP for Illicit Discharge Detection and Elimination.</p>	
YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> • Continue to promote the Recycling Center and Annual Collection Days • Document quantity of materials collected 	Copy of promotional material List of collected materials from City Recycling Centers	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> • Continue to promote the Recycling Center and Annual Collection Days • Document quantity of materials collected 	Copy of promotional material List of collected materials from City Recycling Centers	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> • Continue to promote the Recycling Center and Annual Collection Days • Document quantity of materials collected 	Copy of promotional material List of collected materials from City Recycling Centers	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> • Continue to promote the Recycling Center and Annual Collection Days • Document quantity of materials collected 	Copy of promotional material List of collected materials from City Recycling Centers	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> • Continue to promote the Recycling Center and Annual Collection Days • Document quantity of materials collected 	Copy of promotional material List of collected materials from City Recycling Centers	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p> <p>Center for Watershed Protection, 2002. <i>The Practice of Watershed Protection</i>. editors Thomas R. Schueler and Heather K. Holland, Center for Watershed Protection, Ellicott City, MD.</p>			

		<p>ELIMINATE SANITARY SEWER OVERFLOWS</p>		<p>ID-5</p>
		<p>DESCRIPTION</p> <p>The City will continue to work towards eliminating sanitary sewer overflows (SSOs). These overflows can be caused by a number of factors including temporary blockages, flooding, and insufficient sewer capacity. Investigations have been conducted by the City to determine the causes of the SSOs and great progress has been made in reducing these overflows.</p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Water and Sewer Utilities</p>		<p>APPLICABILITY</p> <p>X Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>Construction</p>		
		<p>RATIONALE FOR SELECTION</p> <p>The detection and correction of sanitary sewer overflows is a mandatory requirement for all Phase II cities. Fortunately, the City of Killeen has already been addressing this issue. Over the past several years, the City has utilized various inflow detection techniques and has been successful in locating and correcting many problems. The City will continue this program to eliminate SSOs. The Storm Water Stakeholders Group recommended that the City continue its existing program.</p>		
<p>YEAR</p>		<p>IMPLEMENTATION ACTIVITY</p>		<p>MEASURABLE GOAL</p>
<p>8/13/2007 to 8/12/2008</p>		<ul style="list-style-type: none"> Develop Infiltration and Inflow (I&I) Program Cleaning of sanitary sewer system TV inspection of sanitary sewer mains 		<p>Recommended Procedures Clean 350,000 ft / year TV 12,000 ft / year</p>
<p>8/13/2008 to 8/12/2009</p>		<ul style="list-style-type: none"> Cleaning of sanitary sewer system TV inspection of sanitary sewer mains 		<p>Clean 350,000 ft / year TV 12,000 ft / year</p>
<p>8/13/2009 to 8/12/2010</p>		<ul style="list-style-type: none"> Cleaning of sanitary sewer system TV inspection of sanitary sewer mains 		<p>Clean 350,000 ft / year TV 12,000 ft / year</p>
<p>8/13/2010 to 8/12/2011</p>		<ul style="list-style-type: none"> Cleaning of sanitary sewer system TV inspection of sanitary sewer mains 		<p>Clean 350,000 ft / year TV 12,000 ft / year</p>
<p>8/13/2011 to 8/12/2012</p>		<ul style="list-style-type: none"> Cleaning of sanitary sewer system TV inspection of sanitary sewer mains 		<p>Clean 350,000 ft / year TV 12,000 ft / year</p>
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p> <p>Center for Watershed Protection, 2002. <i>The Practice of Watershed Protection</i>. editors Thomas R. Schueler and Heather K. Holland, Center for Watershed Protection, Ellicott City, MD.</p> <p>U.S. EPA Region 6, James L. Graham, Jr, P.E., Chief of NPDES Enforcement TX/NM, http://www.epa.gov/earth1r6/6en/w/sso/sso.htm</p>				

		DRY WEATHER SCREENING	ID-6
		<p>DESCRIPTION</p> <p>The City of Killeen staff will walk creeks during dry weather periods to make visual inspections and perform limited chemical analysis with field test kits to monitor for the presence of certain chemicals or pollutants. If the chemical analysis indicates a concentration of pollutant that is above the allowable threshold limits, further investigation will be required. The City's existing GPS equipment will be used to document the location of the field tests, allowing them to be related to locations on the GIS storm drain system map for future reference and to document precise locations if environmental concerns are identified.</p> 	
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Drainage Utility</p>		<p>RATIONALE FOR SELECTION</p> <p>Dry weather screening was the highest recommended BMP by the Storm Water Stakeholders Group and will provide the initial level of detection for illegal connections to the MS4 from industrial or business wastewater sources. This type of screening can be readily implemented by City staff and can enhance public involvement by potentially performing screening in areas identified through citizen input via the Drainage Utility Response Line (hotline) or on-line Citizen Relationship Management (CRM).</p>	
<p>APPLICABILITY</p> <p>X Residents</p> <p>Visitors</p> <p>Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>			
YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Decide which parameters to test for Review and purchase testing kits 	List of parameters Purchase order	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Walk accessible reaches of stream, performing testing, documenting testing locations, and verifying GIS system map. 	South Nolan Creek (North) screening map	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Walk accessible reaches of stream, performing testing, documenting testing locations, and verifying GIS system map. 	South Nolan Creek (South) screening map	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Walk accessible reaches of stream, performing testing, documenting testing locations, and verifying GIS system map. 	Little Nolan screening map	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Walk accessible reaches of stream, performing testing, documenting testing locations, and verifying GIS system map. 	Trimmier, Reese and Rock Creek screening map	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>			

	<h2>ILLICIT DISCHARGE INVESTIGATIONS</h2>		<h3>ID-7</h3>
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Drainage Utility</p>	<p>DESCRIPTION</p> <p>Fluorescent dye testing is a method of detecting illegal connections through the flushing of colored or fluorescent dye into drain water in suspect pipes. The presence of this dye in storm drain discharges would confirm the presence of an illegal connection.</p>   <p>Smoke testing involves the injection of non-toxic zinc chloride smoke in sewer manholes. Observations of smoke escaping through storm drain inlets indicate illegal connections.</p>  <p>Remote TV camera inspections are used more commonly to detect illegal connections of business wastewater to the storm drain system. This method can detect improper connections such as cross-connections and also allows city employees to examine the physical condition of the manholes and storm sewer lines.</p>		
<p>APPLICABILITY</p> <p>X Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>	<p>RATIONALE FOR SELECTION</p> <p>The City of Killeen is currently using all three of these techniques for illicit discharge detection investigations. City staff has the ability to perform fluorescent dye testing and remote TV camera inspection, while smoke testing services are contracted. The Storm Water Stakeholders Group recommended that the City continue to use these methods on an as needed basis to track down illegal connections to the MS4, utilizing the method that is most appropriate for each situation encountered.</p>		
<p>YEAR</p>	<p>IMPLEMENTATION ACTIVITY</p>	<p>MEASURABLE GOAL</p>	
<p>8/13/2007 to 8/12/2008</p>	<ul style="list-style-type: none"> Conduct investigations as needed based on dry weather screening and citizen complaints (CRM and Drainage Utility Response Line) 	<p>List of investigation types and locations</p>	
<p>8/13/2008 to 8/12/2009</p>	<ul style="list-style-type: none"> Conduct investigations as needed based on dry weather screening and citizen complaints (CRM and Drainage Utility Response Line) 	<p>List of investigation types and locations</p>	
<p>8/13/2009 to 8/12/2010</p>	<ul style="list-style-type: none"> Conduct investigations as needed based on dry weather screening and citizen complaints (CRM and Drainage Utility Response Line) 	<p>List of investigation types and locations</p>	
<p>8/13/2010 to 8/12/2011</p>	<ul style="list-style-type: none"> Conduct investigations as needed based on dry weather screening and citizen complaints (CRM and Drainage Utility Response Line) 	<p>List of investigation types and locations</p>	
<p>8/13/2011 to 8/12/2012</p>	<ul style="list-style-type: none"> Conduct investigations as needed based on dry weather screening and citizen complaints (CRM and Drainage Utility Response Line) 	<p>List of investigation types and locations</p>	
<p>REFERENCES</p>			
<p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>			



REDUCE FAILING SEPTIC SYSTEMS

ID-8

DESCRIPTION

Bell County Public Health District is responsible for permitting and regulation of the septic systems within Bell County. Killeen will reduce failing septic systems by promoting proper care and maintenance through public education BMPs. In the past, the City has supported the Stillhouse Hollow Lake Clean Water Steering Committee with the distribution of information on proper septic system maintenance. The City of Killeen also maps the locations of the septic systems within the city limits and ETJ for planning and prioritization of areas targeted for its septic tank elimination program.



RESPONSIBLE AUTHORITY

Public Works

APPLICABILITY

- X Residents
- Visitors
- Public Service Employees
- Businesses
- Commercial/Industrial
- Construction

RATIONALE FOR SELECTION


Septic systems in the City of Killeen must comply with the TCEQ's On Site Sewage Facility (OSSF) program. The City can use many of the public education BMPs to educate the public on proper care and maintenance. The City also has an ongoing program to eliminate septic systems within its jurisdiction by connecting areas to the sanitary sewer. The City installs the sewer mains to an area and the resident pays a tap fee for connection.


The Storm Water Stakeholders Group selected this BMP as the fifth highest priority voluntary BMP for Illicit Discharge Detection and Elimination. This BMP was also selected due to water quality impairments noted for South Nolan Creek. TCEQ has listed the South Nolan Creek on its impaired water list (i.e., 303(d) list) and may schedule a Total Maximum Daily Load analysis in the future if water quality does not meet State Standards.


YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> • Distribution of CTCOG Door Hangers • Develop a GIS coverage of lots with septic systems • Implementation of septic tank elimination program 	# of door hanger distributed map of septic systems # of septic system tie-ins
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> • Refine and distribute proper septic system care door hangers • Update map of new sewers conversions • Continuation of septic tank elimination program 	# of door hanger distributed map of septic systems # of septic system tie-ins
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> • Provide proper septic system care door hangers • Update map of new sewers conversions • Continuation of septic tank elimination program 	# of door hanger distributed map of septic systems # of septic system tie-ins
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> • Provide proper septic system care door hangers • Update map of new sewers conversions • Continuation of septic tank elimination program 	# of door hanger distributed map of septic systems # of septic system tie-ins
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> • Provide proper septic system care door hangers • Update map of new sewers conversions • Continuation of septic tank elimination program 	# of door hanger distributed map of septic systems # of septic system tie-ins


REFERENCES



USEPA, 2002. *National Menu of Best Management Practices*. <http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm>


		EROSION CONTROL ORDINANCE	C-1
		<p>DESCRIPTION</p> <p>The City will implement a new ordinance to require erosion and sediment controls (ESC), as well as sanctions to ensure compliance, to the extent allowable under State and local law.</p> <p>Enforcement and tracking of compliance with the new ordinance will be accomplished through Plan Review Procedures (C-2) or Construction Inspections (C-3). Input from the Development Stakeholder Committee (C-5) will be used to guide the requirements specified in the erosion control ordinance. The ordinance will also require overall construction site waste management.</p>	
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works City Attorney</p>			
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>X Construction</p>		<p>RATIONALE FOR SELECTION</p> <p>This TPDES General Permit requires the establishment of a regulatory mechanism for enforcement. The City already has several provisions in its existing ordinances that lay the groundwork for this mechanism. The City will strengthen its existing Land Disturbance ordinance to require the submittal of the Construction General Permit Notice of Intent form with preliminary development plans, include specific BMPs identified by the Development Stakeholder Group, and control of construction wastes.</p>	
YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> None 	N/A	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> None 	N/A	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Develop "Draft" Construction ESC Ordinance Develop standardized procedures for receipt and consideration of information submitted by the public 	Draft ordinance Written procedures	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Based on input from the Developer's Stakeholder Committee, finalize the erosion control ordinance to meet the requirements of the TPDES Construction General Permit 	Adopted ordinance	
8/13/2011 to 8/12/2012	Fully implemented	N/A	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>			


		PLAN REVIEW PROCEDURES	C-2
		<p>DESCRIPTION</p> <p>As part of its development review procedures, the City of Killeen will review construction plans, including Storm Water Pollution Prevention Plans (SWPPPs) and Land Disturbance plans. For commercial developments, the City utilizes a review checklist that includes drainage quantity considerations as well as compliance with the City's Land Disturbance ordinance. To determine the effectiveness of the CGP training and gauge the need for additional CGP training, the City will monitor the percentage of initial submittals that comply with the TPDES CGP and City Land Disturbance ordinance. The City will develop procedures to consider water quality as well as quantity impacts during plan review. The City will add Standard Issues to the City's on-line tool called Citizen Relationship Management (CRM) to receive input from citizens on construction site issues. Comments from the public will also be collected via the Drainage Utility's Response Line (hotline, PI-1) and referred to the Plan Review staff, as necessary.</p>	
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works</p>		<p>RATIONALE FOR SELECTION</p> <p>The Phase II TPDES regulations require the establishment of plan review procedures that consider potential water quality impacts. The Public Works Department currently performs review of development plans. This procedure appears to be effective and will continue until a more detailed erosion control ordinance (see C-1) can be developed and adopted, with an additional requirement to provide a copy of the TPDES CGP NOI when applicable. An important component of this review process is well-organized documentation of all activities.</p>	
<p>APPLICABILITY</p> <p>X Residents</p> <p>X Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>			
YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Establish procedures to track compliance with the CGP and the City's Land Disturbance ordinance 	Copies of procedures for compliance assessment	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Track compliance with the CGP and the City's Land Disturbance ordinance 	Compliance report	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Track compliance with the CGP and the City's Land Disturbance ordinance 	Compliance report	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Track compliance with the CGP and the City's new erosion / sediment control ordinance 	Compliance report	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Track compliance with the CGP and the City's new erosion / sediment control ordinance 	Compliance report	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>			



		CONSTRUCTION INSPECTION		C-3
		<p>DESCRIPTION</p> <p>The Public Works Engineering staff perform construction inspections of public infrastructure and the Permits and Inspections staff perform inspections of private infrastructure. The coordination of two city departments is required to fully implement this BMP. To facilitate construction inspections, the City will establish points during the development process at which inspections must be performed before the process can continue. The City will form a multi-departmental work group to develop the inspection procedures and define responsibilities.</p> <p>The City will train its building inspectors to perform visual storm water BMP inspections in conjunction with building inspections, and refuse to perform further building inspections until storm water issues have adequately been resolved.</p> <p>The City will add Standard Issues to the City's web-based tool called Citizen Relationship Management (CRM) to receive input from the public on construction site issues. Comments from the public will also be collected via the Drainage Utility's Response Line (hotline) and referred to the Construction Inspection staff, as necessary.</p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Permits and Inspections</p>				
<p>APPLICABILITY</p> <p>X Residents</p> <p>X Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>				
		<p>RATIONALE FOR SELECTION</p> <p>The City's current Land Disturbance permit application requires developers to submit a copy of their NOI and SWPPP to the City for disturbed areas of 1 acre or greater. The City currently performs construction inspections for Land Disturbance plans. An important component of this review process is well-organized documentation of all activities and coordination between two city departments.</p>		
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Add Standard Issues for construction to web-based CRM to accept public input 		Screen shot of CRM module	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Multi-departmental workgroup to establish procedures and define responsibilities of each department Track construction issues submitted by public 		Minutes of meetings CRM summary report	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Develop construction inspection procedures Track construction issues submitted by public 		Adopted procedures CRM summary report	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Implement construction inspection procedures Track construction inspections Track construction issues submitted by public 		List of inspections CRM summary report	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Track the construction inspections Track construction issues submitted by public 		List of inspections CRM summary report	
<p>REFERENCES</p> <p>City of Killeen, 2007. <i>Citizen Relationship Management (CRM)</i>, http://crm.ci.killeen.tx.us/web/</p>				

		CONSTRUCTION GENERAL PERMIT TRAINING		C-4
		<p>DESCRIPTION</p> <p>The City will sponsor training sessions for contractors and developers that will focus on the TPDES CGP, which became effective on March 10, 2003. The goal of these sessions is to increase compliance by informing the attendees of the CGP requirements and reviewing standard practices. The training will include discussion of site development plans, design calculations, proper BMP selection and installation as well as inspection requirements and regulations.</p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works</p>		<p>RATIONALE FOR SELECTION</p> <p>The Storm Water Stakeholder Group recommended that the City sponsor several training sessions for contractors and developers in the Killeen area to increase compliance with the TPDES CGP. Since the CGP became effective in March 2003, the training sessions should be held as soon as possible during the first two years of the permit term.</p>		
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>		<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>		
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Locate and sponsor 1 CGP training class 		Attendance sheet from 1 class	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Sponsor 2 CGP training classes 		Attendance sheets from 2 classes	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Advertise other regional training opportunities 		Copy of promotional material	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Advertise other regional training opportunities 		Copy of promotional material	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Advertise other regional training opportunities 		Copy of promotional material	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>				

		DEVELOPMENT STAKEHOLDER GROUP		C-5
		<p>DESCRIPTION</p> <p>Because the “buy in” of the local developer and builder community will be critical to the success of the City’s program, the City will conduct a series of meetings with a Developer Stakeholder Group to review the various structural and nonstructural BMPs and develop a consensus on the BMPs that are most applicable for Killeen. The City will enlist the aid of the Central Texas Homebuilder’s Association and major developers for this process, and utilize the CGP training and inspection opportunities to advertise the meetings and involve as many homebuilders and developers as possible.</p> 		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works</p>		<p>For construction BMPs, the Development Stakeholder Group will start with an overview of all of the BMPs that are available for temporary storm water management, then narrow the focus down to a smaller set of BMPs through a voting process similar to the Storm Water Stakeholders Group.</p>		
<p>APPLICABILITY</p> <p>X Residents</p> <p>Visitors</p> <p>Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>		<p>RATIONALE FOR SELECTION</p> <p>The Storm Water Stakeholder Committee recommended that the City conduct a Development Stakeholder Group to aid the City in the selection of Construction and Post-Construction BMPs. For construction, this group would focus on development of appropriate construction BMPs for the City of Killeen, based on their experience in complying with the TPDES Construction General Permit.</p>		
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Advertise the upcoming Developer Stakeholder Group to the development community Identify key players and solicit their participation 		Flyers Invitation list	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Hold 2 meetings of the Developers Stakeholder Group 		Minutes of 2 meetings	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Hold 2 meetings of the Developers Stakeholder Group 		Minutes of 2 meetings	
8/13/2010 to 8/12/2011	Fully implemented by the end of permit year		N/A	
8/13/2011 to 8/12/2012	Fully implemented		N/A	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>				


	POST CONSTRUCTION ORDINANCE		PC-1
	<p>DESCRIPTION</p> <p>Killeen will develop an ordinance to address post-construction runoff from new development and redevelopment projects to the extent allowable under State and local law. As the Storm Water Stakeholders Group pointed out, it may be necessary to require different BMPs for different site conditions. A Post Construction BMP Design Manual will accompany the ordinance to provide the design guidance for each required BMP.</p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works City Attorney</p>			
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>	<p>RATIONALE FOR SELECTION</p> <p>The TPDES Small MS4 general permit also requires the development of a regulatory mechanism; therefore, once the BMPs have been identified through the Development Stakeholder Group process, Killeen will develop an ordinance to address post-construction runoff from new development and redevelopment projects to the extent allowable under State and local law.</p>		
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL
8/13/2007 to 8/12/2008	none		N/A
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Collect and catalog example storm water ordinances 		Catalog of ordinances
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Draft post-construction ordinance 		Draft ordinance
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Considering on the BMPs recommended by the Developer's Stakeholder Group, finalize post-construction ordinance 		Adopted ordinance
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Develop a "Post Construction BMP Design Manual" 		Design manual
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>			


		LONG TERM OPERATION AND MAINTENANCE OF BMPs		PC-2
		<p>DESCRIPTION</p> <p>This management practice will involve inspection and maintenance to be conducted by the Drainage Utility, Drainage Maintenance Crew. The inspections are necessary to determine the effectiveness of a BMP, which can significantly be reduced by the lack of maintenance. If a maintenance issue is identified, the Drainage Maintenance Crew will perform maintenance activities on an as-needed basis. Scheduled inspection and maintenance activities for BMPs will be performed as part of the city-wide drainage maintenance program.</p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Drainage Utility</p>				
<p>APPLICABILITY</p> <p>X Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>		<p>RATIONALE FOR SELECTION</p> <p>The TPDES Small MS4 general permit requires the City to provide for the long-term operation and maintenance of the post-construction BMPs that are constructed in new development and redevelopment projects that disturb greater than or equal to one acre. Proper maintenance of the post-construction BMPs requires knowing the location of each BMP to be maintained and a regular inspection process.</p>		
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Develop Drainage Maintenance Plan, including maintenance activities and schedule 		Drainage Maintenance Plan Report	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Identify and catalog the permanent BMPs that have been implemented in Killeen in the past. 		List of BMPs and updated maintenance schedule	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Identify and catalog the permanent BMPs that have been implemented in Killeen in the past year 		List of BMPs and updated maintenance schedule	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Identify and catalog the permanent BMPs that have been implemented in Killeen in the past year 		List of BMPs and updated maintenance schedule	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Identify and catalog the permanent BMPs that have been implemented in Killeen in the past year 		List of BMPs and updated maintenance schedule	
<p>REFERENCES</p> <p>Statewide Storm Water Quality Task Force, 2002. <i>Texas Nonpoint Source Book, Runoff Quality Best Management Practices</i>. http://www.txnpsbook.org/default</p>				


	DEVELOPMENT STAKEHOLDER GROUP	PC-3
	<p>DESCRIPTION</p> <p>Because the “buy in” of the local developer and builder community will be critical to the success of the City’s program, the City will conduct a series of meetings with a Development Stakeholder Group to review the various structural and nonstructural BMPs and develop a consensus on the BMPs that are most applicable for Killeen. The City will enlist the aid of the Central Texas Homebuilder’s Association and major developers for this process, and utilize the CGP training and inspection opportunities to advertise the meetings and involve as many homebuilders and developers as possible.</p>  <p>For Post-Construction BMPs, the Development Stakeholder Group will start with an overview of all of the BMPs that are available for permanent storm water management, then narrow the focus down to a smaller set of BMPs through a voting process similar to the Storm Water Stakeholders Group. To help compare the potential additional costs of a small number of BMPs, a current subdivision may be redesigned using several sets of new criteria to develop direct cost comparisons.</p> <p>RATIONALE FOR SELECTION</p> <p>The Storm Water Stakeholder Committee recommended that the City conduct a Development Stakeholder Group to aid the City in the selection of Construction and Post-Construction BMPs. For Post-Construction, this group will review the various structural and non-structural BMPs, lending the development of appropriate post-construction BMPs for the City of Killeen. The committee will likely develop the construction and post construction BMPs in conjunction with each other.</p>	
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works</p>		
<p>APPLICABILITY</p> <p>X Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>		



YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Advertise the upcoming Development Stakeholder Group to the development community. Identify key players and solicit their participation 	Flyers Invitation list
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Hold 2 meetings of the Development Stakeholder Group. 	Minutes of 2 meetings
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Hold 2 meetings of the Development Stakeholder Group. 	Minutes of 2 meetings
8/13/2010 to 8/12/2011	Fully implemented by end of permit year	N/A
8/13/2011 to 8/12/2012	Fully implemented	N/A

<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>

		LIST OF WATER QUALITY CIP PROJECTS		PC-4
		<p>DESCRIPTION</p> <p>The City currently maintains a list of drainage capital improvement projects that is primarily focused on storm water quantity. This management practice will consist of a review of the list of planned quantity CIP projects to identify potential water quality improvement components of these projects. By identifying these components, the City will be able to implement water quality improvements and pursue grant funding opportunities from the EPA and others.</p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works</p>		<p>RATIONALE FOR SELECTION</p> <p>In addition to the TPDES Small MS4 general permit for post-construction BMPs in new development and redevelopment projects that disturb greater than or equal to one acre, the City of Killeen will also be constructing drainage improvement projects that have the potential to include water quality components.</p>		
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>Public Service Employees</p> <p>X Businesses</p> <p>X Commercial/Industrial</p> <p>X Construction</p>				
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Prepare Drainage Master Plan to identify major drainage capital improvement projects 		Major Drainage CIP list	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Review the list of planned storm water quantity CIP projects Based on the description of each CIP project, identify potential water quality components 		List of water quality CIP components	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Document water quality components constructed as part of the drainage CIP projects Update Drainage Maintenance Plan to include required maintenance for water quality components 		GIS coverage of water quality CIP components Updated Maintenance Plan	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Document water quality components constructed as part of the drainage CIP projects Update Drainage Maintenance Plan to include required maintenance for water quality components 		GIS coverage of water quality CIP components Updated Maintenance Plan	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Document water quality components constructed as part of the drainage CIP projects Update Drainage Maintenance Plan to include required maintenance for water quality components 		GIS coverage of water quality CIP components Updated Maintenance Plan	
<p>REFERENCES</p> <p>City of Killeen, 2007. <i>City of Killeen Drainage Master Plan</i>.</p>				


		STORM WATER POLLUTION PREVENTION TRAINING		GH-1
		<p>DESCRIPTION</p> <p>In addition to the specific BMPs for Good Housekeeping and Pollution Prevention, the City of Killeen will also prepare and implement general training for City employees on storm water pollution prevention techniques. This will consist of the development of a BMP / Standard Operations (BMP/SO) manual for use by City staff charged with City facility and maintenance operations (both fixed facility staff and field operations), along with an accompanying annual training curriculum. The course will be structured for a 20-minute introduction to be given during new employee orientation held monthly and followed by a more detailed training session held annually at the department level.</p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works</p>		<p>The municipal operations that have a primary role in the implementation of this SWMP will attend the annual training including the following departments: Public Works, Streets, Water & Sewer Utilities, Drainage Utility, Code Enforcement, Permits and Inspections, Fleet Services, Solid Waste, and Killeen Recycling Center. The BMP/SO manual will be reviewed and updated annually prior to training sessions for new employees. Curriculum will be updated to reflect the revised manual.</p>		
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>		<p>RATIONALE FOR SELECTION</p> <p>Since the City occasionally hires new employees, a regularly scheduled training effort will train new employees on storm water pollution prevention techniques within their first 12 months at the City, and will also provide a refresher course for existing employees to remind them of their role in storm water pollution prevention. Additionally, the Storm Water Pollution Prevention Plans (SWPPPs) for several of the City facilities have storm water training requirements, which can be met with this training.</p>		
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Develop a BMP/SO manual Conduct training for City facility and maintenance staff 		BMP/SO manual 1 training session	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Review and update BMP/SO manual as needed Update curriculum to reflect updated manual Conduct annual training for City facility and maintenance staff 		Updated manual pages 1 training session	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Review and update BMP/SO manual as needed Update curriculum to reflect updated manual Conduct annual training for City facility and maintenance staff 		Updated manual pages 1 training session	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Review and update BMP/SO manual as needed Update curriculum to reflect updated manual Conduct annual training for City facility and maintenance staff 		Updated manual pages 1 training session	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Review and update BMP/SO manual as needed Update curriculum to reflect updated manual Conduct annual training for City facility and maintenance staff 		Updated manual pages 1 training session	
<p>REFERENCES</p> <p>Statewide Storm Water Quality Task Force, 2002. <i>Texas Nonpoint Source Book, Runoff Quality Best Management Practices.</i> http://www.txnpsbook.org/default.htm</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices.</i> http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>				


		MUNICIPAL LITTER CONTROL		GH-2
		<p>DESCRIPTION</p> <p>Municipal litter control is a management practice that involves educating and training municipal employees on the proper storage and disposal of all materials found at a municipal facility. The goal of a municipal litter control program is to prevent the discharge of trash, debris and other pollutants from municipal facilities into local waterways and maintain safe and healthy work places.</p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works All Departments</p>		<p>RATIONALE FOR SELECTION</p> <p>The City of Killeen currently performs municipal litter control in many City operated and maintained locations as part of general good housekeeping practices. Municipal Litter Control is especially important in areas such as the Killeen Recycling Center and Waste Transfer Station, where large volumes of materials are brought to the locations daily. These facilities currently perform litter control well; however, continued employee training and documentation of the routine litter abatement in all City locations will ensure that this program is successful.</p>		
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>				
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Develop and implement guidelines for City-wide routine litter abatement 		Litter abatement guidelines	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Perform routine litter abatement 		List of dates litter abatement performed	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Perform routine litter abatement 		List of dates litter abatement performed	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Perform routine litter abatement 		List of dates litter abatement performed	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Perform routine litter abatement 		List of dates litter abatement performed	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>				

		VEHICLE MAINTENANCE	GH-3
		<p>DESCRIPTION</p> <p>The City of Killeen will continue to perform vehicle maintenance utilizing current procedures and techniques. Vehicle maintenance is performed on all City owned and operated vehicles and includes such preventative maintenance services as automotive fluid changes and tire and battery replacement. Some minor mechanical repairs are also performed, however, bodywork and painting is not conducted at the City service facilities.</p> 	
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Fleet Services</p>		<p>As part of this BMP, the City will implement enhanced leak prevention measures in vehicle impoundment areas and document the leak prevention measures and the disposal of spent automotive fluids.</p>	
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>		<p>RATIONALE FOR SELECTION</p> <p>Vehicle maintenance is currently being performed for all City vehicles at the Fleet Service Center/Little Nolan Road Complex. Many vehicle fluids such as hydraulic fluid and anti-freeze are already collected for recycling and refurbishing. Water-based parts cleaners that filter and reuse the cleaning solution are also used by the City, which helps eliminate waste solvent generation.</p>	
YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Implement enhanced leak prevention measures in vehicle impoundment area Continue collection, recycling and proper disposal of automotive fluids from maintenance activities 	Document leak prevention Document fluids disposal	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Maintain leak prevention measures in vehicle impoundment area Continue collection, recycling and proper disposal of automotive fluids from maintenance activities 	Document leak prevention Document fluids disposal	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Maintain leak prevention measures in vehicle impoundment area Continue collection, recycling and proper disposal of automotive fluids from maintenance activities 	Document leak prevention Document fluids disposal	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Maintain leak prevention measures in vehicle impoundment area Continue collection, recycling and proper disposal of automotive fluids from maintenance activities 	Document leak prevention Document fluids disposal	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Maintain leak prevention measures in vehicle impoundment area Continue collection, recycling and proper disposal of automotive fluids from maintenance activities 	Document leak prevention Document fluids disposal	
<p>REFERENCES</p> <p>Center for Watershed Protection, 2002 <i>Stormwater Manager's Resource Center</i> http://www.stormwatercenter.net Carter & Burgess, 2002. City of Killeen BMP Manual</p>			


		VEHICLE WASHING		GH-4
		<p>DESCRIPTION</p> <p>Vehicle washing will continue to be performed at the Fleet Service Center/Little Nolan Road Complex for all City owned and operated vehicles. The oil/water separator for the two wash racks will be maintained and cleaned at a minimum of three times annually.</p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Fleet Services</p>		<p>RATIONALE FOR SELECTION</p> <p>Vehicle washing is currently being performed for all City vehicles at the Fleet Service Center/Little Nolan Road Complex in the designated washing bay. Most City vehicles are washed approximately twice a week. An oil/water separator is utilized to filter all wash water from the car wash bay, and needs to be maintained on a regular and frequent schedule.</p>		
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>				
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Maintain oil/water separator 		Maintenance log	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Maintain oil/water separator 		Maintenance log	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Maintain oil/water separator 		Maintenance log	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Maintain oil/water separator 		Maintenance log	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Maintain oil/water separator 		Maintenance log	
<p>REFERENCES</p> <p>Center for Watershed Protection, 2002 <i>Stormwater Manager's Resource Center</i>, http://www.stormwatercenter.net</p> <p>Carter & Burgess, 2002. City of Killeen BMP Manual</p>				

		VEHICLE FUELING	GH-5
		<p>DESCRIPTION</p> <p>Vehicle fueling will continue to be performed at the Fleet Service Center. The system will remain in compliance with current TCEQ regulations. The BMP will include the implementation of a Spill Prevention, Control and Countermeasure (SPCC) plan. The SPCC plan will be updated, as necessary to be fully compliant with TCEQ regulations. The City will continue to maintain leak detection systems for the underground fuel storage tanks (UST) and document testing and registration.</p> 	
<p>RESPONSIBLE AUTHORITY</p> <p>Fleet Service Division</p>		<p>RATIONALE FOR SELECTION</p> <p>Vehicle fueling is performed for City vehicles at the Fleet Service Center at the Little Nolan Road Complex. The fueling area consists of two islands that are used to dispense unleaded fuel from a 20,000-gallon capacity underground storage tank and diesel fuel from a 10,000-gallon capacity underground storage tank. Both tanks are equipped with leak detection systems. The vehicle fueling area is partially covered with concrete paving.</p>	
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>			
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Maintain UST leak detection system Verification of containment Implement SPCC plan 		Maintain all UST testing and registration records Signed certification for SPCC plan
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Maintain UST leak detection system Verification of containment 		Maintain all UST testing and registration records
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Maintain UST leak detection system Verification of containment 		Maintain all UST testing and registration records
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Maintain UST leak detection system Verification of containment 		Maintain all UST testing and registration records
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Maintain UST leak detection system Verification of containment 		Maintain all UST testing and registration records
<p>REFERENCES</p> <p>Carter & Burgess, 2002. City of Killeen BMP Manual</p>			

		ROADWAY CLEANING	GH-6
		<p>DESCRIPTION</p> <p>The City of Killeen will continue to perform street sweeping and cleaning at the current frequency. The City uses two Tymco 600 street sweepers. The City will also sweep designated sections of the parking lot of the Fleet Service Center/Little Nolan Road Complex on a bi-weekly basis. The City has an electronic reporting system for tracking the number of lane miles swept for reporting performance measures. In Year 2, the City will purchase a new street sweeper that will be dedicated to Drainage Maintenance activities such as collecting grass clipping during mowing of Right-of-Ways.</p>	
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Street Department</p>		<p>RATIONALE FOR SELECTION</p> <p>The Street Department of the City of Killeen currently performs street cleaning utilizing street sweepers. Several other City programs and procedures also help reduce the volume of debris or trash on the City streets and in waterways. The Stakeholder Group voted this BMP as the highest priority Good Housekeeping BMP.</p>	
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>			
YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Continue existing regenerative street sweeping Track number of lane miles swept 	50,000 lane miles swept	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Procurement of dedicated street sweeper for drainage maintenance activities Continue existing regenerative street sweeping Track the number of lane miles swept 	Purchase order/invoice 50,000 lane miles swept	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Continue existing regenerative street sweeping Track the number of lane miles swept 	50,000 lane miles swept	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Continue existing regenerative street sweeping Track the number of lane miles swept 	50,000 lane miles swept	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Continue existing regenerative street sweeping Track the number of lane miles swept 	50,000 lane miles swept	
<p>REFERENCES</p> <p>Statewide Storm Water Quality Task Force, 2002. <i>Texas Nonpoint Source Book, Runoff Quality Best Management Practices.</i> http://www.txnpsbook.org/default.htm</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices.</i> http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p>			

		STRUCTURAL BMP & STORM DRAIN SYSTEM MAINTENANCE		GH-7
		<p>DESCRIPTION</p> <p>The City of Killeen will continue to perform storm drain system cleaning as part of its overall drainage maintenance program. The purpose of this practice is to reduce the amount of debris, trash and other pollutants in the storm drain system. The City will develop a GIS coverage of the storm drain system needing maintenance and develop a maintenance plan detailing the activities, schedules, and long-term inspection procedures. The plan will include formalized procedures for the disposal of waste from the MS4 and will specifically address disposal procedures for dredge spoil, accumulated sediments and floatables.</p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Drainage Utility</p>		<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>		
		<p>RATIONALE FOR SELECTION</p> <p>The Drainage Utility Drainage Maintenance crew currently performs storm drain system cleaning on a complaint basis but the City plans to implement a routine maintenance program. The Stakeholder Group voted this BMP as the third highest priority BMP.</p>		
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Formalize disposal procedures for waste removed from MS4 Continue cleaning of inlets on a complaint basis 		Disposal procedures Inspection & maintenance reports	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Develop a GIS coverage of storm drain system to be cleaned as part of the City's drainage maintenance program Develop drainage maintenance plan/schedule Implement scheduled maintenance 		GIS coverage Drainage maintenance plan Inspection & maintenance reports	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Update GIS coverage of storm drain system to be cleaned Update drainage maintenance schedule to added system Conduct scheduled maintenance 		Updated GIS coverage Updated schedule Inspection & maintenance reports	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Update GIS coverage of storm drain system to be cleaned Update drainage maintenance schedule to added system Conduct scheduled maintenance 		Updated GIS coverage Updated schedule Inspection & maintenance reports	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Update GIS coverage of storm drain system to be cleaned Update drainage maintenance schedule to added system Conduct scheduled maintenance 		Updated GIS coverage Updated schedule Inspection & maintenance reports	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p> <p>City of Killeen, 2007. <i>City of Killeen Drainage Master Plan</i></p>				

	LANDSCAPE AND LAWN CARE		GH-8																		
	<p>DESCRIPTION</p> <p>The City of Killeen maintains several landscaped facilities including Stonetree public golf course. Pesticides and fertilizers are used on an "as needed" basis in high use areas. This program focuses on education and certification of municipal employees to reduce water quality impacts from fertilizers and pesticides. The City has licensed applicators who are certified through the Texas Department of Agriculture (TDA). The TDA certification program provides education on proper storage and application techniques and information on alternative pest control techniques and dosage calculations. The certification program requires an annual exam and continuing education credits for recertification. Stonetree Golf Course participates in TDA audits of its herbicide applications and keeps written records of the areas of the course where chemicals are applied and the amounts that are used. Fertilizer applications are recorded electronically in Microsoft calendar.</p>																				
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Stonetree Golf Course</p>	<p>RATIONALE FOR SELECTION</p> <p>The City of Killeen currently performs landscape and lawn care service in a number of areas throughout Killeen including the public golf course. The City utilizes TDA licensed applicators for pesticide and fertilizer applications. Chemical applications are currently documented through hard copies and electronic files. The City is also developing a BMP/SOP Manual that may be used in the landscaped facilities to ensure that appropriate BMPs are being performed.</p>																				
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>	<table border="1"> <thead> <tr> <th data-bbox="164 1192 329 1255">YEAR</th> <th data-bbox="329 1192 1146 1255">IMPLEMENTATION ACTIVITY</th> <th data-bbox="1146 1192 1498 1255">MEASURABLE GOAL</th> </tr> </thead> <tbody> <tr> <td data-bbox="164 1255 329 1356">8/13/2007 to 8/12/2008</td> <td data-bbox="329 1255 1146 1356"> <ul style="list-style-type: none"> Annual training for applicators Document training and copies of licenses </td> <td data-bbox="1146 1255 1498 1356"> List of training dates Copy of licenses </td> </tr> <tr> <td data-bbox="164 1356 329 1457">8/13/2008 to 8/12/2009</td> <td data-bbox="329 1356 1146 1457"> <ul style="list-style-type: none"> Annual training for applicators Document training and copies of licenses </td> <td data-bbox="1146 1356 1498 1457"> List of training dates Copy of licenses </td> </tr> <tr> <td data-bbox="164 1457 329 1558">8/13/2009 to 8/12/2010</td> <td data-bbox="329 1457 1146 1558"> <ul style="list-style-type: none"> Annual training for applicators Document training and copies of licenses </td> <td data-bbox="1146 1457 1498 1558"> List of training dates Copy of licenses </td> </tr> <tr> <td data-bbox="164 1558 329 1659">8/13/2010 to 8/12/2011</td> <td data-bbox="329 1558 1146 1659"> <ul style="list-style-type: none"> Annual training for applicators Document training and copies of licenses </td> <td data-bbox="1146 1558 1498 1659"> List of training dates Copy of licenses </td> </tr> <tr> <td data-bbox="164 1659 329 1745">8/13/2011 to 8/12/2012</td> <td data-bbox="329 1659 1146 1745"> <ul style="list-style-type: none"> Annual training for applicators Document training and copies of licenses </td> <td data-bbox="1146 1659 1498 1745"> List of training dates Copy of licenses </td> </tr> </tbody> </table>			YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Annual training for applicators Document training and copies of licenses 	List of training dates Copy of licenses	8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Annual training for applicators Document training and copies of licenses 	List of training dates Copy of licenses	8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Annual training for applicators Document training and copies of licenses 	List of training dates Copy of licenses	8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Annual training for applicators Document training and copies of licenses 	List of training dates Copy of licenses	8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Annual training for applicators Document training and copies of licenses 	List of training dates Copy of licenses
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		HAZARDOUS MATERIALS STORAGE & DISPOSAL		GH-9
		DESCRIPTION Hazardous materials including fuels, oils, paints and pesticides are stored in appropriate containers and cabinets at the City of Killeen facilities. Disposal procedures will continue as currently implemented, which includes a recycling program for automotive fluids. This program will have a strong educational component for both City employees and citizens utilizing several of the previously mentioned public education BMPs. The City will educate employees on proper handling, storage and disposal during new employee orientation and during annual storm water pollution prevention training (GH-1).		
RESPONSIBLE AUTHORITY Public Works		RATIONALE FOR SELECTION Hazardous materials are stored at the Fleet Service Center/Nolan Road Complex. Current procedures for dealing with hazardous materials vary from department to department. Development of city-wide operating procedures would standardize storage and disposal procedures. Training on these procedures could be incorporated with the Storm Water Pollution Prevention Training program (GH-1).		
APPLICABILITY Residents Visitors X Public Service Employees Businesses Commercial/Industrial Construction				
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Develop City-wide standard operating procedures & training program 		Written procedures	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Conduct annual training 		1 training session List of attendees	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Conduct annual training 		1 training session List of attendees	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Conduct annual training 		1 training session List of attendees	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Conduct annual training 		1 training session List of attendees	
REFERENCES USEPA, 2002. <i>National Menu of Best Management Practices</i> . http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm				

	<h2>USED OIL COLLECTION & RECYCLING</h2>	<h2>GH-10</h2>																		
	<p>DESCRIPTION</p> <p>The City of Killeen currently collects and recycles used oil from vehicle maintenance at the Fleet Service Center/Little Nolan Road. This greatly reduces the City's disposal costs while also ensuring that the waste oils are not discharged into the local sewer system or creeks and waterways.</p> <p>This program consists of an educational component for the City employees and utilizes several of the previously mentioned public education BMPs to inform public employees of the environmental concerns of improper disposal of waste oils and disposal alternatives that are available.</p> 																			
<p>RESPONSIBLE AUTHORITY</p> <p>Fleet Services</p>	<p>RATIONALE FOR SELECTION</p> <p>The City of Killeen's Fleet Service Center/Little Nolan Road Complex utilizes tanks to store used oil from the City vehicles, which are recycled by a commercial contractor.</p>																			
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>	<table border="1"> <thead> <tr> <th data-bbox="168 1184 358 1247">YEAR</th> <th data-bbox="358 1184 1127 1247">IMPLEMENTATION ACTIVITY</th> <th data-bbox="1127 1184 1505 1247">MEASURABLE GOAL</th> </tr> </thead> <tbody> <tr> <td data-bbox="168 1247 358 1339">8/13/2007 to 8/12/2008</td> <td data-bbox="358 1247 1127 1339"> <ul style="list-style-type: none"> Inspection and maintenance of facility </td> <td data-bbox="1127 1247 1505 1339">Inspection log and quantity recycled</td> </tr> <tr> <td data-bbox="168 1339 358 1432">8/13/2008 to 8/12/2009</td> <td data-bbox="358 1339 1127 1432"> <ul style="list-style-type: none"> Inspection and maintenance of facility </td> <td data-bbox="1127 1339 1505 1432">Inspection log and quantity recycled</td> </tr> <tr> <td data-bbox="168 1432 358 1524">8/13/2009 to 8/12/2010</td> <td data-bbox="358 1432 1127 1524"> <ul style="list-style-type: none"> Inspection and maintenance of facility </td> <td data-bbox="1127 1432 1505 1524">Inspection log and quantity recycled</td> </tr> <tr> <td data-bbox="168 1524 358 1617">8/13/2010 to 8/12/2011</td> <td data-bbox="358 1524 1127 1617"> <ul style="list-style-type: none"> Inspection and maintenance of facility </td> <td data-bbox="1127 1524 1505 1617">Inspection log and quantity recycled</td> </tr> <tr> <td data-bbox="168 1617 358 1703">8/13/2011 to 8/12/2012</td> <td data-bbox="358 1617 1127 1703"> <ul style="list-style-type: none"> Inspection and maintenance of facility </td> <td data-bbox="1127 1617 1505 1703">Inspection log and quantity recycled</td> </tr> </tbody> </table>		YEAR	IMPLEMENTATION ACTIVITY	MEASURABLE GOAL	8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> Inspection and maintenance of facility 	Inspection log and quantity recycled	8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Inspection and maintenance of facility 	Inspection log and quantity recycled	8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Inspection and maintenance of facility 	Inspection log and quantity recycled	8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Inspection and maintenance of facility 	Inspection log and quantity recycled	8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Inspection and maintenance of facility 	Inspection log and quantity recycled
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		NON-STORM WATER DISCHARGES - DECHLORINATION EQUIPMENT		GH-11
		<p>DESCRIPTION</p> <p>The purchase of dechlorination equipment will be required to remove excess chlorine from wash water that is used to treat new water lines. The Water and Sewer Utilities Department performs super chlorination of new water lines and will use the dechlorination equipment to remove residual chlorine prior to discharge of water into the MS4.</p> <p style="text-align: right;">  </p>		
<p>RESPONSIBLE AUTHORITY</p> <p>Public Works Water and Sewer Utilities</p>		<p>Dechlorination equipment will be made available to other departments for use during pool maintenance and to treat backwash water from pool filtering equipment.</p>		
<p>APPLICABILITY</p> <p>Residents</p> <p>Visitors</p> <p>X Public Service Employees</p> <p>Businesses</p> <p>Commercial/Industrial</p> <p>Construction</p>		<p>RATIONALE FOR SELECTION</p> <p>Dechlorination equipment is required to prevent the illicit discharge of super-chlorinated water to the MS4. The equipment will also be made available to the Parks and Recreation Department for use during swimming pool maintenance.</p>		
YEAR	IMPLEMENTATION ACTIVITY		MEASURABLE GOAL	
8/13/2007 to 8/12/2008	<ul style="list-style-type: none"> None 		None	
8/13/2008 to 8/12/2009	<ul style="list-style-type: none"> Purchase dechlorination equipment 		Purchase order for dechlorination equipment	
8/13/2009 to 8/12/2010	<ul style="list-style-type: none"> Use dechlorination equipment for water line flushing 		Document use through departmental check out and supply purchases	
8/13/2010 to 8/12/2011	<ul style="list-style-type: none"> Use dechlorination equipment for water line flushing 		Document use through departmental check out and supply purchases	
8/13/2011 to 8/12/2012	<ul style="list-style-type: none"> Use dechlorination equipment for water line flushing 		Document use through departmental check out and supply purchases	
<p>REFERENCES</p> <p>USEPA, 2002. <i>National Menu of Best Management Practices</i>. http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm</p> <p>Hose Monster Dechlorination Equipment, 2007. http://www.hosemonster.com/dechlor.html</p>				

Appendix 1

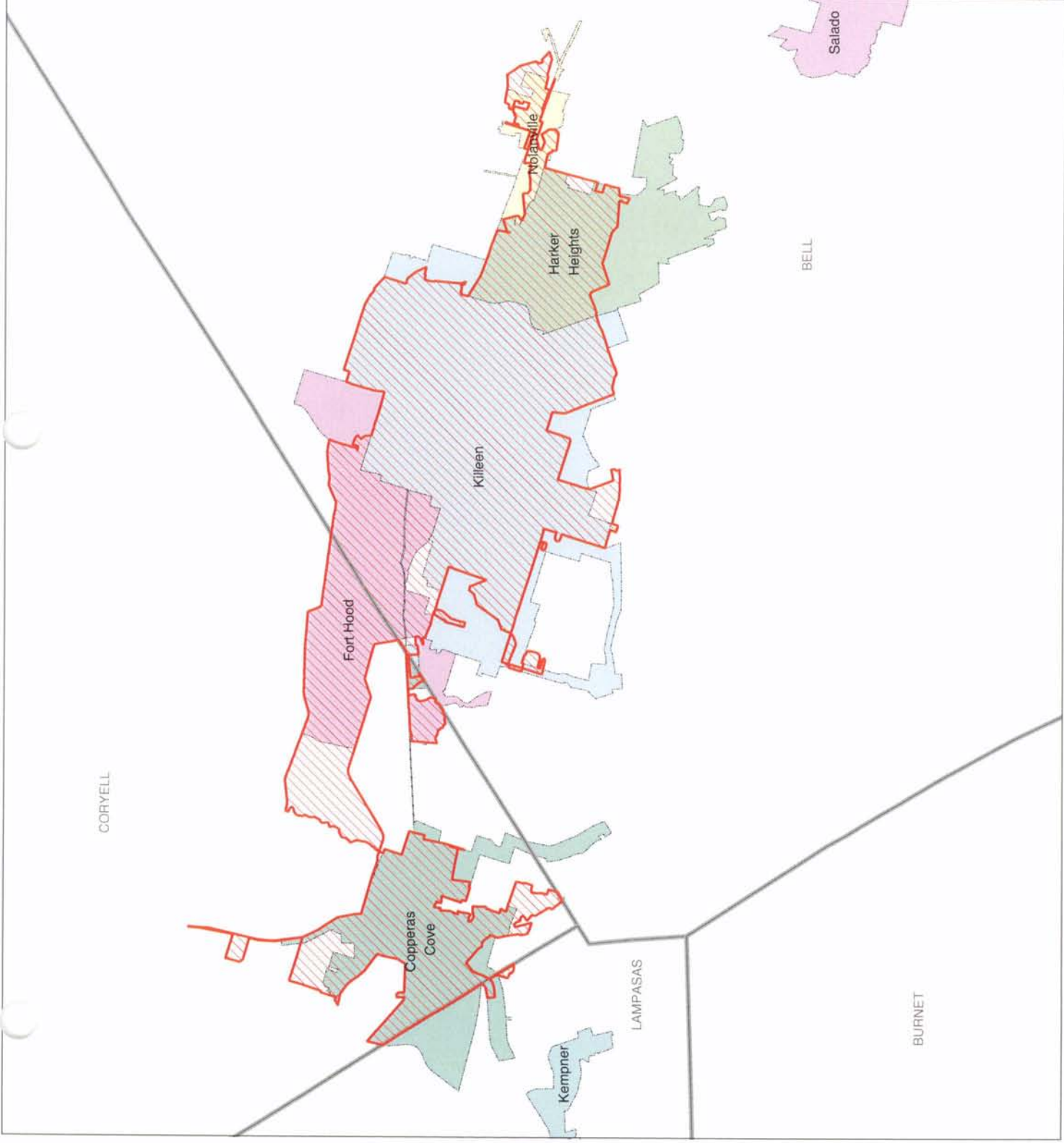
Killeen, Texas Urbanized Area

Killeen, Urbanized Area Storm Water Entities as Defined by the 2000 Census

2000 Census Urbanized Areas

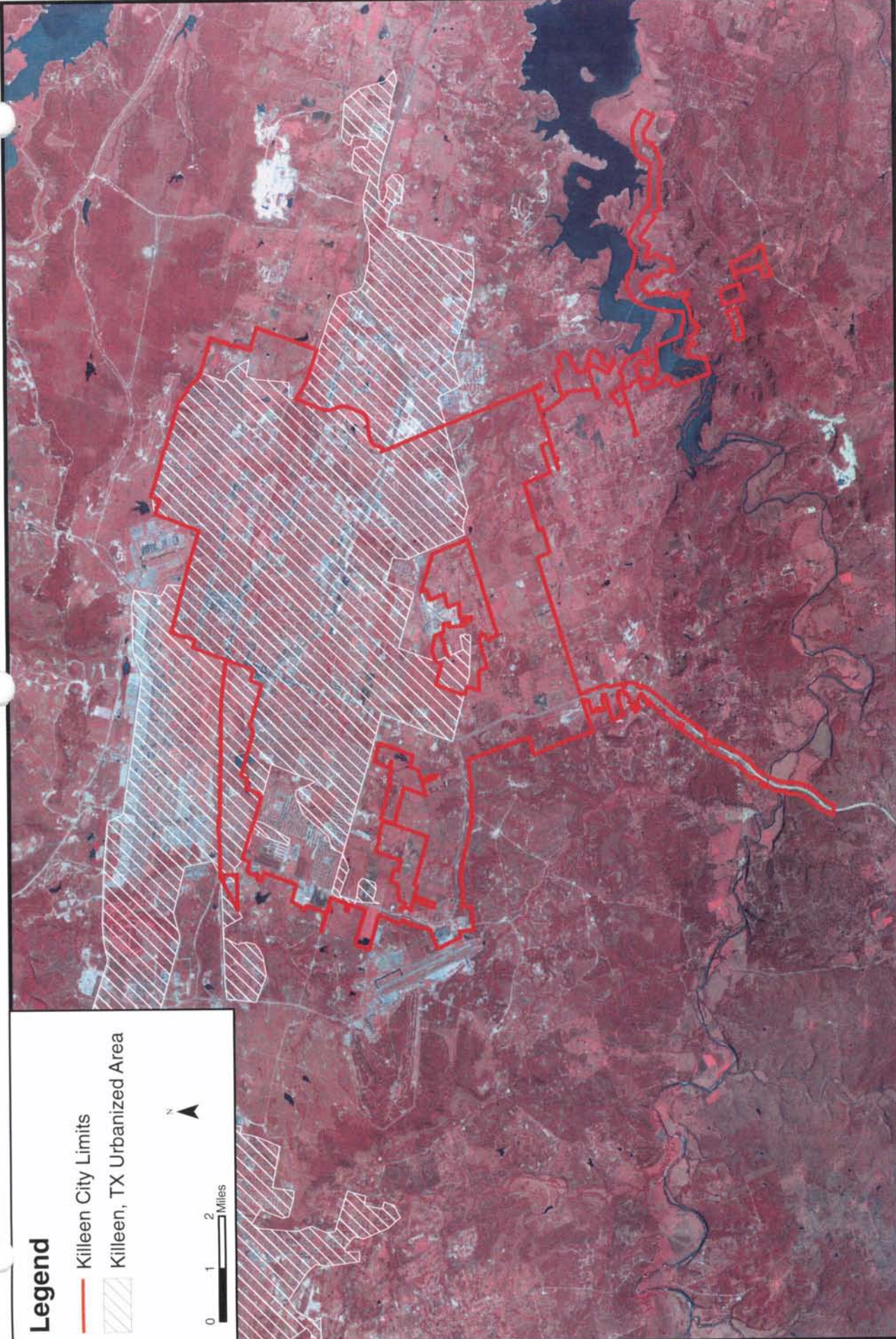
-  Killeen, TX
-  Municipal Boundaries
-  County Boundaries
-  Major Waterbodies

SOURCE: US Census Bureau TIGER data, 2000 Census
 PROJECTION: State Plane Coordinate System - Texas Central, Horizontal datum - NAD83
 MAP DESIGN: August 23, 2002



Appendix 2

City of Killeen City Limits Map



Legend

-  Killeen City Limits
-  Killeen, TX Urbanized Area



**City of Killeen
City Limits on January 28, 2008**

**City of Killeen
Storm Water Management Program**

Sources: TNRIS, TCEQ, U.S. Census Bureau and
City of Killeen



Carter & Burgess

Appendix 3

**TPDES General Permit for Storm Water
Discharges from Small MS4s (TXR040000)**

TCEQ Docket No. 2006-0428-WQ
TPDES GENERAL PERMIT
No. TXR040000



This is a new general permit issued pursuant to Section 26.040 of the Texas Water Code and Section 402 of the Clean Water Act.

Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

GENERAL PERMIT TO DISCHARGE UNDER THE
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

Small Municipal Separate Storm Sewer Systems

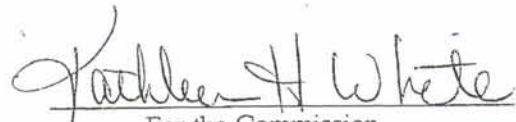
located in the state of Texas

may discharge directly to surface water in the state

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

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

ISSUED AND EFFECTIVE DATE: **AUG 13 2007**


For the Commission

**TCEQ GENERAL PERMIT NUMBER TXR040000
RELATING TO STORM WATER DISCHARGES ASSOCIATED WITH
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS**

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Part I. Definitions and Terminology

A. Definitions

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

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

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

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

Construction Site Operator - The person or persons associated with a small or large construction project that meets either of the following two criteria:

- (a) the person or persons that have operational control over construction plans and specifications (including approval of revisions) to the extent necessary to meet the requirements and conditions of this general permit; or
- (b) the person or persons that have day-to-day operational control of those activities at a construction site that are necessary to ensure compliance with a storm water pollution prevention plan for the site or other permit conditions (e.g. they are authorized to direct workers at a site to carry out activities required by the Storm Water Pollution Prevention Plan or comply with other permit conditions).

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

Daily Maximum - For the purposes of compliance with the numeric effluent limitations contained in this permit, this is the maximum concentration measured on a single day, by grab sample, within a period of one calendar year.

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

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

- (a) All soil disturbing activities at the site have been completed and a uniform (e.g, evenly distributed, without large bare areas) perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.
- (b) For individual lots in a residential construction site by either:
 - (1) the homebuilder completing final stabilization as specified in condition (a) above;
or
 - (2) the homebuilder establishing temporary stabilization for an individual lot prior to the time of transfer of the ownership of the home to the buyer and after informing the homeowner of the need for, and benefits of, final stabilization.
- (c) For construction activities on land used for agricultural purposes (e.g. pipelines across crop or range land), final stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural use. Areas disturbed that were not previously used for agricultural activities, such as buffer strips immediately adjacent to a surface water and areas which are not being returned to their preconstruction agricultural use must meet the final stabilization conditions of condition (a) above.

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

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

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

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

Industrial Activities - manufacturing, processing, material storage, and waste material disposal areas (and similar areas where storm water can contact industrial pollutants related to the industrial activity) at an industrial facility described by the TPDES Multi Sector General Permit, TXR050000, or by another TCEQ or TPDES permit.

Large Construction Activity - Construction activities including clearing, grading, and excavating that result in land disturbance of equal to or greater than five (5) acres of land. Large construction activity also includes the disturbance of less than five (5) acres of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than five (5) acres of land. Large construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, and original purpose of a ditch, channel, or other similar storm water conveyance. Large construction activity does not include the routine grading of existing dirt roads, asphalt overlays of existing roads, the routine clearing of existing right-of-ways, and similar maintenance activities.

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

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

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

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

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

Outfall - For the purpose of this permit, a point source at the point where a municipal separate storm sewer discharges to waters of the United States (U.S.) and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels, or other conveyances that connect segments of the same stream or other waters of the U.S. and are used to convey waters of the U.S.

Permittee - The MS4 operator authorized under this general permit.

Permitting Authority - For the purposes of this general permit, the TCEQ.

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

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

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

Small Construction Activity - Construction activities including clearing, grading, and excavating that result in land disturbance of equal to or greater than one (1) acre and less than five (5) acres of land. Small construction activity also includes the disturbance of less than one (1) acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one (1) and less than five (5) acres of land. Small construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, and original purpose of a ditch, channel, or other similar storm water conveyance. Small construction activity does not include the routine grading of existing dirt roads, asphalt overlays of existing roads, the routine clearing of existing right-of-ways, and similar maintenance activities.

Small Municipal Separate Storm Sewer System (MS4) – refers to a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): (i) Owned or operated by the United States, a state, city, town, borough, county, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under § 208 of the CWA; (ii) Designed or used for collecting or conveying storm water; (iii) Which is not a combined sewer; (iv) Which is not part of a publicly owned treatment works (POTW) as defined at 40 CFR § 122.2; and (v) Which was not previously authorized under a NPDES or TPDES individual permit as a medium or large municipal separate storm sewer system, as defined at 40 CFR §§122.26(b)(4) and (b)(7). This term includes systems similar to separate storm sewer systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. This term does not include separate storm sewers in very discrete areas, such as individual buildings. For the purpose of this permit, a very discrete system also includes storm drains associated with certain municipal offices and education facilities serving a nonresidential population, where those storm drains do not function as a system, and where the buildings are not physically interconnected to an MS4 that is also operated by that public entity.

Storm Water and Storm Water Runoff - Rainfall runoff, snow melt runoff, and surface runoff and drainage.

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

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

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

gabions, and temporary or permanent sediment basins.

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

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

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

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

- (a) all waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- (b) all interstate waters, including interstate wetlands;
- (c) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds that the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:
 - (1) which are or could be used by interstate or foreign travelers for recreational or other purposes;
 - (2) from which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - (3) which are used or could be used for industrial purposes by industries in interstate commerce;
- (d) all impoundments of waters otherwise defined as waters of the United States under this definition;
- (e) tributaries of waters identified in paragraphs (a) through (d) of this definition;
- (f) the territorial sea; and

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

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

B. Commonly Used Acronyms

BMP	Best Management Practice
CFR	Code of Federal Regulations
CGP	Construction General Permit, TXR150000
CWA	Clean Water Act
DMR	Discharge Monitoring Report
EPA	Environmental Protection Agency
FR	Federal Register
IP	Implementation Procedures
MCM	Minimum Control Measure
MSGP	Multi-Sector General Permit, TXR050000
MS4	Municipal Separate Storm Sewer System
NOC	Notice of Change
NOD	Notice of Deficiency
NOI	Notice of Intent
NOT	Notice of Termination (to terminate coverage under a general permit)
NPDES	National Pollutant Discharge Elimination System
SWMP	Storm Water Management Program

SWP3, SWPPP	Storm Water Pollution Prevention Plan
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TPDES	Texas Pollutant Discharge Elimination System
TWC	Texas Water Code

Part II. Permit Applicability and Coverage

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

A. Small MS4s Eligible for Authorization by General Permit

1. Small MS4s Located in an Urbanized Area

A small MS4 that is fully or partially located within an urbanized area, as determined by the 2000 Decennial Census by the U.S. Bureau of Census, must obtain authorization for the discharge of storm water runoff and is eligible for coverage under this general permit.

2. Designated Small MS4s

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

The portion of the small MS4 that is required to meet the conditions of this general permit are those portions that are located within the urbanized area, as well as any portion of the small MS4 that is designated.

B. Allowable Non-Storm Water Discharges

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

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;
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;
14. street wash water;
15. discharges or flows from 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-storm water discharges listed in 40 CFR § 122.26(d)(2)(iv)(B)(1);
17. non-storm water discharges that are specifically listed in the TPDES Multi Sector General Permit (MSGP) or the TPDES Construction General permit (CGP); and
18. other similar occasional incidental non-storm water discharges, unless the TCEQ develops permits or regulations addressing these discharges.

C. Limitations on Permit Coverage

1. Discharges Authorized by Another TPDES Permit

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

- (a) the discharges meet the applicability and eligibility requirements for coverage under this general permit;
- (b) a previous application or permit for the discharges has not been denied, terminated, or revoked by the executive director as a result of enforcement or water quality related concerns. The executive director may provide a waiver to this provision based on new circumstances at the regulated small MS4; and
- (c) the executive director has not determined that continued coverage under an individual permit is required based on consideration of an approved total maximum daily loading (TMDL) model and implementation plan, anti-backsliding policy, history of substantive non-compliance or other 30 TAC Chapter 205 considerations and requirements, or other site-specific considerations.

2. Discharges of Storm Water Mixed with Non-Storm Water

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

3. Compliance with Water Quality Standards

Discharges to surface water in the state that would cause or contribute to a violation of water quality standards or that would fail to protect and maintain existing designated uses are not eligible for coverage under this general permit. The executive director may require an application for an individual permit or alternative general permit to authorize discharges to surface water in the state if the executive director determines that an activity will cause a violation of water quality standards or is found to cause or contribute to the impairment of a designated use of surface water in the state. The executive director may also require an application for an individual permit considering factors described in Part II.E.2.

4. Discharges to Water Quality-Impaired Receiving Waters

New sources or new discharges of the constituent(s) of concern to impaired waters are not authorized by this permit unless otherwise allowable under 30 TAC Chapter 305 and applicable state law. Impaired waters are those that do not meet applicable water quality standard(s) and are listed on the Clean Water Act § 303(d) list. Constituents of concern are those for which the water body is listed as impaired.

Discharges of the constituent(s) of concern to impaired water bodies for which there is a TMDL implementation plan are not eligible for this general permit unless they are consistent with the approved TMDL and the implementation plan. Permitted MS4 operators must incorporate the limitations, conditions and requirements applicable to their discharges, including monitoring frequency and reporting required by TCEQ rules, into their SWMP in order to be eligible for permit coverage. For discharges not eligible for coverage under this general permit, the discharger must apply for and receive an individual TPDES permit prior to discharging.

5. Discharges to the Edwards Aquifer Recharge Zone

Discharges of storm water from regulated small MS4s, and other non-storm water discharges, can not be authorized by this general permit where those discharges are prohibited by 30 TAC Chapter 213 (relating to Edwards Aquifer). 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 under the Edwards Aquifer Rules are in addition to the requirements of this general permit. BMPs and maintenance schedules for structural storm water 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 storm water runoff are in addition to the effluent limitation requirements found in Part VI.D. of this general permit. A copy of the agency-approved Water Pollution Abatement Plans that are required by the Edwards Aquifer Rule must either be attached as a part of the SWMP or referenced in the SWMP. For discharges located on or within ten stream miles upstream of the Edwards Aquifer recharge zone, applicants must also submit a copy of the NOI to the appropriate TCEQ regional office.

Counties:

Contact:

Comal, Bexar, Medina, Uvalde,
and Kinney

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

Williamson, Travis, and Hays

TCEQ
Water Program Manager
Austin Regional Office
1921 Cedar Bend Drive, Suite 150
Austin, Texas 78758-5336
(512) 339-2929

6. Discharges to Specific Watersheds and Water Quality Areas

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

7. Protection of Streams and Watersheds by Home Rule Municipalities

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

8. Indian Country Lands

Storm water runoff from MS4s or construction activities occurring on Indian Country lands are not under the authority of the TCEQ and are not eligible for coverage under this general permit. If discharges of storm water require authorization under federal NPDES regulations, authority for these discharges must be obtained from the U.S. Environmental Protection Agency (EPA).

9. Other

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

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

D. Obtaining Authorization

1. Application for Coverage

When submitting an NOI and Storm Water Management Program (SWMP) as described in Parts II.D.3., II.D.4, and Part III for coverage under this general permit, the applicant must follow the public notice and availability requirements found in Part II.D.12. of this section.

Applicants seeking authorization to discharge under this general permit must submit a completed NOI, on a form approved by the executive director, and a SWMP as described in Part III. The NOI and SWMP must be submitted to the TCEQ Water Quality Division, at the address specified on the form. Discharge authorization begins when the applicant is notified by TCEQ that the NOI and SWMP have been administratively and technically reviewed and the applicant has followed the public participation provisions in Part II.D.12. Following review of the NOI and SWMP, the executive director may determine that: 1) the submission is complete and confirm coverage by providing a notification and an authorization number, 2) the NOI and/or SWMP are incomplete and deny coverage until a complete NOI and/or SWMP are submitted, 3) approve the NOI and/or SWMP with revisions and provide a written description of the required revisions along with any compliance schedule(s), or 4)

deny coverage and provide a deadline by which the MS4 operator must submit an application for an individual permit. Denial of coverage under this general permit is subject to the requirements of 30 TAC § 205.4(c). Application deadlines are as follows:

(a) Small MS4s Located in an Urbanized Area

Operators of small MS4s described in Part II.A.1 must submit an NOI and SWMP within 180 days following the effective date of this general permit.

(b) Designated Small MS4s

Operators of small MS4s described in Part II.A.2 must submit an NOI and SWMP within 180 days of being notified in writing by the TCEQ of the need to obtain permit coverage.

2. Late Submission of the NOI and SWMP

An NOI and SWMP are not prohibited from being submitted late or after the deadlines provided. If a late NOI and SWMP is submitted, authorization is only for discharges that occur after permit coverage is obtained. The TCEQ reserves the right to take appropriate enforcement actions for any unpermitted discharges.

3. Storm Water Management Program (SWMP)

A SWMP must be developed and submitted with the NOI for eligible discharges that will reach waters of the United States (U.S.), including discharges from the regulated small MS4 to other MS4s or privately-owned separate storm sewer systems that subsequently drain to waters of the U.S. according to the requirements of Part III of this general permit and submitted with the NOI. The SWMP must include a time line that demonstrates a schedule for implementation of the program throughout the permit term. The program must be completely implemented within five years of the issuance date of this general permit, or within five years of being designated for those small MS4s which are designated following permit issuance. Implementation of the SWMP is required immediately following receipt of written authorization from the TCEQ.

Changes may be made to the SWMP during the permit term. Changes that are made to the SWMP before the NOI is approved by the TCEQ must be submitted in a letter providing supplemental information to the NOI. Changes to the SWMP that are made after TCEQ approval of the NOI and SWMP may be made following written approval of the changes from the TCEQ, except that written approval is not required for the following changes:

- (a) Adding components, controls, or requirements to the SWMP; or replacing a BMP with an equivalent BMP, may be made by the permittee at any time upon submittal of a notice of change (NOC) form to the address specified on the form to the TCEQ.
- (b) Replacing a less effective or infeasible BMP specifically identified in the SWMP with an alternate BMP may be requested at any time. Changes must be submitted on

an NOC form to the address specified on the form. Unless denied in writing by the TCEQ, the change shall be considered approved and may be implemented by the permittee 60 days from submitting the request. Such requests must include the following:

- (1) an explanation of why the BMP was eliminated;
- (2) an explanation of the effectiveness of the replacement BMP; and
- (3) an explanation of why the replacement BMP is expected to achieve the goals of the replaced BMP.

4. Contents of the NOI

The NOI must contain the following minimum information:

(a) MS4 Operator Information

- (1) the name, mailing address, telephone number, and fax number of the MS4 operator; and
- (2) the legal status of the MS4 operator (e.g., federal government, state government, county government, city government, or other government).

(b) Site Information

- (1) the name, physical location description, and latitude and longitude of the approximate center of the regulated portion of the small MS4;
- (2) county or counties where the small MS4 is located;
- (3) an indication if all or a portion of the small MS4 is located on Indian Country Lands;
- (4) if the applicant develops a seventh minimum control measure to obtain authorization for construction activities, the boundary within which those activities will occur;
- (5) the name, mailing address, telephone number, and fax number of the designated person(s) responsible for implementing or coordinating implementation of the SWMP;
- (6) a certification that a SWMP has been developed according to the provisions of this permit;
- (7) a statement that the applicant will comply with the Public Participation requirements described in Part II.D.12.;

- (8) the name of each classified segment that receives discharges, directly or indirectly, from the small MS4. If one or more of the discharge(s) is not directly to a classified segment, then the name of the first classified segment that those discharges reach shall be identified;
- (9) the name of any MS4 receiving the discharge prior to discharge into surface water in the state; and
- (10) the name of all surface water(s) receiving discharges from the small MS4 that are on the latest EPA-approved CWA § 303(d) list of impaired waters.

5. Notice of Change (NOC)

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

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

6. Change in Operational Control of a Small MS4

If the operational control of the regulated small MS4 changes, the present operator must submit a Notice of Termination (NOT) and the new operator must submit a NOI and SWMP. The NOT and NOI must be submitted concurrently no greater than 10 days after the change occurs.

7. Notice of Termination (NOT)

A permittee may terminate coverage under this general permit by providing a Notice of Termination (NOT) on a form approved by the executive director. Authorization to discharge terminates at midnight on the day that an NOT is postmarked for delivery to the TCEQ. If TCEQ provides for electronic submission of NOTs during the term of this permit, authorization to discharge terminates 24 hours following confirmation of receipt of the electronic NOT form by the TCEQ. An NOT must be submitted within 30 days after the MS4 operator obtains coverage under an individual permit.

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

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

9. Fees

An application fee of \$100 must be submitted with each NOI. A fee is not required for submission of a waiver form, an NOT, or an NOC.

A permittee authorized under this general permit must pay an annual Water Quality fee of \$100 under Texas Water Code, § 26.0291 and 30 TAC Chapter 205 (relating to General Permits for Waste Discharges).

10. Permit Expiration

- (a) This general permit is effective for five years from the date of issuance. Authorizations for discharge under the provisions of this general permit may continue until the expiration date of the general permit. This general permit may be amended, revoked, or canceled by the commission or renewed by the commission for an additional term or terms not to exceed five years.
- (b) If the Executive Director proposes to reissue this general permit before the expiration date, the general permit shall remain in effect after the expiration date for those existing discharges covered by the general permit in accordance with 30 TAC, Chapter 205. The general permit shall remain in effect for these dischargers until the date on which the commission takes final action on the proposal to reissue this general permit. No new NOIs will be accepted and no new authorizations will be processed under the general permit after the expiration date.
- (c) Upon issuance of a renewed or amended general permit, all permittees, including those covered under the expired general permit, may be required to submit an NOI according to the requirements of the new general permit or to obtain a TPDES individual permit for those discharges.
- (d) If the commission does not propose to reissue this general permit within 90 days before the expiration date, permittees must apply for authorization under a TPDES individual permit or an alternative general permit. If the application for an individual permit is submitted before the expiration date, authorization under this expiring general permit remains in effect until the issuance or denial of an individual permit.

11. Suspension of Permit Coverage

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

immediately, if required by the executive director.

12. Public Participation

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

- (a) The applicant must submit the NOI and a SWMP to the executive director.
- (b) After the applicant receives written instructions from the TCEQ's Office of Chief Clerk, the applicant must publish notice of the executive director's preliminary determination on the NOI and SWMP.
- (c) The notice must include:
 - (1) the legal name of the MS4 operator;
 - (2) identify whether the NOI is for a new small MS4 or is a renewal of an existing operation;
 - (3) the address of the applicant;
 - (4) a brief summary of the information included in the NOI, such as the general location of the small MS4 and a description of the classified receiving waters that receive the discharges from the small MS4;
 - (5) the location and mailing address where the public may provide comments to the TCEQ;
 - (6) the public location where copies of the NOI and SWMP, as well as the executive director's general permit and fact sheet, may be reviewed; and
 - (7) if required by the executive director, the date, time, and location of the public meeting.
- (d) This notice must be published at least once in the newspaper of largest circulation in the county where the small MS4 is located. If the small MS4 is located in multiple counties, the notice must be published at least once in the newspaper of largest circulation in the county containing the largest resident population. This notice shall provide opportunity for the public to submit comments on the NOI and SWMP. In addition, the notice shall allow the public to request a public meeting. A public meeting will be held if the TCEQ determines that there is significant public interest.
- (e) The public comment period begins on the first date the notice is published and ends 30 days later, unless a public meeting is held. If a public meeting is held, the comment period will end at the closing of the public meeting. The public may submit written comments to the TCEQ Office of Chief Clerk during the comment period detailing how the NOI or SWMP for the small MS4 fails to meet the

technical requirements or conditions of this general permit.

- (f) If significant public interest exists, the executive director will direct the applicant to publish a notice of the public meeting and to hold the public meeting. The applicant must publish notice of a public meeting at least 30 days before the meeting and hold the public meeting in a county where the small MS4 is located. TCEQ staff will facilitate the meeting.
- (g) If a public meeting is held, the applicant shall describe the contents of the NOI and SWMP. The applicant shall also provide maps and other data on the small MS4. The applicant shall provide a sign in sheet for attendees to register their names and addresses and furnish the sheet to the executive director. A public meeting held under this general permit is not an evidentiary proceeding.
- (h) The applicant must file with the Chief Clerk a copy and an affidavit of the publication of notice(s) within 60 days of receiving the written instructions from the Office of Chief Clerk.
- (i) The executive director, after considering public comment, shall approve, approve with conditions, or deny the NOI based on whether the NOI and SWMP meet the requirements of this general permit.
- (j) Persons whose names and addresses appear legibly on the sign in sheet from the public meeting and persons who submitted written comments to the TCEQ will be notified by the TCEQ's Office of Chief Clerk of the executive director's decision regarding the authorization.

E. Permitting Options

1. Authorization Under the General Permit

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

(a) Participants

The SWMP must clearly list the name and permit number for each MS4 operator that contributes to development or implementation of the SWMP, and provide confirmation that the contributing MS4 operator has agreed to contribute. If a contributing MS4 has submitted an NOI and SWMP to TCEQ, but has not yet

received written notification of approval, along with the accompanying permit authorization number, a copy of the submitted NOI form must be made readily available or included in the SWMP.

(b) Responsibilities

Each permittee is entirely responsible for meeting SWMP requirements within the boundaries of its MS4. Where a separate MS4 operator is contributing to implementation of the SWMP, the SWMP must clearly define the contribution and clearly identify the contributing MS4 operator.

2. Alternative Coverage under an Individual TPDES Permit

An MS4 operator eligible for coverage under this general permit may alternatively be authorized under an individual TPDES permit according to 30 TAC Chapter 305 (relating to Consolidated Permits). The executive director may require an MS4 operator, authorized by this general permit, to apply for an individual TPDES permit because of: the conditions of an approved TMDL or TMDL implementation plan; a history of substantive non-compliance; or other 30 TAC Chapter 205 considerations and requirements; or other site-specific considerations.

F. Waivers

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

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

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

1. Waiver Option 1: The system serves a population of less than 1,000 within an urbanized area and meets the following criteria:
 - (a) the system is not contributing substantially to the pollutant loadings of a physically interconnected MS4 that is regulated by the NPDES / TPDES storm water program

(40 CFR § 122.32(d)); and

- (b) if the system discharges any pollutant(s) that have been identified as a cause of impairment of any water body to which the small MS4 discharges, storm water controls are not needed based on wasteload allocations that are part of an EPA approved or established "total maximum daily load" (TMDL) that addresses the pollutant(s) of concern.
2. Waiver Option 2: The system serves a population under 10,000 and meets the following criteria:
- (a) the TCEQ has evaluated all waters of the United States, including small streams, tributaries, lakes, and ponds, that receive a discharge from the small MS4;
 - (b) for all such waters, the TCEQ has determined that storm water controls are not needed based on wasteload allocations that are part of an approved or established TMDL that addresses the pollutant(s) of concern or, if a TMDL has not been developed or approved, an equivalent analysis that determines sources and allocations for the pollutant(s) of concern; and
 - (c) the TCEQ has determined that future discharges from the small MS4 do not have the potential to exceed Texas surface water quality standards, including impairment of designated uses, or other significant water quality impacts, including habitat and biological impacts.

Part III. Storm Water Management Program (SWMP)

To the extent allowable under state and local law, a SWMP must be developed and implemented according to the requirements of Part III of this general permit, for storm water discharges that reach waters of the United States, regardless of whether the discharge is conveyed through a separately operated storm sewer. The SWMP must be developed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act and the Texas Water Code. Existing programs or best management practices (BMPs) may be used to fulfill the requirements of this general permit. The MS4 operator must develop the SWMP to include the six minimum control measures described in Part III.A.1. through 6, and the operator may develop and include the optional seventh minimum control measure in Part III.A.7. Small MS4s have five years from the date of issuance of this general permit to fully implement their SWMP. A discharger's compliance with its approved SWMP will be deemed compliance with Part III of this permit.

Where the permittee lacks the authority to develop ordinances or to implement enforcement actions, the permittee shall exert enforcement authority as required by this general permit for its facilities, employees, and contractors. For discharges from third party actions, the permittee shall perform inspections and exert enforcement authority to the MEP.

If the permittee does not have enforcement authority and is unable to meet the goals of this general permit through its own powers, then, unless otherwise stated in this general permit, the permittee shall perform the

following action in order to meet the goals of the permit:

- Enter into interlocal agreements with municipalities where the small MS4 is located. These interlocal agreements must state the extent to which the municipality will be responsible for inspections and enforcement authority in order to meet the conditions of this general permit; or,
- if the permittee is unable to enter into inter-local agreements, notify the TCEQ's Field Operations Division as needed to report discharges or incidents that it can not itself enforce against.

The controls and Best Management Practices (BMPs) included in the SWMP constitute effluent limitations for the purposes of compliance with the requirements of 30 TAC Chapter 319, Subchapter B, related to Hazardous Metals.

A. Minimum Control Measures

1. Public Education and Outreach on Storm Water Impacts

- (a) A public education program must be developed and implemented to distribute educational materials to the community or conduct equivalent outreach activities that will be used to inform the public. The MS4 operator may determine the most appropriate sections of the population at which to direct the program. The MS4 operator must consider the following groups and the SWMP shall provide justification for any listed group that is not included in the program:

- (1) residents;
- (2) visitors;
- (3) public service employees;
- (4) businesses;
- (5) commercial and industrial facilities; and
- (6) construction site personnel.

The outreach must inform the public about the impacts that storm water run-off can have on water quality, hazards associated with illegal discharges and improper disposal of waste, and steps that they can take to reduce pollutants in storm water runoff.

- (b) The MS4 operator must document activities conducted and materials used to fulfill this control measure. Documentation shall be detailed enough to demonstrate the amount of resources used to address each group. This documentation shall be retained in the annual reports required in Part IV.B.2. of this general permit.

2. Public Involvement/Participation

The MS4 operator must, at a minimum, comply with any state and local public notice requirements when implementing a public involvement/participation program. It is recommended that the program include provisions to allow all members of the public within the small MS4 the opportunity to participate in SWMP development and implementation. Correctional facilities will not be required to implement this MCM.

3. Illicit Discharge Detection and Elimination

(a) Illicit Discharges

A section within the SWMP must be developed to establish a program to detect and eliminate illicit discharges to the small MS4. The SWMP must include the manner and process to be used to effectively prohibit illicit discharges. To the extent allowable under state and local law, an ordinance or other regulatory mechanism must be utilized to prohibit and eliminate illicit discharges. Elements must include:

(1) Detection

The SWMP must list the techniques used for detecting illicit discharges; and

(2) Elimination

The SWMP must include appropriate actions and, to the extent allowable under state and local law, establish enforcement procedures for removing the source of an illicit discharge.

(b) Allowable Non-Storm Water Discharges

Non-storm water flows listed in Part II.B and Part VI.B. do not need to be considered by the MS4 operator as an illicit discharge requiring elimination unless the operator of the small MS4 or the executive director identifies the flow as a significant source of pollutants to the small MS4. In lieu of considering non-storm water sources on a case-by-case basis, the MS4 operator may develop a list of common and incidental non-storm water discharges that will not be addressed as illicit discharges requiring elimination. If developed, the listed sources must not be reasonably expected to be significant sources of pollutants either because of the nature of the discharge or the conditions that are established by the MS4 operator prior to accepting the discharge to the small MS4. If this list is developed, then all local controls and conditions established for these listed discharges must be described in the SWMP and any changes to the SWMP must be included in the annual report described in Part IV.B.2. of this general permit, and must meet the requirements of Part II.D.3. of the general permit.

(c) Storm Sewer Map

- (1) A map of the storm sewer system must be developed and must include the following:
 - (i) the location of all outfalls;
 - (ii) the names and locations of all waters of the U.S. that receive discharges from the outfalls; and
 - (iii) any additional information needed by the permittee to implement its SWMP.
- (2) The SWMP must include the source of information used to develop the storm sewer map, including how the outfalls are verified and how the map will be regularly updated.

4. Construction Site Storm Water Runoff Control

The MS4 operator, to the extent allowable under State and local law, must develop, implement, and enforce a program to reduce pollutants in any storm water runoff to the small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre or if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more of land. The MS4 operator is not required to develop, implement, and/or enforce a program to reduce pollutant discharges from sites where the construction site operator has obtained a waiver from permit requirements under NPDES or TPDES construction permitting requirements based on a low potential for erosion.

- (a) The program must include the development and implementation of, at a minimum, an ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under state and local law.
- (b) Requirements for construction site contractors to, at a minimum:
 - (1) implement appropriate erosion and sediment control BMPs; and
 - (2) control waste such as discarded building materials, concrete truck washout water, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality.
- (c) The MS4 operator must develop procedures for:
 - (1) site plan review which incorporate consideration of potential water quality impacts;

- (2) receipt and consideration of information submitted by the public; and
- (3) site inspection and enforcement of control measures to the extent allowable under state and local law.

5. Post-Construction Storm Water Management in New Development and Redevelopment

To the extent allowable under state and local law, the MS4 operator must develop, implement, and enforce a program to address storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre of land, including projects less than one acre that are part of a larger common plan of development or sale that will result in disturbance of one or more acres, that discharge into the small MS4. The program must ensure that controls are in place that would prevent or minimize water quality impacts. The permittee shall:

- (a) Develop and implement strategies which include a combination of structural and/or non-structural BMPs appropriate for the community;
- (b) Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under state and local law; and
- (c) Ensure adequate long-term operation and maintenance of BMPs.

6. Pollution Prevention/Good Housekeeping for Municipal Operations

A section within the SWMP must be developed to establish an operation and maintenance program, including an employee training component, that has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

- (a) Good Housekeeping and Best Management Practices (BMPs)

Housekeeping measures and BMPs (which may include new or existing structural or non-structural controls) must be identified and either continued or implemented with the goal of preventing or reducing pollutant runoff from municipal operations. Examples of municipal operations and municipally owned areas include, but are not limited to:

- (1) park and open space maintenance;
- (2) street, road, or highway maintenance;
- (3) fleet and building maintenance;
- (4) storm water system maintenance;
- (5) new construction and land disturbances;

- (6) municipal parking lots;
- (7) vehicle and equipment maintenance and storage yards;
- (8) waste transfer stations; and
- (9) salt/sand storage locations.

(b) Training

A training program must be developed for all employees responsible for municipal operations subject to the pollution prevention/good housekeeping program. The training program must include training materials directed at preventing and reducing storm water pollution from municipal operations. Materials may be developed, or obtained from the EPA, states, or other organizations and sources. Examples or descriptions of training materials being used must be included in the SWMP.

(c) Structural Control Maintenance

If BMPs include structural controls, maintenance of the controls must be performed at a frequency determined by the MS4 operator and consistent with maintaining the effectiveness of the BMP. The SWMP must list all of the following:

- (1) maintenance activities;
- (2) maintenance schedules; and
- (3) long-term inspection procedures for controls used to reduce floatables and other pollutants.

(d) Disposal of Waste

Waste removed from the small MS4 and waste that is collected as a result of maintenance of storm water structural controls must be properly disposed. A section within the SWMP must be developed to include procedures for the proper disposal of waste, including:

- (1) dredge spoil;
- (2) accumulated sediments; and
- (3) floatables.

(e) Municipal Operations and Industrial Activities

The SWMP must include a list of all:

- (1) municipal operations that are subject to the operation, maintenance, or training program developed under the conditions of this section; and
- (2) municipally owned or operated industrial activities that are subject to TPDES industrial storm water regulations.

7. Authorization for Municipal Construction Activities

The development of a MCM for municipal construction activities is an optional measure and is an alternative to the MS4 operator seeking coverage under TPDES general permit TXR150000. Additionally, contractors working for the permittee are not required to obtain a separate authorization if they do not meet the definition of a "construction site operator," as long as the permittee meets the status of construction site operator. Permittees that choose to develop this measure will be authorized to discharge storm water and certain non-storm water from construction activities where the permittee can meet the definition of "construction site operator" in Part I of this general permit. The authorization to discharge under this MCM is limited to the regulated area, such as the portion of the MS4 located within an urbanized area or the area designated by TCEQ as requiring coverage. However, an MS4 operator may also utilize this MCM over additional portions of their MS4 that are also in compliance with all of the MCMs listed in this general permit. This MCM must be developed as a part of the SWMP that is submitted with the NOI for permit coverage. If this MCM is developed after submitting the initial NOI, a NOC must be submitted notifying the executive director of this change, and identifying the geographical area or boundary where the activities will be conducted under the provisions of this general permit. Utilization of this MCM does not preclude a small MS4 from obtaining coverage under the TPDES Construction General Permit, TXR150000, or under an individual TPDES permit.

- (a) The MCM must include:
 - (1) a description of how construction activities will generally be conducted by the permittee so as to take into consideration local conditions of weather, soils, and other site specific considerations;
 - (2) a description of the area that this MCM will address and where the permittee's construction activities are covered (e.g. within the boundary of the urbanized area, the corporate boundary, a special district boundary, an extra territorial jurisdiction, or other similar jurisdictional boundary); and
 - (3) either a description of how the permittee will supervise or maintain oversight over contractor activities to ensure that the SWP3 requirements are properly implemented at the construction site; or how the permittee will make certain that contractors have a separate authorization for storm water discharges.
 - (4) a general description of how a SWP3 shall be developed, according to Part VI.E. of this general permit, for each construction site.

B. General Requirements

Permittees must provide documentation of the development, implementation, and evaluation of the SWMP. The documentation must be included in the SWMP and may be required to be submitted in the annual report required in Part IV.B.2. of this general permit. At a minimum, the documentation must include:

1. a list of any public or private entities assisting with the development or implementation of the SWMP;
2. a list of all BMPs and measurable goals for each of the MCMs;
3. a schedule for the implementation of all SWMP requirements;
4. a description of how each measurable goal will be evaluated;
5. a rationale statement that addresses the overall program, including how the BMPs and measurable goals were selected; and
6. if applicable, a list of all MS4 operators contributing to the development and implementation of the SWMP, including a clear description of the contribution.

Part IV. Recordkeeping and Reporting

A. Recordkeeping

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

B. Reporting

1. General Reporting Requirements

(a) Noncompliance Notification

According to 30 TAC § 305.125(9), any noncompliance which may endanger human health or safety, or the environment, must be reported by the permittee to the TCEQ. Report of such information must be provided orally or by electronic facsimile transmission (FAX) to the TCEQ regional office within 24 hours of becoming aware of the noncompliance. A written report must be provided by the permittee to the TCEQ regional office and to the TCEQ Enforcement Division (MC-224) within five working days of becoming aware of the noncompliance. The written report must contain:

- (1) a description of the noncompliance and its cause;
- (2) the potential danger to human health or safety, or the environment;
- (3) the period of noncompliance, including exact dates and times;
- (4) if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
- (5) steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

(b) Other Information

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

2. Annual Report

The MS4 operator must submit a concise annual report to the executive director within 90 days of the end of each permit year. The annual report must address the previous permit year. The first permit year for annual reporting purposes shall begin on the date of permit issuance, and shall last for one year. Subsequent calendar years will begin on the anniversary date of permit issuance and last for one year. The MS4 operator must also make a copy of the annual report readily available for review by TCEQ personnel upon request. The report must include:

- (a) The status of the compliance with permit conditions, an assessment of the appropriateness of the identified BMPs, progress towards achieving the statutory

goal of reducing the discharge of pollutants to the MEP, the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals;

- (b) Status of any additional control measures implemented by the permittee (if applicable);
- (c) Any MCM activities initiated before permit issuance may be included, under the appropriate headings, as part of the first year's annual report;
- (d) A summary of the results of information (including monitoring data) collected and analyzed, if any, during the reporting period used to assess the success of the program at reducing the discharge of pollutants to the MEP;
- (e) A summary of the storm water activities the MS4 operator plans to undertake during the next reporting cycle;
- (f) Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements;
- (g) The number of municipal construction activities authorized under this general permit and the total number of acres disturbed;
- (h) The number of non-municipal construction activities that occurred within the jurisdiction of the permittee (as noticed to the permittee by the construction operator); and
- (i) Notice that the MS4 operator is relying on another government entity to satisfy some of its permit obligations (if applicable).

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

If permittees share a common SWMP, all permittees must contribute to a system-wide report (if applicable);

Each permittee must sign and certify the annual report in accordance with 30 TAC § 305.128 (relating to Signatories to Reports); and

The annual report must be submitted to the following address:

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

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

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

Part V. Standard Permit Conditions

- A. The permittee has a duty to comply with all permit conditions. Failure to comply with any permit condition is a violation of the general permit and statutes under which it was issued, and is grounds for enforcement action, for terminating coverage under this general permit, or for requiring a discharger to apply for and obtain an individual TPDES permit.
- B. Authorization under this general permit may be suspended or revoked for cause. Filing a notice of planned changes or anticipated non-compliance by the permittee does not stay any permit condition. The permittee must furnish to the executive director, upon request and within a reasonable timeframe, any information necessary for the executive director to determine whether cause exists for revoking, suspending, or terminating authorization under this general permit. Additionally, the permittee must provide to the executive director, upon request, copies of all records that the permittee is required to maintain as a condition of this general permit.
- C. It is not a defense for a discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the permit conditions.
- D. Inspection and entry shall be allowed under Texas Water Code Chapters 26-28, Health and Safety Code §§ 361.032-361.033 and 361.037, and 40 Code of Federal Regulations (CFR) §122.41(i). The statement in Texas Water Code § 26.014 that commission entry of a facility shall occur according to an establishment's rules and regulations concerning safety, internal security, and fire protection is not grounds for denial or restriction of entry to any part of the facility or site, but merely describes the commission's duty to observe appropriate rules and regulations during an inspection.
- E. The discharger is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code, Chapters 26, 27, and 28, and the Texas Health and Safety Code, Chapter 361 for violations including but not limited to the following:
 - a. negligently or knowingly violating CWA, §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under CWA, § 402; and
 - b. knowingly making any false statement, representation, or certification in any record or other document submitted or required to be maintained under a permit, including monitoring reports or reports of compliance or noncompliance.
- F. All reports and other information requested by the executive director must be signed by the person

and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

- G. Authorization under this general permit does not convey property or water rights of any sort and does not grant any exclusive privilege.
- H. The permittee shall implement its SWMP on any new areas under its jurisdiction that are located in a UA or that are designated by the TCEQ. Implementation of the SWMP in these areas is required three (3) years from acquiring the new area, or five (5) years from the date of the original SWMP, whichever is later.

Part VI. Authorization for Municipal Construction Activities

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

A. Eligible Construction Sites

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

B. Discharges Eligible for Authorization

1. Storm Water Associated with Construction Activity

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

2. Discharges of Storm Water Associated with Construction Support Activities

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

- (a) the activity is located within a 1-mile distance from the boundary of the permitted construction site and directly supports the construction activity;
- (b) a storm water pollution prevention plan is developed according to the provisions of this general permit and includes appropriate controls and measures to reduce erosion and discharge of pollutants in storm water runoff from the supporting industrial activity site; and
- (c) the construction support activity either does not operate beyond the completion date of the construction activity or obtains separate TPDES authorization for discharges as required.

3. Non-storm Water Discharges

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

- (a) discharges from fire fighting activities (fire fighting activities do not include washing of trucks, run-off water from training activities, test water from fire suppression systems, and similar activities);
- (b) fire hydrant flushings;
- (c) vehicle, external building, and pavement wash water where detergents and soaps are not used and where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material is removed)
- (d) water used to control dust;
- (e) potable water sources including waterline flushings;
- (f) air conditioning condensate; and
- (g) uncontaminated ground water or spring water, including foundation or footing drains where flows are not contaminated with industrial materials such as solvents.

4. Other Permitted Discharges

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

C. Limitations on Permit Coverage

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

D. Numeric Effluent Limitations

All discharges of storm water runoff from concrete batch plants must be monitored at the following monitoring frequency and comply with the following numeric effluent limitations:

<u>Parameter</u>	<u>Limitations</u> <u>Daily Maximum</u>	<u>Monitoring</u> <u>Frequency</u>
Total Suspended Solids	65 mg/l	1/Year
Oil and Grease	15 mg/l	1/Year
pH	between 6 and 9 standard units	1/Year

E. Storm Water Pollution Prevention Plan (SWP3)

Operators of municipal construction activities that qualify for coverage under this general permit and that discharge storm water associated with construction activities that reach waters of the U.S. must:

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

F. Effective Date of Coverage

Operators of construction activities eligible for coverage under this general permit are authorized to discharge storm water associated with construction activity from a site 48 hours from the time that the signed notice is posted at the site.

G. Deadlines for SWP3 Preparation and Compliance

The SWP3 must:

1. be completed and initially implemented prior to commencing construction activities that result in soil disturbance;
2. be updated as necessary to reflect the changing conditions of new contractors, new areas of responsibility, and changes in best management practices; and
3. provide for compliance with the terms and conditions of this general permit.

H. Plan Review and Making Plans Available

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

I. Keeping Plans Current

The permittee must amend the SWP3 whenever:

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

J. Contents of SWP3

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

1. A site description, or project description, must be developed to include:
 - (a) a description of the nature of the construction activity, potential pollutants and sources;

- (b) a description of the intended schedule or sequence of major activities that will disturb soils for major portions of the site;
 - (c) the number of acres of the entire construction site property and the total number of acres of the site where construction activities will occur, including off-site material storage areas, overburden and stockpiles of dirt, and borrow areas;
 - (d) data describing the soil type or the quality of any discharge from the site;
 - (e) a map showing the general location of the site (e.g. a portion of a city or county map);
 - (f) a detailed site map indicating the following:
 - (1) drainage patterns and approximate slopes anticipated after major grading activities;
 - (2) areas where soil disturbance will occur;
 - (3) areas which will not be disturbed;
 - (4) locations of all major structural controls either planned or in place;
 - (5) locations where stabilization practices are expected to be used;
 - (6) locations of off-site material, waste, borrow or equipment storage areas;
 - (7) surface waters (including wetlands) either adjacent or in close proximity; and
 - (8) locations where storm water discharges from the site directly to a surface water body.
 - (g) the location and description of asphalt plants and concrete plants (if any) providing support to the construction site and that are also authorized under this general permit;
 - (h) the name of receiving waters at or near the site that will be disturbed or that will receive discharges from disturbed areas of the project; and
 - (i) a copy of Part VI of this TPDES general permit.
2. The SWP3 must describe the structural and the non-structural controls (best management practices) that will be used to minimize pollution in runoff. The description must identify the general timing or sequence for implementation and the party responsible for implementation. At a minimum, the description must include the following components:

- (a) Erosion and Sediment Controls
 - (1) Erosion and sediment controls must be designed to retain sediment on-site to the maximum extent practicable with consideration for local topography and rainfall.
 - (2) Control measures must be properly selected, installed, and maintained according to the manufacturer's or designer's specifications. If periodic inspections or other information indicates a control has been used incorrectly, or that the control is performing inadequately, the operator must replace or modify the control.
 - (3) Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%.
 - (4) If sediment escapes the site, accumulations must be removed at a frequency to minimize further negative effects and, whenever feasible, prior to the next rain event.
 - (5) Controls must be developed to limit offsite transport of litter, construction debris, and construction materials by storm water runoff.

3. Stabilization Practices

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

- (a) Stabilization practices may include but are not limited to: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of existing trees and vegetation and other similar measures.
- (b) The following records must be maintained and either attached to or referenced in the SWP3 and made readily available upon request to the parties in Part VI.H. of this general permit:
 - (1) the dates when major grading activities occur;
 - (2) the dates when construction activities temporarily or permanently cease on a portion of the site; and
 - (3) the dates when stabilization measures are initiated.
- (c) Stabilization measures must be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and except as provided in (1) through (3) below, must be initiated no more than fourteen (14) days

after the construction activity in that portion of the site has temporarily or permanently ceased.

- (1) Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practicable.
- (2) Where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practicable. These conditions exist in arid areas (areas with an average rainfall of 0 to 10 inches), semiarid areas (areas with an average annual rainfall of 10 to 20 inches), and other areas experiencing droughts.
- (3) Where construction activity on a portion of the site is temporarily ceased and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of site.

4. Structural Control Practices

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

- (a) Sediment basins are required, where feasible, for common drainage locations that serve an area with ten (10) or more acres that remain disturbed at any one time. Sediment basins may be either temporary or permanent, but must be designed to store either the calculated volume of runoff from a 2 year, 24 hour storm from acreage drained, or designed to provide 3,600 cubic feet of storage per acre drained. When calculating the volume of runoff from a 2-year, 24-hour storm event, it is not required to include the flows from offsite areas and flow from onsite areas that are either undisturbed or have already undergone final stabilization, if these flows are diverted around both the disturbed areas of the site and the sediment basin. In determining whether installing a sediment basin is feasible, the permittee may consider factors such as site soils, slope, available area on site, public safety, and other similar considerations. Where sediment basins are not feasible, equivalent control measures, which may include a series of smaller sediment basins, must be used. At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions) of the construction area.
- (b) Sediment traps and sediment basins may be used to control solids in storm water runoff for drainage locations serving less than ten (10) acres. At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all

down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions) of the construction. Alternatively, a sediment basin providing storage for a calculated volume of runoff from these areas for a 2-year, 24-hour storm or 3,600 cubic feet of storage per acre drained may be provided.

5. Permanent Storm Water Controls

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

6. Other Controls

- (a) Off-site vehicle tracking of sediments and the generation of dust must be minimized.
- (b) The SWP3 must include a description of construction and waste materials expected to be stored on-site and a description of controls to reduce pollutants from these materials.
- (c) The SWP3 must include a description of pollutant sources from areas other than construction (including storm water discharges from dedicated asphalt plants and dedicated concrete plants), and a description of controls and measures that will be implemented at those sites to minimize pollutant discharges.

7. Approved State and Local Plans

- (a) Permittees must ensure the SWP3 is consistent with requirements specified in applicable sediment and erosion site plans or site permits, or storm water management site plans or site permits approved by federal, state, or local officials.
- (b) SWP3s must be updated as necessary to remain consistent with any changes applicable to protecting surface water resources in sediment erosion site plans or site permits, or storm water management site plans or site permits approved by state or local official for which the permittee receives written notice.

8. Maintenance

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

9. Inspections of Controls

- (a) Personnel provided by the permittee and familiar with the SWP3 must inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, all structural control measures for effectiveness and necessary maintenance, and locations where vehicles enter or exit the site for evidence of off-site tracking. Inspections must occur at least once every fourteen (14) calendar days and within twenty four (24) hours of the end of a storm event of 0.5 inches or greater. As an alternative, the SWP3 may be developed to require that these inspections will occur at least once every seven (7) calendar days; in which case additional inspections are not required following each qualifying storm event. If this alternative schedule is developed, the inspection must occur on a specifically defined day, regardless of whether or not there has been a rainfall event since the previous inspection.

Where sites have been finally or temporarily stabilized, where runoff is unlikely due to winter conditions (e.g. site is covered with snow, ice, or frozen ground exists), or during seasonal arid periods in arid areas (areas with an average annual rainfall of 0 to 10 inches) and semi-arid areas (areas with an average annual rainfall of 10 to 20 inches), inspections must be conducted at least once every month.

- (b) Personnel provided by the permittee and familiar with the SWP3 must inspect all accessible discharge locations to determine if erosion control measures are effective in preventing visually noticeable changes to receiving waters, including persistent cloudy appearance in water color and noticeable accumulation of sediments.

Where discharge locations are inaccessible, nearby downstream locations must be inspected to the extent that such inspections are practicable. The frequency for these inspections must be established by the permittee in the SWP3 with consideration for local rainfall and soil, but must occur at least once during the construction activity if a discharge occurs.

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

- (d) A report summarizing the scope of the inspection, names and qualifications of personnel making the inspection, the dates of the inspection, and major observations relating to the implementation of the SWP3 must be made and retained as part of the SWP3. Major observations should include: the locations of discharges of sediment or other pollutants from the site; locations of BMPs that need to be maintained; locations of BMPs that failed to operate as designed or proved inadequate for a

particular location; and locations where additional BMPs are needed.

- (e) Actions taken as a result of inspections must be described within, and retained as a part of, the SWP3. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the facility or site is in compliance with the SWP3 and this permit.
10. The SWP3 must identify and ensure the implementation of appropriate pollution prevention measures for all eligible non-storm water components of the discharge.

K. Additional Retention of Records

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

- 1. a copy of the SWP3; and
- 2. all reports and actions required by this general permit, including a copy of the site notice.



CONSTRUCTION SITE NOTICE

FOR THE
Texas Commission on Environmental Quality
Storm Water Program

TPDES GENERAL PERMIT TXR040000

The following information is posted in compliance with Part VI of the Texas Commission on Environmental Quality's (TCEQ) TPDES General Permit Number TXR040000 for discharges of storm water runoff from construction sites that are operated by small municipal separate storm sewer system operators. Additional information regarding the TCEQ storm water permit program may be found on the internet at: www.tceq.state.tx.us

Permit Number:	TXR04 _____
Contact Name and Phone Number:	
Project Description: (Including estimated start date and either the projected end date, or date that disturbed soils will be finally stabilized)	
Location of Storm Water Pollution Prevention Plan (SWP3):	

I, _____ (*Typed or Printed Name Person Completing This Certification*) certify under penalty of law that I have read and understand the eligibility requirements for claiming an authorization under Part VI of TPDES General Permit TXR040000. A storm water pollution prevention plan has been developed and implemented according to permit requirements. I am aware there are significant penalties for providing false information or for conducting unauthorized discharges, including the possibility of fine and imprisonment for knowing violations.

Signature

Date

CONCRETE BATCH FACILITIES

Attachment 2

STW/TXR04 / CO

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

NAME

DISCHARGE MONITORING REPORT (DMR)

NOTE: Enter your permit number in the underlined space in the upper right hand corner of this page. Example: STW/TXR04 00123/ CO

ADDRESS

PERMIT NUMBER: _____ DISCHARGE NUMBER: _____

Mail to:

TCEQ (MC 213)
P.O. Box 13087
Austin, TX 78711-3087

FACILITY LOCATION

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
01	01		12	31	
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

PARAMETER (32-37)	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS	
Total Suspended Solids	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
	SAMPLE REQUIREMENT	*****	*****	*****	*****	65 Daily Max		1/Year	Grab		
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
	SAMPLE REQUIREMENT	*****	*****	*****	*****	15 Daily Max		1/Year	Grab		
pH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
	SAMPLE REQUIREMENT	*****	*****	*****	*****	6.0 - 9.0 Range		1/Year	Grab		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	AVERAGE			MINIMUM			TELEPHONE				
	MAXIMUM			UNITS			DATE				
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						AREA CODE	NUMBER	YEAR	MO	DAY
	COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)										

CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO PREPARED THIS REPORT, I BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINES AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Appendix 4
Notice of Intent Form



Notice of Intent (NOI) for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems (MS4) under the TPDES Phase II MS4 General Permit (TXR040000)

TCEQ Office Use Only
Permit No.:
RN:
CN:



**Did you know you can pay on line? Go to <https://www6.tceq.state.tx.us/epay/>
Select Fee Type: GENERAL PERMIT MS4 PHASE II STORM WATER DISCHARGE NOI APPLICATION**

Application Fee: You must pay the \$100 Application Fee to TCEQ for the application to be considered complete.
How did you pay this fee?

<input checked="" type="checkbox"/> Mailed:	Check/Money Order No.:	Name Printed on Check: TX Commission on Environmental Quality
<input type="checkbox"/> EPAY:	Voucher No.:	Is the Payment Voucher copy attached? <input checked="" type="checkbox"/> Yes

IMPORTANT:

- Use the attached **INSTRUCTIONS** when completing this form.
- After completing this form, use the attached **CUSTOMER CHECKLIST** to make certain all items are complete and accurate.
- Missing, illegible, or inaccurate items may delay final acknowledgment or coverage under the general permit.

One (1) copy of the NOI and SWMP with the completed SWMP Cover Sheet MUST be submitted with the original NOI and SWMP.

Is the copy attached? Yes

A. OPERATOR (applicant)

1. If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity?

CN 600674683

2. What is the full Legal Name of the applicant?

City of Killeen

(The exact legal name must be provided.)

3. What is the applicant's mailing address as recognized by the **US Postal Service**?

Address: 101 N. College Street

Suite No./Bldg. No./Mail Code:

City: Killeen

State: Texas

ZIP Code: 76540-1329

Country Mailing Information (if outside USA).

Country Code:

Postal Code:

4. Phone No.: (254) 501-7621

Extension:

5. Fax No.: (254) 501-7628

E-mail Address: jnett@ci.killeen.tx.us

6. Indicate the type of Customer:

Federal Government
 City Government

State Government
 Other Government

County Government

7. Number of Employees:

0-20; 21-100; 101-250; 251-500; or 501 or higher

B. BILLING ADDRESS

The Operator is responsible for paying the annual fee. The annual fee will be assessed to permits **active on September 1 of each year**. TCEQ will send a bill to the address provided in this section. The Operator is responsible for terminating the permit when it is no longer needed.

Is the billing address same as the Operator Address? Yes, go to **Section C.** No, fill out **Section B**

1. Billing Mailing Address:

Suite No./Bldg. No./Mail Code:

City:

State:

ZIP Code:

2. Country Mailing Information (if outside USA).

Country Code:

Postal Code:

3. Billing Contact (Attn or C/O):

Phone No.: ()

Extension:

5. Fax No.: ()

E-mail Address:

c. Is the discharge or potential discharge from regulated construction activities within the Recharge Zone, Contributing Zone, or Contributing zone within the Transition zone of the Edwards Aquifer? Yes No

If the answer is "Yes", please note that a copy of the agency approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) must be either included or referenced in the construction storm water pollution prevention plan(s).

6. Discharge Information

a. What is the name of the receiving water body(s) from the MS4?

South Nolan Creek, Little Nolan Creek, Long Branch, Hay Branch, Reese Creek, Trimmier Creek, Rock Creek

b. What is the classified segment(s) that receives discharges, directly or indirectly, from the small MS4?

Segment 1218 - Nolan Creek/South Nolan Creek, Segment 1216 - Stillhouse Hollow Lake
Segment 1217 - Lampasas River Above Stillhouse Hollow Lake,

c. Are any of the surface water bodies receiving discharges from the small MS4 on the latest EPA-approved CWA § 303(d) list of impaired waters? Yes No

If Yes, what is the name of the impaired water body(s) receiving the discharges from the small MS4?

South Nolan Creek,
Lampasas River Above Stillhouse Hollow Lake

d. Is the discharge into any other MS4 prior to discharge into surface water in the state? Yes No

If Yes, what is the name of the MS4 Operator?

7. Edwards Aquifer

Is the discharge or potential discharge from the MS4 within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer? Yes No

If the answer is Yes, please note that a copy of the agency approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) for activities also regulated under this general permit must be either included or referenced in the SWMP.

8. Public Participation Process

The Office of Chief Clerk will send the operator or person responsible for publishing notice, the notice of the executive director's preliminary determination of the NOI and SWMP, for publishing in a newspaper of largest circulation in the county where the small MS4 is located. If multiple counties, notice must be published at least once in the newspaper of largest circulation in the county containing the largest resident population.

The applicant must file with the Chief Clerk a copy of an affidavit of the publication within 60 days of receiving the written instructions from the Office of Chief Clerk.

a. I will comply with the Public Participation requirements described in Part II.D.12 of the general permit. Yes No
If No, coverage under this general permit is not obtainable.

b. Who is the person responsible for publishing notice of the executive director's preliminary determination on the NOI and SWMP? (Note: All contact information requested below is required.)

Name: John P. Nett, P.E., CFM

Title: City Engineer

Company: City of Killeen

Address: 200 E. Avenue D

Suite No./Bldg. No./Mail Code:

City: Killeen

State: Texas

ZIP Code: 76541

Phone No.: (254) 501-7621

Extension:

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E-mail Address: jnett@ci.killeen.tx.us

c. What is the name and location of the public location where copies of the NOI and SWMP, as well as the executive director's general permit and fact sheet, may be viewed?

Name of Public Place: City of Killeen Public Works Office

Address of Public Place: 200 E. Avenue D, Killeen, Texas 76541

County of Public Place: Bell County

Appendix 5
Proposed Annual Report Outline

SAMPLE STORM WATER MANAGEMENT PROGRAM ANNUAL REPORT OUTLINE

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1.0 PERMIT COMPLIANCE

- 1.1. Best Management Practices
 - 1.1.1. BMP Implementation
 - 1.1.2. BMP Assessment
- 1.2. Measurable Goals Met
 - 1.2.1. Public Education and Outreach
 - 1.2.2. Public Participation and Involvement
 - 1.2.3. Illicit Discharge Detection and Elimination
 - 1.2.4. Construction Site Storm Water Runoff Control
 - 1.2.5. Post Construction Storm Water Management in Areas of New Development and Redevelopment
 - 1.2.6. Pollution Prevention/Good Housekeeping for Municipal Operations

2.0 DATA COLLECTION AND ANALYSIS

- 2.1. Monitoring Data
- 2.2. Illicit Discharge Detection Investigations
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3.0 PROPOSED STORM WATER ACTIVITIES

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4.0 PROPOSED CHANGES TO THE STORM WATER MANAGEMENT PROGRAM

- 4.1. Proposed Change #1
- 4.2. Proposed Change #2
- 4.3. Proposed Change #3