



City of Mansfield

Stormwater Management Program



and Texas Commission on Environmental Quality
Permit Application for Permit # TXR040207

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Accessibility Information

Copies of the Texas Commission on Environmental Quality Executive Director's General Permit TXR#040000 and Fact Sheet, and City Stormwater Management program can be requested in person or in writing by contacting the Environmental Manager:

Howard Redfearn
Environmental Manager
1200 E. Broad St
Mansfield, Texas 76063.

Additionally, requests can be made by email: howard.redfearn@mansfield-tx.gov or by accessing the documents through the Internet by visiting the City of Mansfield Stormwater Website at: <http://www.mansfield-tx.gov/departments/es/sm/>.

Copies of requested materials will be provided, or post marked, within 48 hours of request. The greatest effort will be made to ensure documents provided over the Internet are current, and the same as documents requested in writing.

PART I – REGULATORY BACKGROUND

1. Federal Regulation

The Federal Government addressed water pollution through the Federal Water Pollution Control Act (FWPCA) in 1948. The original statute has seen extensive revision since it was introduced. Section 402 of the 1972 Amendments to the FWCPA established the National Pollutant Discharge Elimination System (NPDES) authorizing the U.S. Environmental Protection Agency (EPA) to issue discharge permits for certain types of activities. The 1972 Amendments later became known as the Clean Water Act (CWA). Further Amendments to the FWCPA occurred in 1977. The 1977 Amendments established procedures for states to assume regulating authority of the NPDES program.

Citing the CWA as the legislative authority, Congress promulgated Phase I of the U.S. EPA's municipal stormwater program in 1990. Phase I relied on the NPDES permit coverage to address stormwater runoff from medium and large municipal separate storm sewer systems (MS4s), serving populations of 100,000 or greater. The Phase I requirements marked an attempt to address pollution from non-point sources.

The Stormwater Phase II Final Rule (promulgated December 8, 1999) was the next step in the EPA's efforts to preserve, protect, and improve the nation's water resources from polluted stormwater runoff. The Phase II program requires additional operators (small MS4s in urbanized areas) to implement programs and practices to control polluted stormwater runoff, through the NPDES permit program. The program requires Phase II municipalities to develop a Stormwater Management Program to outline actions taken to address stormwater pollution reduction.

2. State Regulation

On September 14, 1998 the U.S. EPA and the Texas Commission on Environmental Quality (TCEQ) signed a memorandum agreement for the TCEQ to assume the regulatory authority for the NPDES as it applies to the State of Texas. This program has been named the Texas Pollutant Discharge Elimination Program (TPDES). The TCEQ has already released permits applying to Industrial, Construction and Phase I of the Municipal stormwater programs. Each of these has a separate, applicable permit in which to comply with.

The first Phase II permit was released by the TCEQ as General Permit No. TXR040000 on August 13, 2007 and renewed December 13, 2013. Small MS4s that meet regulated criteria for Phase II of the TPDES Stormwater Program via the TPDES General Permit were given one hundred and eighty (180) days to respond by submitting a Notice of Intent and Stormwater Management Program.

By submitting its Stormwater Management Program and Notice of Intent (NOI) to comply with the TPDES Phase II regulations before the deadline of June 13, 2014, the City of Mansfield acknowledges the regulatory authority of the TCEQ and agrees to comply with TPDES TXR040000 permitting requirements to discharge directly into surface waters. This permit and authorization shall expire five years after the date of issuance.

PART II – MUNICIPALITY BACKGROUND

1. General

The City of Mansfield was incorporated in 1909, but can trace its community roots back to the mid 1800's. In 1857 Ralph S. Man and Julian B. Feild moved from Ft. Worth to the area around present day Mansfield. They opened a sawmill and one of the first steam powered gristmills in the State. Repeated misspelling of Feild's name eventually led to adoption of the current spelling. Mansfield's population fluctuated from slightly above to slightly below 1,000 until the 1960's. The 1960 population was near 1,300 but had grown to over 5,000 by 1970 and has continued to grow since that time. The 2000 census population for the City was 28,031 and in 2010 the population had increased to 56,358. The 2014 population estimate from the North Central Texas Council of Governments was 59,410. The current city limits cover an area of approximately 36 sq mi, with an extra-territorial jurisdiction area of approximately 17 sq mi.

The City of Mansfield is located in the Dallas-Fort Worth Metroplex. More than 28 sq mi of the City falls within Tarrant County, with nearly 7 sq mi in Johnson County and less than 2 sq mi in Ellis County. The northern boundary of the City of Mansfield is bordered by the City of Arlington. The eastern boundary is bordered in part by the City of Grand Prairie and Joe Pool Lake. Most of the southern boundary is bordered by unincorporated Johnson County. The Rendon Census Designated Place (CDP) borders the Tarrant County portion of the western boundary and the Johnson County portion is bordered by unincorporated Johnson County. The latitude and longitude coordinates for the centroid of the City of Mansfield are: 32° 34' 5.9520" N and 97° 6' 59.6736" W, as determined by the City's GIS system using the Lambert Conformal Conic projection and North American Datum 1983 coordinate system.

2. Receiving Waters

The primary receiving waters for the City of Mansfield are: Bowman Branch, Walnut Creek, Low Branch, and Mountain Creek; all of which drain into Joe Pool Lake. A small portion, slightly more than 0.5 sq mi or 1% of the total City area at the north boundary with Arlington drains into the Rush Creek watershed. Rush Creek confluences into Village Creek just after the Lake Arlington dam before it joins the West Fork of the Trinity River. Slightly less than 2%, or 0.7 sq mi, of the City's area drains into the Bowman Branch watershed, which then flows into Arlington and eventually into Grand Prairie before arriving in Joe Pool Lake. 20.5 sq mi, or slightly more than 55%, of the City's area drains into the Walnut Creek watershed, before it flows into Joe Pool Lake. The City of Mansfield covers nearly 25% of the total Walnut Creek watershed. The Low Branch watershed drains 6.6 sq mi or approximately 18% of the City's area. The City of Mansfield does not drain directly to Mountain Creek, but drains to several unnamed stream segments that discharge directly to Joe Pool Lake and therefore are tributaries of Mountain Creek. The watersheds for the unnamed streams cover approximately 9 sq mi, or about 26% of the City's area.

Joe Pool Lake is a 7,400-acre impoundment located in the south part of the Dallas-Fort Worth Metroplex. The lake is located partially in Grand Prairie, Dallas, Cedar Hill, Mansfield, and Midlothian and encompasses part of Dallas, Ellis, and Tarrant Counties. The main body of the lake located in-between SH 360 and FM 1382 about one mile south of IH-20. There are four developed parks at Joe Pool Lake: Britton Park, Cedar Hill State Park, Lloyd Park, and Lynn Creek Park, none of these parks are under City of Mansfield control or ownership.

Joe Pool Lake is fed mostly by Mountain Creek and Walnut Creek and continues to drain north from the Joe Pool Lake dam into Mountain Creek as it flows into Mountain Creek Lake. Joe Pool Lake impounds water in two arms formed by Mountain Creek and Walnut Creek. The Mountain Creek Watershed is in the Upper Trinity River Basin and has a length of 37 miles and a total drainage area of 304 square miles. There are 64 miles of shoreline at normal conservation pool of 522 feet mean sea level (msl). Impoundment began in January 1986. Trees and fences were cleared between 501 msl and 522 msl in the main body of the lake. However in the upper branches of the lake, the trees were left for fish habitat. Currently Joe Pool Lake serves as a reservoir for the City of Midlothian for their public water supply. Several other entities have water interests in Joe Pool Lake, but are not currently using the water resources.

3. Municipal Setting

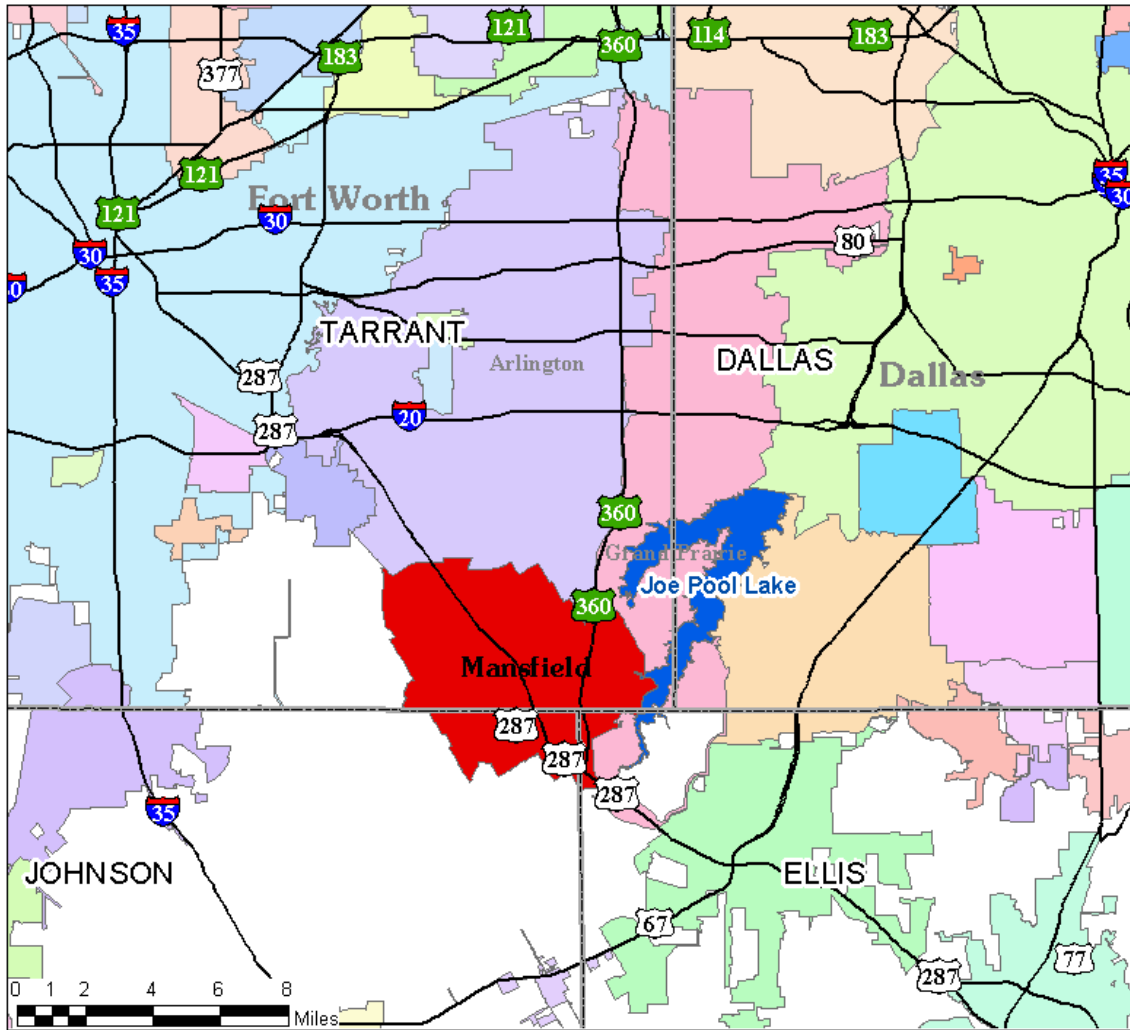
The City of Mansfield runs a Council-Manager form of government. Each member of the Council, including the Mayor, is elected at large meaning that there are no council districts in the City of Mansfield, but rather that each member represents the city as a whole.

The Mayor is recognized as head of the City Government for all ceremonial purposes and by the Governor for purposes of military law, but shall have no administrative duties. The person elected Mayor presides over all meetings of the City Council. Each Council member has an equal vote on all action taken by the Council. There are seven positions (6 council members and 1 mayor) to ensure that every issue that is taken before Council is granted a decision, there are no tie votes.

As designated by the city charter, the City Manager is appointed by the Mayor and City Council and serves as the chief administrative officer for the city organization. The City Manager manages the day-to-day operations of the various city departments and staff, directing delivery of services and executing all city policies and ordinances. In addition, the City Manager and his or her staff guide all goals and strategies of the city operations including future city development and expansion of services.



Surrounding Cities Map



PART III – PERMIT APPLICABILITY AND COVERAGE

1. MS4 Coverage and Eligibility

Approximately one half of the City of Mansfield's incorporated limits are located within the Dallas/Fort Worth urbanized area as identified by the 2010 Decennial Census by the U.S. Census Bureau. In addition to Permit #TXR040000 requirements for the Stormwater Management Program (SWMP) to be implemented throughout the portions of the City within the identified Urbanized Area, the City of Mansfield will implement the SWMP throughout the entire City limits area. Should the City limits expand to new areas, the City of Mansfield will comply with the permit requirements to implement the SWMP for the new areas within the required time. Based on the population at the effective date of this permit, the City of Mansfield is a LEVEL 3 community.

2. Allowable Non-Stormwater Discharges

The following non-stormwater discharges may be discharged from the City of Mansfield and are not required to be addressed in the Illicit Discharge Detection and Elimination or other minimum control measure, unless they are determined by the City of Mansfield or TCEQ to be significant contributors of pollutants:

1. A discharge authorized by, and in full compliance with, an NPDES and/or TPDES permit (other than the NPDES and/or TPDES permit for discharges from the MS4);
 2. A discharge or flow resulting from firefighting by the fire department;
 3. A discharge or flow of fire protection water that does not contain oil or hazardous substances or materials that the fire code requires to be contained and treated prior to discharge, in which case treatment adequate to remove harmful quantities of pollutants must have occurred prior to discharge;
 4. A discharge from a fire hydrant flushing;
 5. Incidental discharges from water line pressure release valves;
 6. Uncontaminated runoff or return flow from landscape irrigation, lawn irrigation, and other irrigation utilizing potable water, groundwater, or surface water sources;
 7. Uncontaminated water used for dust control purposes;
 8. A discharge or flow from a diverted stream flow or natural spring;
 9. A discharge or flow from uncontaminated pumped groundwater or rising groundwater;
 10. Uncontaminated groundwater infiltration (as defined as 40 C.F.R. § 35.2005(20)) to the MS4;
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11. Uncontaminated discharge or flow from a foundation drain, crawl space footing drain, or sump;
12. A discharge or flow from a potable water source not containing any harmful substance or material from the cleaning or draining of a storage tank or other container;
13. A discharge or flow from air conditioning condensation that is unmixed with water from a cooling tower, emissions scrubber, emissions filter, or any other source of pollutant;
14. A discharge or flow from a riparian habitat or wetland;
15. A discharge or flow from water used in street washing that is not contaminated with any soap, detergent, degreaser, solvent, surfactant, emulsifier, dispersant, or any other harmful cleaning substance;
16. Stormwater runoff from a roof that is not contaminated by any runoff or discharge from an emissions scrubber, filter, or any other source of pollutant;
17. Swimming pool water free of diatomaceous earth and that contains no harmful quantity of free chlorine (less than 0.5ppm), muriatic acid or other chemical (less than 20ppm cyanuric acid) used in the treatment or disinfection of the swimming pool water or in pool cleaning and pH must be between 6.0 and 9.0 standard units;
18. A discharge of flow from a temporary car wash sponsored by a civic group, school, religious, and/or nonprofit organization;
19. A discharge of flow from individual residential car washing activities;
20. Other allowable non-stormwater discharges listed in 40 CFR § 122.26(d)(2)(iv)(B)(1);
21. Non-stormwater discharges that are specifically listed in the TPDES Multi Sector General Permit (MSGP) or the TPDES Construction General Permit; and
22. Other similar occasional incidental non-stormwater discharges, unless the TCEQ develops permits or regulation addressing these discharges.

3. Coverage Limitations

The City understands that other discharges requiring a TPDES permit may be authorized under this Stormwater Management Program, however, the City elects to file for those permits separately as they are needed and necessary.

The City currently has no combined sanitary and storm sewer systems, nor will any be constructed in the foreseeable future. Any flows of combined sanitary and storm water shall be treated as an illicit discharge and corrected as soon as possible after such flows are discovered.

No discharges from the City affect water quality within the Edwards Aquifer.

The City recognizes that coverage under this General Permit does not allow the City to have stormwater and non-stormwater discharges into areas already protected by 30 TAC Chapter 311 (relating to Watershed Protection) for water quality areas and watershed.

The City understands that coverage under this permit does not authorize the City to discharge into a stream or watershed that any flows that would violate another home rule municipality's authority to protect said stream or watershed as granted by § 401.002 of the Texas Local Government Code.

The City has no discharges entering Indian Country Lands.

4. DISCHARGES TO IMPAIRED WATERS

The City pledges to not knowingly or intentionally discharge to surface waters of the State in a manner that would contribute to a violation of water quality standards or that would fail to protect and maintain existing uses as a part of this permit. The City is aware that discharges contributing to a violation of water quality standards are not covered by this general permit. Should the City find itself in a position where discharges of this nature occur, the City is aware that the executive director may require an application for an individual permit.

City staff currently has knowledge that stormwater discharges from the City flow in to two impaired water bodies, as noted by a listing in the most current EPA approved Clean Water Act § 303(d) list. City staff shall maintain current knowledge of impaired water bodies as reported by the TCEQ or EPA to ensure that additional designated impaired water bodies receiving discharges from the City are treated appropriately regarding water quality standard implications and take appropriate actions to protect water quality when necessary.

A portion of the watershed for Rush Creek, which the City of Mansfield discharges into, is listed in the TMDL and Implementation Plan (IPlan) for Seventeen Total Maximum Daily Loads (TMDL) for Bacteria in the Greater Trinity River Region. The Implementation Plan was approved December 11, 2013. Approximately 300 acres of the far headwaters of this watershed are what are located in Mansfield. Mansfield was NOT listed as one of the impacted communities according to the approved IPlan for this TMDL. The City of Mansfield has adopted as a "benchmark" for the discharge coming from this 300 acre area as the TMDL WLA of 678.7 MPN/day. It is the City of Mansfield's supposition that discharges from this 300 acre drainage area are already in compliance with this "benchmark", as there is no indication or reason to suspect discharges from this area exceed this "benchmark".

West of US 287 the characteristics of this watershed are largely undeveloped or large tract single family homes without sewer service provided by the City of Mansfield. There are approximately 15 commercial properties and 66 residential properties in the watershed concerned that are on septic systems but are receiving treated water from the City. In addition, there are 6 commercial and 208 residential properties that are on both City water and sewer, representing a total of 65 acres. In this same area, there are 19 commercial and 23 residential acres of land available for development that would be able to get their water and sewer from the existing infrastructure. This represents a little over 1/3 of the affected watershed area in Mansfield that is currently tied into the City's sewer system. Additionally, the Mansfield Rush Creek watershed area represents less than 0.5 sq mi of a several square mile watershed. The influence of Mansfield discharges into this impaired water body would be negligible at best.

The Walnut Creek section flowing through Mansfield, stream segment 0838C, described in the 2012 303d list as: “A 7 mile stretch of Walnut Creek running upstream from Holland Road, to confluence with Willow Branch, NW Mansfield, Tarrant County,” has been listed every biennium as impaired for bacteria since 2006. The maximum exceedance listed was 159 MPN units and the lowest exceedance was 130 MPN units.

In response to Part II Section D.4(b)(1)a. the City acknowledges it cannot claim discharges from its MS4 do not likely contain the pollutant of concern related to the impairment in Walnut Creek. Included in the list of BMPs there will be items that may have a component designed to hopefully reduce discharges of bacteria as well as other BMPs designed specifically to reduce discharges of bacteria. As stated in the next section of this SWMP these BMPs will carry an identifier to make clear when that is the case. Many of these BMPs will be based upon, or similar to, those BMPs contained in the approved IPlan for the Greater Trinity River Region.

PART IV – STORMWATER MANAGEMENT PROGRAM

The Stormwater Management Program (SWMP) developed by the City of Mansfield is described in the following sections. The City has opted to include the seventh minimum control measure (MCM) for municipal construction activities and Best Management Practices (BMPs) are listed describing the City's construction oversight program. The following sections describe the six MCMs and the BMPs employed by the City to accomplish the goals for the individual MCMs. An implementation schedule for each of the BMPs is included, as well as the measurable goals and responsible parties associated with individual BMPs. Additionally, the City will use the following signifiers indicating if the BMP is:

- a carry over from the previous SWMP – no indicator;
- a new BMP for this permit term – a capital “N” at the end of the BMP title;
- a new BMP specific for bacteria – a capital “B” at the end of the BMP title; or
- a BMP which may have some bacteria components but not exclusively so – a capital “(B)” bracketed by parenthesis. This identification is intended to satisfy the subsection for each MCM stating the “permittee shall review and update as necessary the SWMP and MCM implementation procedures required by Part III.A.2.” The measurable goals for each BMP shall reference the section(s) of the permit any portion of that BMP may be applicable to.

The resulting BMPs were selected for their perceived effectiveness to prevent water quality impairments and/or flooding hazard. A short description of the BMP has been developed. Throughout the implementation period of this permit, 5 years, evaluation of the measurable goals associated with the BMPs will determine their effectiveness. BMPs identified as ineffective will be altered to become more effective, or replaced with BMPs that are more effective. The City of Mansfield will provide feedback on BMP effectiveness to other municipalities in the region and will evaluate the experiences of other municipalities in the region by attending meetings hosted by the North Central Texas Council of Governments (NCTCOG) to develop a comprehensive and effective SWMP.

In an effort to maximize program effectiveness and resource allocation, the City respectfully requests permission to implement BMPs above and beyond those listed in the following sections, and identify those actions as additional BMPs upon submittal of the annual report for which the BMP is associated. Some of these BMPs may be transient in nature, as part of a pilot program, or otherwise unplanned opportunities for improving water quality that requires fast action to take advantage of educational opportunities. Results of these programs will be included in the Annual Report for the year in which they were implemented and shall be identified as additional BMPs. When appropriate, the additional BMPs may be incorporated into the permanent SWMP with an NOC.

The City shall retain the right to assert a *force majeure* defense to alter the implementation of the SWMP as stated in the following sections due to war, strike, riot, other catastrophe or an act of God without applying for a NOC or otherwise notifying the State of a change in implementation status in order to effectively deal with the event, and shall, as soon as the City is able, submit an amended SWMP to the State with an NOC identifying alterations to the implementation of parts, or all, of the SWMP due to the event causing the suspension of implementation. The NOC shall identify the event causing the alteration(s) as well as a justification for why activities were altered, and a new timeline for implementation shall be adopted for affected BMPs.

City staff developed the SWMP for the City of Mansfield by considering permit requirements, other City SWMPs, comments from NCTCOG meetings and other resources. The City of Mansfield will also participate in appropriate portions of the Regionally Developed Initiative (RDI) program developed

through the NCTCOG. This program is designed to provide stormwater quality improvements on a regional scale by sharing information and coordinating resources and efforts. Participation in this program will be above and beyond the minimum permit requirements.

The City Manager shall direct a staff position, within the Environmental Services Department, or other City department or division as seen appropriate, as the primary point of contact for SWMP questions and comments. Contact information is contained in Appendix C for the primary point of contact for all other parties with responsibilities implementing the SWMP.

1. PUBLIC EDUCATION, OUTREACH, AND INVOLVEMENT

1.I. Overall Program

The City of Mansfield has several established methods of providing educational information to residents and other sectors of the City's population. Many of these methods will be used to circulate stormwater related educational materials developed by City staff, as well as applicable materials developed by other organizations. The methods and materials used for this MCM will be designed to address the population groups identified in the BMP descriptions.

The individual BMPs are identified in Section 1.II, along with their description, responsible parties, measurable goals and implementation schedule.

1.II. Public Education and Awareness Best Management Practices

BMP 1.1 – NOI and SWMP Notification

Description - The City will comply with local and State policies regarding public notification of the submittal of the NOI and SWMP to the TCEQ, as well as the Executive Director's decision on the City's NOI and SWMP as directed under TXR040000 Part II. Section E. Item 12.

Measurable Goals/Evaluation – Part II Section E.12 - Notify the public about the submittal and the Executive Director's decision regarding the NOI and SWMP by placing the public notice announcement in the newspaper of largest circulation within Tarrant, the Fort Worth Star Telegram. Submit copies of printed announcement materials to the TCEQ with the applicable annual report.

Responsible Parties - Environmental Services; Public Information Office

Implementation Schedule -

Year 1-July – Within 14 days after receipt of written instructions from Office of Chief Clerk, publish public notification in compliance with Part II. Section E. Item 12 of TCEQ permit TXR040000. Conduct any subsequent public comment efforts in a timely manner as needed.

Other public notifications will follow as applicable when qualifying changes have been made.

BMP 1.2 – Annual Report Presentation – (B)

Description – As a document that will be developed by staff, the Annual Report shall be a public document. In an effort to increase transparency in the Stormwater Management Program, the City shall make the Annual Report available for resident review at City Hall through a request. Additionally, a copy of the Annual Report shall be available on the City's website at a location deemed appropriate. A presentation to the City Council shall be conducted every year to ensure that City Leadership is aware of the implementation results from the previous year and upcoming implementation activities. Information related to the bacteria impairment will be included in the Annual Report Presentation. City staff have decided to use the fiscal year as the reporting period.

Measurable Goals/Evaluation – Part II Section D.4(b); Part III Section B.1(a) - Make copies of the Annual Report available for resident review at City hall and on the City’s website. The City shall include a copy of the agenda for the City Council meeting in which the Annual Report was included. Additionally, the website address where the Annual Report shall be available will be included as well.

Responsible Parties - Environmental Services; Information Technology

Implementation Schedule -

Years 1-5- October-September – The City shall conduct this BMP every year within the deadline for the Annual Report to the State.

BMP 1.3 – City Communication Program – (B)

Description – The City provides information to residents through a variety of communication channels. These include the online Citizen Newsletter, Facebook, Twitter, E-Newsletter, Cable Channel and others. As other communication channels become available, messages will be prepared for them as well. The City will continue to provide the Citizen Newsletter to its residents, however the delivery format has changed and it is now an online only production. This will allow the City to make information available in a timelier manner, but it will no longer be guaranteed to be delivered to every household. Announcements about events, articles related to seasonal issues and associated items will be provided to residents through this publication. Developing articles related to the stormwater program, pollution prevention, and encouraging public participation should not be time consuming or difficult and should result in a reasonable return in increased awareness. In addition, the City may publish information from time to time as a statement on utility bills, or provide an additional insert into utility bills. Utility bill inserts are becoming far less effective as a means to reach the public because of electronic payment options and other avenues of information delivery. Therefore a focus on utility bill messages and inserts will not be made, but may continue to occur as an augmentation to other methods.

Measurable Goals – Part II Section D.4(b); Part III Section B.1(a);(b)(2)(3); B.2(c)(3) – Articles related to water quality and conservation shall be prepared and made available for residents through the available communication channels. If feasible, the number of views per story will be recorded and reported. The City should have the ability to track hits to the online Citizen Newsletter. Included in the annual report will also be the number of people who have liked the Facebook page and following Twitter account. Only the number of likes or followers at the end of the fiscal year will be reported. The number of videos or presentations prepared for the cable channel will also be included in the annual report. When applicable, a notation that the article was related to bacteria improvements will be included in the annual report.

Responsible Parties - Stormwater - Environmental Services; Utility Services; Public Information Office

Implementation Schedule -

Years 1-5-October-September – Develop articles to be printed in the Citizen Online Newsletter on a schedule of no less than two articles per year.

BMP 1.4 – Mansfield News Mirror Articles – N(B)

Description - The City will continue to publish articles related to water quality and conservation, to include announcements about upcoming events and opportunities for residents to be involved, through the locally distributed newspaper. Additionally, some of the articles printed in the newspaper are made available through its online option. At this time, the News Mirror is delivered at no cost or subscription to all residents.

Measureable Goals - Part II Section D.4(b); Part III Section B.1(a,b); B.2(c)(3) – Articles related to water quality and conservation shall be prepared and made available for residents through the Mansfield News Mirror newspaper, both in print and online. If feasible, the number of articles in print and online shall be recorded and reported separately. When applicable, a notation that the article was related to bacteria improvements will be included in the annual report.

Responsible Parties - Stormwater - Environmental Services; Utility Services; Public Information Office

Implementation Schedule -

Years 1-5- October-September – Develop articles to be printed in the Mansfield News Mirror Newspaper on a schedule of no less than two articles per year.

BMP 1.5 – Other Publication Articles – N(B)

Description – In addition to the Citizen Online Newsletter and Mansfield News Mirror there are magazines published and delivered to all residences and several businesses. These magazines often include articles related to water quality protection or water conservation. City staff do not publish these magazines, nor have we had the option of writing articles for these magazines. Past topics have included plant selection, fertilizing and pest control, and several home and gardening tips.

Measureable Goals – Part II Section D.4(b); Part III Section B.1(a,b); B.2(c)(3) – Articles related to water quality and conservation shall be prepared and made available for residents through the Mansfield News Mirror newspaper, both in print and online. If feasible, the number of related articles printed shall be recorded and reported separately. When applicable, a notation that the article was related to bacteria improvements will be included in the annual report.

Responsible Parties - Stormwater - Environmental Services;

Implementation Schedule -

Years 1-5- October-September – Track articles to be printed in the Mansfield area magazines as they are printed.

BMP 1.6 – Stormwater Web Pages on City Website – (B)

Description – The City is in the process of redesigning its website and changing its URL to increase online accessibility to the information. There are several pages that have never been visited, and pages that were created years ago without updates being made. A consultant has been brought in to help in streamlining the delivery of online content. It is anticipated the amount of information on the City’s stormwater related pages will be significantly reduced; however, the

important information citizens use most will remain and will be much easier to access once the update is complete.

Measurable Goals – Part II Section D.4(b); Part III Section B.1(a,b); B.2(c)(3) - Maintain up to date stormwater information on web pages included as part of the City of Mansfield website.

Responsible Parties - Stormwater - Environmental Services; Utilities Services; Public Information Office; Information Technology

Implementation Schedule -

Year 1-January-August – Complete website overhaul.

Years 2-5-October-September – Continue to post new information as it becomes available.

BMP 1.7 – Development Review Committee and Other Construction Meetings

Description - City staff are made available every Wednesday to answer questions and review City policies regarding development within the City. City staff are also made available to review City expectations and regulations for pre-construction meetings, and other construction related meetings as needed. Currently attending City staff will be provided information on stormwater regulations and requirements for the purpose of providing guidance to builders and developers attending the meetings. Brochures and handouts may be developed in order to support the goals of the SWMP. The Development Review Committee is one of the first chances to interact with the development community. It is an important time to inform potential developers of City stormwater expectations and reinforce State and Federal requirements.

Measurable Goals/Evaluation - Part III Section B.1(a); B.3; B.4 - City staff are made available every Wednesday to answer questions and review City policies regarding development within the City. In instances where personnel from the Environmental Services department are present, a list of projects, contacts for those projects, and any information made available to members of the development community will be noted.

Responsible Parties - Environmental Services; Engineering; Planning

Implementation Schedule -

Years 1 thru 5- October-September – Parts of this BMP are already in place. The Environmental Manager, other designated and trained current City staff or new staff may attend meetings as needed to discuss stormwater concerns with attendees and distribute materials as deemed necessary.

BMP 1.8 – Stormwater Education and Awareness Program – N(B)

Description – The City uses a wide variety of means and measures to promote pollution prevention, water conservation and other activities related to improving water quality. City staff and Keep Mansfield Beautiful members attend a variety of events setting up booths or handing out information to attendees, as well as discussing the issues during conversations at the events. In addition, the City has recently opened the first phase of the Oliver Nature Park. It is currently a predominantly passive learning experience, but in the next phase of development an Outdoor

Learning Center will be constructed and the City will partner with the school district for classes, as well as holding education events for the City itself.

Measurable Goals/Evaluation - Part II Section D.4(b); Part III Section B.1(a,b); B.2(c)(3) - A summary of the items purchased for use will be included in the Annual Report for that year. It has been determined to be infeasible to track the number of items given away at the multiple events throughout the year as not all materials are consumed within the year they were purchased, and the small items or pages are difficult to count before and after an event. When possible, the total estimated attendance of the events will be reported. For the park, flyers for special events or classes as well as attendance counts will be included. School field trip information will also be included.

Responsible Parties - Environmental Services; Public Information Office; Parks; Utility Services

Implementation Schedule -

Years 1-5- October-September – Evaluate materials as used to this point based on responses from individuals receiving materials, and make new materials available as deemed necessary. Continue materials availability as necessary.

BMP 1.9 – Stormwater Public Education Task Force Regionally Developed Initiative – (B)

Description - Exchange professional experience, share public education resources, develop and implement opportunities for regional cooperation by participating in the Stormwater Public Education Task Force. The Task Force provides municipal coordinators an opportunity to share information and learn about local, regional and national initiatives in the area of stormwater education. The Task Force facilitates and maximizes the impact and effectiveness of outreach activities.

Measurable Goals/Evaluation - Part II Section D.4(b); Part III Section B.1(a,b); B.2(c)(3) - Attend Task Force meetings as feasible. Participate in Task Force initiatives and cooperative opportunities as appropriate. Share information regarding City activities, their implementation and effectiveness. Provide implementation information of Task Force created initiatives to the NCTCOG for consolidation into regional report and retain a copy on site.

Responsible Parties - Environmental Services

Implementation Schedule -

Years 1 thru 5- October-September – Attend meetings as feasible and document initiatives developed by Task Force to be implemented by the City. A report of activities of Task Force is generated by NCTCOG, and a copy will be retained on site for review.

BMP 1.10 – Storm Drain Inlet Markers Regionally Developed Initiative – (B)

Description - The City will solicit volunteers from different organizations or individuals to participate in a storm drain marking campaign and record the number of participants, drains marked, and percentage of marked drains for the area and include this information in the annual report. The City of Mansfield will participate in the North Central Texas Council of Governments (NCTCOG) regional stormwater initiative by purchasing storm drain markers through NCTCOG.

This will help to deliver a cohesive message throughout the region on the risks of stormwater pollution. Volunteers will be provided with some safety equipment to ensure they are visible. Storm drain inlet markers will be restricted to residential neighborhoods, or business parking lots to increase safety of volunteers. Volunteers will be provided educational instruction on the importance of reducing stormwater pollutant to answer basic questions while installing storm drain markers. Storm drain inlet markings provide an opportunity to educate the volunteers as well as the local community where the inlets are located. Current experience indicates that marking all inlets is not effective, and that some should remain unmarked. It is the goal of the City of Mansfield to mark between 40%-75% of all inlets for a given area. This may vary based on location and proximity of inlets to one another. During this permit term, it is also possible previously marked storm drains will be inspected to determine if re-marking is necessary. There are 513 existing marked drains out of 2,649.

Measurable Goals/Evaluation - Part II Section D.4(b); Part III Section B.1(a);(b);B.2(a)(1)- The City will solicit volunteers from different organizations or individuals to participate in a storm drain marking campaign and record the number of participants, drains marked, and percentage of marked drains for the area and include this information in the annual report. A database of the drain location and installation date will be created to facilitate maintenance and inspection.

Responsible Parties - Stormwater - Environmental Services; Public Information Office

Implementation Schedule -

Years 1-5- October-September – Solicit volunteers for the Storm Drain Marking Program by advertising in local media and other outlets and avenues. Upon contact from volunteers, determine area to be marked, and provide maps of inlets, adhesive, markers and other supplies necessary for project. Collect information from volunteers and update the SDMP layer in the GIS database. Order new markers or additional adhesive as necessary. If no volunteers come forward, or all identified inlets have been marked, then this shall be indicated within the Annual Report.

BMP 1.11 – Clean Up Programs

Description - City staff will assist the Keep Mansfield Beautiful Commission in coordination and hosting of Clean Up events designed to keep large items, floatables and debris, from entering the waterways. Clean Up events are an excellent activity to create local ownership of environmental resources, educating the public and preventing pollutants from entering local waterways.

Measurable Goals/Evaluation – Continue to assist the KMBC in coordinating and hosting Clean Up events and track the location of each event, the number of participants, and the weight/volume of items removed for inclusion in the annual report. If an event cannot be coordinated, this shall be noted in the Annual Report with an explanation.

Responsible Parties - Environmental Services; Utilities Services; Public Information Office; Parks; Keep Mansfield Beautiful Commission

Implementation Schedule -

Years 1-5- October-September – Continue activities from previous permit.

BMP 1.12 – Beautification/Tire Amnesty Days

Description – Historically, Beautification Days were organized by the Mansfield Chamber’s Women’s Division. However, for the past 2 years the City and KMBC have taken over coordination of these events. Beautification Days are held in the Spring and Fall and residents are able to bring in large and bulky items, including tree limbs, to be dropped off without paying a fee. This is not a new BMP, but has been separated from the Cleanup Programs from the previous permit for reporting and tracking purposes.

Measurable Goals/Evaluation – Continue to assist the KMBC in coordinating and hosting Beautification/Tire Amnesty Day events and track the location of each event, the number of participants, and the weight/volume of items removed for inclusion in the annual report. If an event cannot be coordinated, this shall be noted in the Annual Report with an explanation.

Responsible Parties - Environmental Services; Utilities Services; Public Information Office; Keep Mansfield Beautiful Commission

Implementation Schedule -

Years 1-5- October-September – Continue activities from previous permit.

BMP 1.13 – Neighborhood Beautification Program

Description – The City began the Neighborhood Beautification Program during the previous permit. Under this program, the City will provide all supplies, including a dumpster for disposal if warranted, for a small neighborhood-wide cleanup. The City does not take part in organizing the cleanup, but only provides supplies. This is not a new BMP, but has been separated from the Cleanup Programs from the previous permit for reporting and tracking purposes.

Measurable Goals/Evaluation – Continue to offer support to motivated citizens by making materials available for the Neighborhood Beautification Program and track the location of each event, the number of participants, and the weight/volume of items removed for inclusion in the annual report. If an event cannot be coordinated, this shall be noted in the Annual Report with an explanation.

Responsible Parties - Environmental Services; Utilities Services; Public Information Office; Keep Mansfield Beautiful Commission

Implementation Schedule -

Years 1-5- October-September – Continue activities from previous permit.

BMP 1.14 – Christmas Tree Recycling/Tree Limb Collection and Free Mulch Program

Description – The City has sponsored Christmas Tree and Tree Limb Collections since the previous permit. Under this program, the City provides a location where residents can bring their Christmas trees and tree limbs and when enough material has been collected the City will have the material ground into mulch. The mulch is then provided to residents for free on appropriate days throughout the year. This is not a new BMP, but has been separated from the Cleanup Programs

from the previous permit for reporting and tracking purposes.

Measurable Goals/Evaluation – Continue to offer opportunities for Christmas tree and tree limb drop-offs. The location of each event and the number of participants will be tracked for inclusion in the annual report. If an event cannot be coordinated, this shall be noted in the Annual Report with an explanation.

Responsible Parties - Environmental Services; Utilities Services; Public Information Office; Keep Mansfield Beautiful Commission

Implementation Schedule -

Years 1-5- October-September – Continue activities from previous permit term.

BMP 1.15 – Contract Hauler Litter Crew

Description – As a part of the City’s Franchise Agreement with its contract hauler, that contractor is to provide a litter crew to remove litter from City rights of way 2 days per week. The crew is not bound to the City, but City staff can request particular areas to be addressed and communicates with the supervisor of the litter crew for areas where repeated illegal dumping is observed. This is not a new BMP, but has been separated from the Cleanup Programs from the previous permit for reporting and tracking purposes.

Measurable Goals/Evaluation – Continue to coordinate with the City’s contract hauler for the litter crew assignments and track the weight/volume of items removed for inclusion in the annual report.

Responsible Parties - Environmental Services;

Implementation Schedule -

Years 1-5- October-September – Continue activities from previous permit.

BMP 1.16 – Texas SmartScape Program and Regionally Developed Initiative - (B)

Description - The Texas SmartScape program was developed as a tool to provide solutions for homeowners and businesses to use low impact vegetation in their landscaped areas. The program is developed around the usage of native and adaptive plants. The plants use less water, and require fewer pesticides and herbicides to be applied in order to thrive. The City of Mansfield will create a program to promote usage of the Texas SmartScape tools and principles. City staff will evaluate the most effective and appropriate means to promote the usage of the Texas SmartScape tools and principles, and encourage the selection of native and adaptive vegetation for landscaped areas. Additionally, the City will participate in the Annual March is Texas SmartScape Month Regionally Developed Initiative. By encouraging the use of drought tolerant plants, it is anticipated less fertilizer will be used as well as less water. This has the potential to result in reducing the growth potential for bacteria within the City’s storm drain infrastructure.

Measurable Goals/Evaluation – Continue the program to promote the usage of the Texas SmartScape principles and document the types of promotional materials and activities in support of Texas SmartScape program. Document other relevant information as appropriate. Participate in

the Regionally Developed Initiative for Texas SmartScape by registering SmartScape outreach activities with the NCTCOG. Provide Texas SmartScape program implementation information to the NCTCOG for consolidation into regional report to be attached as an appendix to the City's Annual Report.

Responsible Parties - Utilities Services - Public Information Office; Parks; Keep Mansfield Beautiful Commission

Implementation Schedule -

Years 1 thru 5- October/March – Make available materials promoting usage of the Texas SmartScape tools and principles, highlight stormwater quality improvements from those using Texas SmartScape vegetation practices. Participate in the Texas SmartScape Regionally Developed Initiative.

BMP 1.17 – Household Hazardous Waste Collection Program - N

Description – The City is currently in the process of constructing a permanent HHW collection facility. Until such time as construction is completed, the City will continue to participate in the City of Fort Worth Environmental Collection Center's HHW program. Mansfield residents are able to take materials to the Fort Worth location for dropoff, and periodically a mobile collection event is hosted at Mansfield City Hall. Once construction is completed, residents will be able to drop their hazardous materials at the Mansfield location and mobile events will cease. Providing this service to residents is seen as the most effective way to prevent common household chemicals from being discharged into the environment or poured down the sink.

Measurable Goals/Evaluation – Part III Section B.1(b); B.2(a) – The City will continue to include the number of households that have participated in the HHW program. Once construction is completed, it should be possible to expand the reported items to include the weight of materials collected, what was recycled and what was sent off for disposal.

Responsible Parties - Environmental Services

Implementation Schedule –

Years 1-5- October-September – Continue to offer service for residents and update service options once facility construction is completed.

BMP 1.18 – Adopt a Street Program - N

Description – The City, through the Keep Mansfield Beautiful Commission, provides local businesses and dedicated/concerned residents the opportunity to adopt sections of certain road ways. Once adopted, the business or resident agrees to pick litter up from that stretch of roadway at least 3 times a year for 2 years. The City requests a report be turned in for each pick up to track the number of volunteers, volunteer hours and amount of material removed. To estimate amount of material removed, the City uses the KAB estimate of weight per bag. All clean up materials are provided by the City but must be checked out for each group.

Measurable Goals/Evaluation – Part III Section B.1(b) – Report the number of volunteers, volunteer hours, bags removed, and weight estimate with annual reports.

Responsible Parties - Environmental Services; Utilities Services

Implementation Schedule –

Years 1-5-March-November – Continue to offer program for businesses and residents, including supplies, and tracking progress of individual groups.

BMP 1.19 – Public Comment Input/Hotline – N(B)

Description – The City currently has several avenues to receive public comments. Public Hearings during the City Council meetings, citizen complaints/reports received by the City Secretary’s office, citizen complaints/reports received by the Public Works division and other avenues including web based opportunities. Relevant individuals will be notified that reports and complaints involving potential water quality issues will be routed to the appropriate person within the City’s organization to ensure that issues affecting the SWMP are addressed. This notification may include, but is not limited to, any of the following: phone messages, voicemail, email, interoffice memo, letter, or other forms of verifiable notification. The City may investigate the possibility of creating a Hotline number and/or website, or evaluate if an existing hotline or web reporting tool within other city departments exists that could be used and advertised.

Measurable Goals/Evaluation – Part III Section B.1(b)(1); B.2(c)(3); B.3(b)(6) - Implement a program that will notify relevant individuals that reports and complaints about potential water quality issues are routed to the appropriate person and then track those reports and complaints. Reports and complaints involving stormwater related issues will be tracked by the City. Information in the tracking will include the date of the report/complaint, address of complainant, address of problem, when complainant was contacted, and disposition of problem and other relevant information. Summary information will be included in the Annual Report.

Responsible Parties - Environmental Services; Various Other Departments

Implementation Schedule –

Years 1-5- October-September – Evaluate appropriate personnel to notify of need to include stormwater personnel on routing of public reports/complaints. Ensure notification of stormwater personnel takes place.

BMP 1.20 – Consumer Confidence Report – N(B)

Description – The City’s Utilities Services Department is required by TCEQ to prepare and deliver a Consumer Confidence Report to water users throughout the City. This report includes information about the quality of water delivered to the customers of the Bud Ervin Water Treatment Plant. In addition, the City has begun including information about source water protection, water conservation, and other items that increase awareness about preventing stormwater pollution. The City will continue to prepare CCRs as required by TCEQ and include messages related to water quantity conservation and/or quality protection.

Measurable Goals/Evaluation – Part III Section B.1(b)(1); B.2(c)(3); B.3(b)(6) – Complete and deliver Consumer Confidence Report to customers of Mansfield Water Treatment Plant. A copy of the CCR will be retained onsite for review.

Responsible Parties - Environmental Services; Various Other Departments

Implementation Schedule –

Years 1-5-May-July – Continue to develop CCR with appropriate information and deliver to Mansfield Water Treatment Plant customers.

2. Illicit Discharge Detection And Elimination

2.I. Overall Program

The City of Mansfield is committed to eliminating water pollution from illicit connections to the storm sewer system maintained by the City, as well as limiting the impact on surface water quality from accidents and spills. GIS layers of storm sewer features have been created, and are updated regularly. The City has developed a list of allowable non-stormwater discharges based on guidance from the TCEQ and other sources of information, as it is believed they do not pose a risk to the quality of the waterways in the area. The following BMPs are believed to be the most effective means of implementing an IDDE program in the City of Mansfield.

2.II. Illicit Discharge Detection and Elimination Best Management Practices

BMP 2.1 – Legal Authority Review – N(B)

Description - City staff will review existing ordinances and requirements to determine if any changes are necessary with regard to updated permits. The City first issued the Stormwater Quality Protection Ordinance in March 2008. This ordinance provided the City with the legal authority to implement the previous SWMP. The City intends to use one ordinance for IDDE and construction site enforcement. The existing ordinance contains language consistent with the Texas Health Code related to repairs of failing on-site sewage facilities. This language will be retained. The current ordinance includes provisions for penalties for non-compliance.

Measurable Goals/Evaluation – Part III. Section A.3;Section B.2(a);B.2(a)(1)e.;B.2(b); B.2(c)(5)(6);B.3(a)(b) - Review existing ordinances for any necessary changes. If changes are determined to be necessary, a draft update will be prepared and presented to Council for approval.

Responsible Parties - Environmental Services; Public Works; Utilities Services; Others

Implementation Schedule -

Years 1-2-July-September – Coordinate staff meetings to review legal authority and new permit requirements. Update ordinances as needed.

Years 3-5- October-September – Continue to enforcement ordinance as needed.

BMP 2.2 – Illicit Discharge Elimination Program – (B)

Description – The City of Mansfield participates in the NCTCOG IDDE Task Force Regionally Developed Initiative. During the previous permit term, this group developed and released an IDDE Field Investigation Guide that details steps for responding to a notification of potential illicit discharges. Included are examples of natural and abnormal discharges that help to identify when additional attention may be warranted. Additionally, there is information on steps to take to track the discharge back to a potential source. It is understood that once the discharge has been confirmed as illicit, and the source identified, the City will take the appropriate steps necessary to eliminate the discharge. These steps are detailed in the Stormwater Quality Protection Ordinance. The City currently uses the MyGov online system for tracking complaints and investigations into potential illicit discharges. The response time to complaints will be based on the perceived level of risk to human health and the environment from the description provided by the complainant. Follow up inspections to confirm elimination are already part of the process.

Measurable Goals/Evaluation – Part III. Section B.2(a,b,c,d) - Continue to use the Field Investigation Guide as the Standard Operating Procedures for Illicit Discharge Detection and Elimination and document the number of complaints investigated, those complaints determined to be permissible discharges, and the outcomes of discharges determined to be illicit in the Annual Report. Additionally, complaints related to sewage and septic issues will be reported separately. It should also be possible to use identify reports from field staff who attended the IDDE training for tracking purposes. Review and update/amend the Field Investigation Guide as needed.

Responsible Parties - Environmental Services

Implementation Schedule –

Years 1-5- October-September – Continue to use the Field Investigation as the basis when conducting investigations into possible illicit discharges, and the MyGov system for tracking complaints.

BMP 2.3 – Storm Sewer System Map Features

Description - The City is currently creating GIS layers for storm sewer system features using record drawings and as-built plans. The created storm sewer system features will be updated periodically. These updates will be accomplished with as-built plans and field verification, as available. The City currently possesses a GIS streams layer.

Measurable Goals/Evaluation – Part III Section B.2(c)(1) - City staff will make every effort to update storm sewer system features within 12 months from as-built plan submittals and GPS field verification when necessary.

Responsible Parties - Environmental Services; Geographic Information Systems

Implementation Schedule -

Years 1-5- October-September – As time and staff positions permit, field verify as many outfalls to waters of the U.S. as possible. Field verification may include any of the following means: using GPS technology to obtain latitude and longitude coordinates to be converted into a GIS layer; use GPS technology to directly create GIS layer information; use aerial photography to more accurately place and locate outfalls and inlets. Changes to stream locations, or the placing of streams into underground storm sewer systems shall be mapped as the information becomes available.

BMP 2.4 – Staff IDDE Training – N(B)

Description – The staff with the knowledge necessary to determine, trace and correct illicit discharges is limited. However, those staff that are mobile and in the field with the potential to spot possible discharges is much larger. The City will develop a training program to assist those staff positions with the potential to spot possible illicit discharges. The training will include materials to help identify possible discharges, as well as information on what to do when a suspect discharges has been identified. Staff will review existing training materials developed by NCTCOG and other sources, or create their own materials for this purpose.

Measurable Goals/Evaluation – Part II. Section B.2(c)(2) - Identify those staff positions that would benefit the IDDE program. Develop training materials and conduct training classes for those staff. Attendance records will be recorded to include date, topic and staff person for training classes.

Responsible Parties – Environmental Services; Public Works; Water Utilities; Others

Implementation Schedule -

Year 1-July-following September – Identify staff positions in those departments that would benefit from the IDDE program by attending the training. Develop training materials.

Years 2-5- October-September – Given that these staff members will be predominantly field staff, it is expected to take several training sessions for all of those staff to complete the training. Additionally, it is possible multiple training topics will need to be covered at separate sessions.

BMP 2.5 – Adjacent MS4 Notifications - N

Description – When staff have traced a suspected illicit discharge to the edge of our City limits, we will make all efforts to notify the proper person with the appropriate community of our findings and assist those individuals to best of our abilities in continuing to trace the suspected discharge to its source to verify if it is illicit or permissible. Consequently, when staff have been notified by an adjacent community they have traced a suspected discharge to their limits and it appears the source is located within our City, we will work with those individuals to best of everyone’s abilities to identify the source and eliminate the discharge if it is determined to be illicit.

Measurable Goals/Evaluation – Part III Section B.2(a)(3) – Maintain a list of appropriate contacts and update list as determined to be necessary. Make note in investigation report that complaint was from or to an adjacent community for tracking purposes.

Responsible Parties - Environmental Services

Implementation Schedule -

Year 2-December-January – Create list of adjacent community contacts or verify NCTCOG has updated list. Respond to investigations as appropriate and communicate with adjacent communities when needed.

Years 3-5- October-September – Continue to respond to investigations as appropriate and communicate with adjacent communities when needed.

BMP 2.6 – Sanitary Sewer Overflow Program – NB

Description – The Utilities Services Department has been implementing a Sanitary Sewer Overflow program for several years. This program consists of inspecting sewer lines where repetitive overflows have occurred, increased maintenance on problems lines, identifying line segments for replacement through Capital Improvement Projects, or parallel sewer lines, and other measures designed to reduce the number of overflows. When a reportable overflow has occurred, a report has been filed.

Measurable Goals/Evaluation – Part II Section D.4(b) – The problem line sections are not identified in the City’s GIS program. The inspection log of these sections is maintained by the Utilities Services Department. The number of inspections will be included in the Annual Report, as well as a count on the number of reportable sewer overflows.

Responsible Parties – Utility Services

Implementation Schedule -

Years 1-5- October-September – Continue to implement the City’s Sanitary Sewer Overflow Program.

BMP 2.7 – On-site sewage Facilities Program – NB

Description – The City currently relies on Tarrant County Public Health Department to review, inspect installation and provide assistance on failing septic systems. The City has existing ordinances requiring failing systems to be repaired/replaced in a timely manner. Over the permit term, the Environmental and Utilities Services Departments will develop a program to address OSSFs in a more comprehensive manner. It is unclear at this time what elements may be included in the program.

Measurable Goals/Evaluation – Part II Section D.4(b) – As the program is develop, the elements will be included in the Annual Report.

Responsible Parties – Environmental; Utility Services

Implementation Schedule -

Year 2-January-September – Review surrounding or similar community programs. This may include reviewing requirements of communities beyond the immediate area.

Year 3-December-September – Prepare draft OSSF program. The program may be a collection of policies, regulations, rules, brochures, fact sheets, inspections, or other items as deemed appropriate.

Years 4-5 – Implement OSSF program to assist owners of systems to understand maintenance needs/requirements of their systems, and other measures to assist in reducing the number of failing OSSFs.

BMP 2.8 – Industrial Pretreatment Program – N(B)

Description – The Utilities Services Department has been implementing an Industrial Pretreatment Program for years. Under this program, all commercial grease traps are inspected. Upon initial installation, the inspection frequency is monthly. As the operators of the traps prove the ability to lengthen the inspection frequency, it may occur less frequently. Work is currently under way to have the grease and grit traps added into the City’s GIS system. The industrial pretreatment program also inspects businesses with other types of discharges into the public sewer system. There have been no non-compliance issues with the City’s program.

Measurable Goals/Evaluation – Part II Section D.4(b) – The number of inspections completed as part of the Industrial Pretreatment Program will be included in the Annual Report. Any non-compliance issues that arise from the inspection program will be included.

Responsible Parties – Utility Services

Implementation Schedule -

Years 1-5- October-September – Continue to implement the City’s Industrial Pretreatment Program.

BMP 2.9 – Lift Station Maintenance Program – NB

Description – The Utilities Services Department has been implementing a Lift Station Inspection and Maintenance program for public lift stations for years. Through this program, all public lift stations in the City have been inspected on an annual basis. In addition, as lift station pumps have come up for replacement or significant repairs, the pumps have been replaced with those that offer remote notification of failures, stoppages or blockages to facilitate a response before a significant failure occurs. As new capital improvement projects allow, lift stations are removed as the sewer system is tied into gravity feed systems. There are currently 20 public lift stations. The City is not responsible for private owned and operated lift stations or pumps.

Measurable Goals/Evaluation – Part II Section D.4(b) – The number of lift station inspections, pumps replaced, upgraded or otherwise altered and failures will be included in the Annual Report.

Responsible Parties – Utility Services

Implementation Schedule -

Years 1-5- October-September – Continue to implement the City’s Lift Station Maintenance Program.

BMP 2.10 – Liquid Waste Hauler Program – NB

Description – The Utilities Services Department has been implementing a Liquid Waste hauler Program from years. Under this program, liquid waste haulers operating in city limits are required to apply for a license/permit to operate. As part of the application process, the vehicles proposed to be used are inspected by City staff to verify operational suitability.

Measurable Goals/Evaluation – Part II Section D.4(b) – The number of liquid waste hauler permits/licenses issue will be included in the Annual Report.

Responsible Parties – Utility Services

Implementation Schedule -

Years 1-5- October-September – Continue to implement the City’s Liquid Waste Hauler Program.

3. Construction Site Stormwater Runoff Control

3.I. Overall Program

Currently the City of Mansfield implements an erosion control program for construction sites. The basis for current requirements comes from the City's Stormwater Quality Protection Ordinance. The ordinance sets forth the requirement for property owners, developers, contractors, etc. to control erosion from their site. The ordinance provides minimum performance standards and notice and penalty provisions for noncompliance. Per the ordinance, the City requires all applicants for development of land to submit an erosion and sedimentation control plan for approval prior to the commencement of construction. The City provides enforcement of the ordinance through a plan review and site inspection program that requires operators to design, install, maintain and correct erosion control measures. Any future changes to the City Ordinances regarding erosion and sediment protection shall not alter these requirements. City staff members are made available for pre-construction and development review committee meetings to discuss City expectations, regulations, and requirements.

3.II. Construction Site Stormwater Runoff Control Selected Best Management Practices

BMP 3.1 – Annual Builders/Developers Workshop

Description - Bringing representatives from the construction community together for question/answer sessions, as well as other education topic presentations is a useful way of making information available to this important sector, which includes home builders, engineering firms, general contractors, developers and others. City staff shall evaluate the need for a builders/developers workshop, and if one should be deemed useful, coordinate the meeting. Topics covered may include current Construction General Permit updates/requirements, current best management practices, preparing a Stormwater Pollution Prevention Plan (SWPPP) and other information deemed useful to the construction industry.

Measurable Goals/Evaluation – Part III Section B 3(b) - Determine the need for and conduct a workshop for the construction industry. Record the number of attendees, date and time of workshops for the Annual Report. Along with this information will be included a flyer, brochure or other item advertising the event, a list of speakers with a brief biography of qualifications, and a list of topics.

Responsible Party - Environmental Services

Implementation Schedule -

Years 1-5 – Determine need, if any, to host a workshop for construction personnel. Determine topics to be covered, coordinate speakers, and other aspects of hosting the event. Host event.

BMP 3.2 – Construction Erosion and Sediment Control Ordinance

Description - The existing Stormwater Quality Protection Ordinance provides the legal authority for enforcement actions under the City's Stormwater Management Plan. The City shall require the submittal of an erosion control plan to be reviewed and approved as part of the permit review on all construction projects, excluding single-lot residential permit submittals. In addition, the City shall require the installation, inspection and maintenance of erosion and sediment controls, litter control, concrete waste management, and sanitary waste management for all commercial construction sites,

regardless of size, and residential sites that disturb more than one acre or are part of a larger common plan of development that disturbs more than one acre.

Measurable Goals/Evaluation – Part III Section B.3(a,b) – The City has adopted the Stormwater Quality Protection Ordinance. The construction activities portion of the Ordinance requires proper installation, maintenance and removal of control measures as described in the TCEQ Construction permit requirements. The City’s policy toward enforcement of the construction activities portion of the Stormwater Quality Protection ordinance is to require all commercial construction sites to comply with all portions of the ordinance, regardless of the size of the construction project. Residential construction activities shall be required to comply with the ordinance if the project will disturb more than 1 acre, or is part of a larger common plan of development that will disturb more than 1 acre. The enforcement options portion of the Ordinance defines enforcement escalation procedures designed to ensure compliance with City Ordinance and State Permit requirements.

Responsible Parties - Environmental Services; Public Works; Legal Office

Implementation Schedule -

Year 1-September – The requirements in the existing ordinance will be reviewed in light of the TCEQ CGP which became effective March 5, 2013, and if needed changes will be made and adopted by Council by Dec 31, 2014.

Years 2-5- October-September – Review changes in legislation, technology and practices to ensure ordinance remains currently applicable.

BMP 3.3 – Inspection and Enforcement Program

Description - The City’s inspection and enforcement program may not be used in place of regularly scheduled inspections for construction activities as required by TCEQ permit TXR#150000. The City of Mansfield will review and revise its existing inspection and enforcement program for construction site control measures. City staff will develop inspection and enforcement protocols for the City’s construction site inspection program with the intent to ensure compliance with City Ordinances and stormwater general practices. City inspectors involved with construction site inspections will be trained accordingly. The same policy as applied to the Stormwater Quality Protection Ordinance shall be applied to the inspection program in that all commercial construction projects shall be subject to the inspection and enforcement program and all residential construction projects that disturb more than one acre or are part of a larger common plan of development that will disturb more than 1 acre. Construction site operators will be required to correct any deficiencies in stormwater management measures in accordance with City Ordinance. Inspection duties shall be spread upon different departments, depending on what type of construction is taking place as determined by the City’s erosion and sediment control inspection policy. Additionally, the inspector is currently supplying a report, either printed or electronically, to the appropriate person who is responsible for the site.

Measurable Goals/Evaluation – Part III Section B.3(b)(5) – Inspections resulting in enforcement actions shall be generated in the Environmental Services department. However, inspection duties shall be spread upon several departments within the City, the other departments shall assist the Environmental Services department providing notification when gross deficiencies are noticed. The Stormwater Inspector(s) shall keep a log or record of all inspections, noting any deficiencies identified, a time frame for correcting those deficiencies and any enforcement actions taken in order to achieve

compliance. It is the goal of the City for this information to be maintained electronically and submitted as part of the Annual Report.

Responsible Parties – Environmental Service; Public Works; Development Services

Implementation Schedule -

Year 1 - May-December – An erosion and sediment protection policy is currently in place, but will be codified in written procedures and completed by Dec 31, 2014.

Years 2-5 - October-September – Continue inspections of construction sites, and review inspections materials and procedures for efficiency and thoroughness, edit as needed. Evaluate inspection schedule for appropriateness, modify as needed. Continue activities.

BMP 3.4 – Erosion Control Plan Building Permit Review

Description - The City currently requires erosion control plans be developed for all commercial and industrial construction projects, regardless of the size of the project. In addition, all residential subdivision developments are required to submit an erosion control plan as well when these projects typically disturb more than 5 acres, or are parts of a larger common plan of development that will disturb more than 5 acres. These plans are reviewed for use of appropriate BMPs on the site to reduce to the extent practicable the potential for polluted runoff from exiting the construction site during the active phase of construction. There is no City requirement that single-lot residential single-family permits submit an erosion control plan with their permits. This may be added at a later time if it is determined to be needed. The current City plan review policy also requires a copy of the Notice of Intent or Construction Site Notice for the site must be submitted to the City prior to permit approval. The City will continue to monitor the erosion control plan review process as is, as well as the State permit paperwork requirements as this aids in improving the quality of erosion and sediment control practices and raises awareness about stormwater issues.

Measurable Goals/Evaluation – Part III Section B.3(b)(4) – The City of Mansfield will continue the current erosion control plan review process, consider future additional plan or permit review requirements, and document the number of permits reviewed for a given permit year in the appropriate Annual Report.

Responsible Parties - Environmental Services

Implementation Schedule -

Years 1-5- October-September – Continue activities as defined in current policy. Consider any expansions or changes as deemed appropriate.

BMP 3.5 – Public Comments Regarding Construction Sites

Description - The City is committed to responding quickly and appropriately to comments from residents. Complaints related to construction erosion control situations will be handled in the MyGOV tracking system or addressed by the Stormwater Inspector. This information shall be used to trigger a complaint inspection, which shall be conducted in a reasonable amount of time, based on the information collected. If contact information is provided, and request has been made, the resident shall be contacted regarding the disposition of the information provided.

Measurable Goals/Evaluation – Part III Section B.3(b)(6) – Continue to implement the use of appropriate tracking procedures to respond to public complaints, document the number of calls, their nature, location, and any associated construction industry businesses to be included as part of the Annual Report as well as the disposition of the findings.

Responsible Parties – Environmental Services

Implementation Schedule –

Years 1-5- October-September – As policies are in place, the City shall simply to implement its current program. If deemed appropriate or necessary, advertisement or other awareness activities may be conducted in order to increase awareness among residents of the ability to identify the City of potential problems on construction sites.

BMP 3.6 – MS4 Staff Training Program - N

Description – The City is committed to using highly trained individuals to complete portions of this SWMP. The City currently has one field inspector who is certified as a CESSWI. Additionally the City is seeking to have a staff position certified as a CPESC. This position is the primary staff responsible for permit review, and enforcement of the construction portions of the Stormwater Quality Protection Ordinance. Other staff may be trained in inspecting stormwater BMPs, site practices, and other topics that may help in reducing polluted runoff from construction sites as appropriate.

Measurable Goals/Evaluation – Part III Section B.3(b)(7) – Continue to maintain certified personnel on staff to review erosion control plans and enforcement of the ordinance. Conducting other training as needed to educated additional staff to support the goals of the SWMP.

Responsible Parties - Stormwater-Environmental Services

Implementation Schedule –

Years 2-5- October-September – Continue to provide professional development of appropriate staff, conduct other training as needed.

BMP 3.5 – Construction Site Inventory - N

Description – Develop an electronic or paper list of current construction projects. The list is likely to include approximate start date, date of last inspection, date of completion of project, contact information for site supervisor, and other information as needed.

Measurable Goals/Evaluation – Part III Section B.3(c) – Create inventory list of construction sites and maintain as needed.

Responsible Parties – Environmental Services

Implementation Schedule –

Years 2-5- October-September – Create inventory list, populate with data and maintain as needed.

4. Post Construction Stormwater Management For New Development/ Redevelopment

4.I. Regulatory Requirement

The City of Mansfield has requirements for new development and redevelopment project designs that have the ability to improve stormwater quality. Landscaping, parkland dedication, buffer yard and setback, and erosion and sediment control requirements all assist in improving water quality. The City also has a Natural Resources Preservation Ordinance (or Tree Preservation) to encourage preservation of natural areas. For all major streams in its jurisdiction, the City of Mansfield has completed Master Drainage Plans. These MDPs provide ultimate developed hydrologic conditions floodplain and floodway delineation. These ultimate developed floodways are used by the City to control development as its official floodway delineations. Development within an identified floodway is prohibited. For development along unstudied streams, the Floodplain Development Ordinance requires a study to define the development limits. These limits are defined by the ultimate 100-year water surface elevation and floodway delineations of allowable encroachment as defined by the Engineering Department. The defined limits are platted as Drainage Easement and required to be maintained by the owner. With this policy related to floodplains the City promotes leaving stream buffers intact and undisturbed. Pre-development hydrology is also required in select locations, where the City is aware of existing drainage problems, especially downstream flooding or other impacts.

4.II. Post Construction Stormwater Management for New Development/Redevelopment Best Management Practices

BMP 4.1 – Drainage Design Criteria Manual – (B)

Description - The City adopted the iSWM Manual of 2006 as its Storm Water Management Design Manual in February 2010 to be used in designing stormwater management measures. The City developed specific local criteria explaining which options should be used when designing new developments within Mansfield. The City updated the SWMDM effective July 1, 2014 to require new developments and redevelopments to implement site design or post construction water quality control measures. The City will continue to build upon the knowledge gained to this point, evaluate requirements in place in communities in the area, and develop additional requirements when and where appropriate. There is a knowledge gap in the region on the development side of what appropriate measures are or can be, how expensive the installation and maintenance of those measures are, and how they can be used most effectively in site design. Therefore, the new post-construction measures development criteria are subjective in nature without meeting a specified water quality goal. The enforcement mechanism in this program will be that without appropriate measures, a development permit may not be approved, or if not installed the project may never receive a Certification of Occupancy.

Measurable Goals/Evaluation – Part III. Section B(a;b) - The City will continue to review developments for compliance with the City’s effective Storm Water Management Design Manual. Updates to the Manual will be made as more information is collected and staff knowledge satisfies a minimum level of comfort with post control measures.

Responsible Parties - Environmental Services; Public Works; Engineering; Public Information Office

Implementation Schedule -

Year 1-July-September – Interview appropriate staff of surrounding Phase I and II communities to gain a level of understanding about what regulations are in place and how the programs are in fact being implemented. Continue to review new development and redevelopment plans for compliance with Storm Water Management Design Manual.

Year 2-December-September – Review appropriate legal concerns regarding specifications to require maintenance and operations plans to be filed with land records of developments. Continue to review new development and redevelopment plans for compliance with Storm Water Management Design Manual.

Year 3-October-September – Draft language for implementing requirement to file maintenance and operation plans with land records. Continue to review new development and redevelopment plans for compliance with Storm Water Management Design Manual.

Years 4-5- October-September – Begin requirement for post construction water quality measures to have maintenance and operations plans filed with land records. Continue to review new development and redevelopment plans for compliance with Storm Water Management Design Manual.

BMP 4.2 – Other Ordinances and Regulations – N(B)

Description – The Federal Emergency Management Agency requires municipalities to enact floodplain damage prevention regulations to offer floodplain insurance to residents near or in the floodplain. Given that floodplains are located near major waterways, by restricting development within these areas the City is creating a positive impact on water quality within those waterways. The City will continue to enforce its flood damage prevention ordinance and shall update the ordinance as required by Federal regulations. In addition to floodplain protection, the City has ordinances that require new developments to preserve quality tree canopy. The Subdivision ordinance set rules for building setbacks, parking lot island requirements, landscape buffers, and parkland dedication for residential developments. All of these areas combined will have a positive impact on post development water quality, but the impact is not easily measurable.

Measurable Goals/Evaluation – The City will continue to implement and enforce the additional rules and regulations regarding development within the City. A copy of these rules and regulations will be available for review. Additionally, the City makes these ordinances available on the City’s website.

Responsible Parties – Various

Implementation Schedule –

Years 1-5- October-September – This BMP is currently in place. Updates as needed and required shall be made as needed.

5. Pollution Prevention/Good Housekeeping For Municipal Operations

5.I. Overall Program

The overall goal of the Pollution Prevention/Good Housekeeping program for the City of Mansfield is to reduce the risk of water pollution using proper maintenance and operation procedures, training City staff for awareness about the hazards, and internal audits to track the effectiveness of the program. The City does own and operate a water treatment plant; the only municipally owned industrial activity subject to TPDES industrial activity regulations known at this time. Training materials developed by the North Central Texas Council of Governments, or other materials, will be used to develop targeted training programs for City staff with responsibilities involving potential water pollution or protection of water quality. Control measures managed by the City will be properly installed and maintained. A GIS layer will be developed identifying the location and type of control measure, and will be used to assist in the maintenance of the control measures. Any waste generated by City activities, particularly dredge materials, accumulated sediments and floatables, will be disposed of as provided by the appropriate regulations.

5.II. Pollution Prevention/Good Housekeeping Best Management Practices

BMP 5.1 – Pollution Prevention Training for Municipal O&M Staff

Description - The City of Mansfield has been a participating member in the P2 Task Force RDI for the NCTCOG for the past few years. The P2 Task Force has produced a series of training modules and videos directed at pollution prevention for municipal activities. Modules and videos applicable to City needs will be used to develop City staff stormwater pollution prevention training. Other materials developed by the City or other sources may supplement the developed modules and videos. A properly trained staff is less likely to engage in activities that pose a risk to the quality of our local waterways.

Measurable Goals/Evaluation – Part III Section B.5(b)(2) – City staff positions with responsibilities that could result in stormwater quality impairments or improvements will be identified to determine applicable modules and videos to be used in creating the City stormwater pollution prevention-training program. The selected modules and videos will be evaluated for completeness; additional items will be created or used from other sources to provide a complete and comprehensive training program for identified staff positions. The number of employees attending training and a summary of their responsibilities will be included in the annual report for the permit year. Refresher training activities will be conducted as needed to address changes in technology, practices, policies, procedures or regulations and newly hired employees.

Responsible Parties - Environmental Services; Human Resources; Attending Departments

Implementation Schedule -

Year 1-September – Complete facility inspections and audits to include identifying those positions targeted for training. Also review training modules and videos with those positions in mind.

Year 2-December-March – Conduct training for at least 30% of staff positions with greatest potential to degrade or improve stormwater quality. Use attendee comments to refine training materials and delivery.

Year 3-December-March – Continue training sessions for other staff positions and material development as needed.

Years 4-5-December-March – Continue training sessions for other staff positions and evaluate training program to identify positions in need of refresher training, if any. Develop new training materials as needed, and conduct new training sessions as deemed necessary.

BMP 5.2 - Waste Material Disposal Regulation Review and Oversight - N

Description – The City will make every effort to ensure that any work performed by, or on behalf of, the City shall follow proper disposal requirements as associated to dredge material, accumulated sediments and floatable materials. The City shall designate a staff position to review the applicable regulations as outlined in Part III Section B.5(b)(3) to review the current operations for compliance with those rules and to ensure no violations have been made. If discovery of possible issues with compliance arise, the designated staff position will bring that information to the appropriate department head for resolution.

Measurable Goals/Evaluation – Part III Section B.5(b)(3) – The City shall review the applicable regulations and evaluate the current activities for compliance related to properly disposing of dredge materials, accumulated sediments, and floatable materials and make a determination on compliance with the proper disposal of these materials throughout the term of this permit.

Responsible Parties –Environmental Services

Implementation Schedule –

Year 1-July – Review applicable regulations to become familiar with requirements. Conduct departmental and facility audits while considering those rules.

Year 2-October – Make recommendations to appropriate department heads related to any possible compliance issues related to the disposal of materials from normal operations.

Years 3-5- October-September – Continue to advise department heads when questionable issues arise, or changes to State laws passed.

BMP 5.3 – Contractor Requirements and Oversight - N

Description – The City will review the language contained in standard contracts that may affect water quality, as they come up for renewal. If needed, language will be added to the contracts to require compliance with good housekeeping practices, standard operating procedures or other control measures to attempt to ensure that municipal contractors are not contributing pollutants to the MS4.

Measurable Goals/Evaluation – Part III Section B.5(b)(4) – The City shall review the applicable contracts as they come up for renewal over the course of the permit. When appropriate, contract language will be added to require the contractor to comply with good housekeeping procedures, standard operating procedures or other control measures.

Responsible Parties – Environmental Services; Various Other Departments

Implementation Schedule –

Years 2-5- October-September – Review applicable contracts and add language where needed. Provide appropriate oversight to contractors to verify compliance with contract.

BMP 5.4 – Pollution Prevention Audit for Municipal O&M Activities

Description - Several municipal activities can have an impact on stormwater quality. A list of activities with a potential to affect stormwater quality will be created, as well as a list of staff positions with oversight or responsibility of those activities. Activities that have a positive effect on stormwater quality will be encouraged, and activities with a potential to degrade stormwater quality will be evaluated and, when possible, modified to ensure all practical preventive measures are being followed to prevent pollutants from entering local waterways. The identification of activities posing a risk to water quality, and steps to be taken to reduce the risk will benefit the quality of our local waterways. Identified potential pollutants of concern for each activity will be included in the list. There are currently no pollution prevention measures installed at any City owned facilities. However, when such measures are installed, an appropriate inspection and maintenance program will be developed.

Measurable Goals/Evaluation – Part III Section B.5(5) – An assessment of current activities will be conducted in order to identify positive and negative water quality activities and behaviors. The results of the audit will be used in tailoring the pollution prevention training materials needed in BMP 5.1 and in developing appropriate good housekeeping practices, SOPs or other control measures. It is the intention of the City to develop these SOPs in conjunction with other communities through the NCTCOG P2 Task Force. If this becomes impractical/infeasible, the City will move forward with developing their own SOPs. The number of departments assessed will be included in the annual report.

Responsible Parties - Environmental Services; Various Other Departments

Implementation Schedule -

Years 1-2- October-September – Conduct audit of activities and current prevention practices. Create list of activities with potential to affect water quality and develop list of pollutants of concern.

Years 3-5- October-September – Develop oral or written good housekeeping practices, SOPs or other control measures and train appropriate staff on following of measures to reduce potential for pollution to the extent practical. It is anticipated that SOP development will be staged for different operations over time.

BMP 5.5 – Structural Control Maintenance

Description – The results of the previous permit for this control measure was a finding of no water quality control measures. The City shall continue to monitor new facility construction for the inclusion of water quality control measures and when measures requiring maintenance are installed an inspection program shall be developed and the results of inspections shall be used to determine maintenance needs. Should inspections be unfeasible, the date of installation shall be used to estimate when maintenance most likely will be needed.

Measurable Goals/Evaluation – Part III Section B.5(b)(6) – The City shall continue to monitor new municipal facility construction and when needed add water quality control measures to a database, list

or other inventory/tracking system for use in an inspection and maintenance program. If feasible, a stormwater control structure inspection program shall be developed. The list of devices added, inspection program schedule, and any associated dates shall be included in the Annual Report.

Responsible Parties –Environmental Services; Engineering

Implementation Schedule –

Years 1-5- October-September – Continue to monitor new municipal facility construction for inclusion of water quality control measures and update inventory as appropriate.

BMP 5.6 – Catch Basin Cleaning and Street Sweeping – (B)

Description - Removing debris using Street Sweepers helps to prevent the substances contained in the debris from entering the storm sewer system. The City of Mansfield is committed to keeping pollutants out of the storm drain system and will continue to implement a street sweeping program at an interval determined to be most effective. Additionally, catch basins that become blocked by various materials have the tendency to build up leaves, store water and present other conditions favorable to bacteria growth and development. As the City becomes aware of a blocked catch basin, it will be scheduled to be cleaned in a timely manner.

Measurable Goals/Evaluation – Part III Section B.(c)(1,2) – Continue implementing street sweeping activities document areas of where street sweeping activities occurred. Record weight of debris removed, if possible, or linear distance if not. Record number of inlets cleaned or cleared of debris and include in annual report.

Responsible Parties – Environmental Services; Street Maintenance; Utilities Services

Implementation Schedule -

Years 1-5- October-September – The City currently contracts to have some City streets swept and will continue to provide the service at appropriate intervals throughout the permit term. Blocked catch basins are identified and cleaned on an as noted basis.

BMP 5.7 – Potential Problem Area Identification – N(B)

Description – A GIS layer of potential problem areas was created during the first permit term. Analysis of problem land use categories, business categories, and sewage system areas was performed to identify stormwater outfalls that have a higher likelihood to develop illicit discharge connections to the storm sewer system, i.e. areas converted from septic to sanitary sewer and areas with a history of illegal dumping. Maintaining this GIS feature will continue to assist the City in focusing efforts in areas with the highest rate of return potential. Areas may be added to the Potential Problem Area GIS layer if monitoring activities show a history of pollutant presence

Measurable Goals/Evaluation – Part III Section B.5(c)(1)b – Maintain the GIS layers and maps based on business types, knowledge of recurring SSOs, illegal dumping and similar activities, or other information. Focus drive-by monitoring on these areas.

Responsible Parties - Environmental Services

Implementation Schedule -

Years 1-5- October-September – Maintain GIS feature, update as needed, and continue heightened focus on potential problem areas in attempt to detect issues before they become significant problems.

BMP 5.8 – Municipal Facility Program - N

Description – The City currently has a GIS database of all existing municipal facilities, and has a process for updating the layer when new facilities are completed. This will continue to be followed during the permit term. In addition to the mapping component, a detailed assessment and inspection program will be developed for the high priority facilities as identified in TXR04000 Part III Section B.5.b. Assessment and inspection reports will be kept by the City showing the results and any recommendations for reducing the potential for a discharge shall be made available to the proper department with oversight of the facility. For those facilities with normal operations demonstrating a potential to discharge a pollutant, Standard Operating Procedures will be developed and the staff trained, to reduce to the maximum extent practicable the possibility of a discharge. When necessary, a recommendation for a specific, permanent best management practice to be installed may be made.

Measurable Goals/Evaluation – Part III Section B.5(b)(1);(c)(4,5,6,7) - The City will continue to maintain and update as necessary a GIS feature for municipal facilities/properties. An assessment and inspection program will be developed for appropriate City facilities. An assessment will be conducted for all facilities, the findings contained in a report, and that information passed on to the department with oversight of the department. For those high priority facilities identified in the assessment an inspection program and SOPs may be developed with training. It is the intention of the City to develop these SOPs in conjunction with other communities through the NCTCOG P2 Task Force. If this becomes impractical/infeasible, the City will move forward with developing their own SOPs. The City will include the number of assessments/inspections completed in the Annual Report for that year. Additionally, the number of staff trained will be included when appropriate.

Responsible Parties - Environmental Services; Various Other Departments

Implementation Schedule –

Year 1-September – Complete assessments of City facilities, identify those high priority facilities which require an SOP. Findings in the assessment reports will be returned to the department with oversight of the facility.

Years 2-5- October-September – It is anticipated that SOP development will be staged for different operations over time. Evaluate facilities and operations for the need of a permanent best management practice. Install BMPs as feasible. Conduct inspections of high priority facilities and train staff on SOPs.

7. Authorization for Municipal Construction Activities

7.I. Overall Program

The overall goal of the Municipal Construction Activities program for the City of Mansfield is to reduce the risk of water pollution using proper construction best management practices, review of construction document erosion control plans, and developing contractual controls for work performed by outside parties. The City has been requiring all construction projects, including City facility and capital improvement projects, to submit an erosion control plan for review by City staff. Additionally, the City does require the use of best management practices to control construction wastes through the contracts the City enters for work performed by outside parties. The purpose of this program is to identify those activities explicitly and streamline the City's permit submission process. The City is implementing the SWMP for the entire limits, to include this minimum control measure.

7.II. Municipal Construction Activities Best Management Practices

BMP 7.1 – Erosion Control Plan Review

Description - City staff requires erosion control plans to be submitted for all capital improvement and other City construction. These plans are reviewed by staff knowledgeable about erosion and sediment control devices and with experience of how these devices perform in the field. Site topography, layout of storm sewer system, adjacent open water bodies, and other pertinent site information is taken into consideration in the review process as well as indicated control measures. Control measures may be required to be changed by City staff. The erosion control plan generally becomes the site map used by outside parties in the Stormwater Pollution Prevention Plan. It is the responsibility of the project manager to make the plans available for review. The City only reviews the plans as submitted by the City's contractor for the project. It is the contractor's responsibility to prepare the plans.

Measurable Goals/Evaluation – Document comments related to review of erosion control plan. Report number of plans reviewed in annual report.

Responsible Parties - Environmental Services;

Implementation Schedule -

Years 1 - 5- October-September – Continue to review and comment on erosion control plans and ensure that comments are implemented in the field through the inspection program.

BMP 7.2 – Municipal Construction Site Inspections

Description - City staff trained in performing stormwater inspections at construction sites will inspect construction activities related to municipal construction projects at the same frequency other construction projects are inspected. Additionally, other inspectors that will present at various times during the course of construction have been provided information on stormwater inspections.

Measurable Goals/Evaluation – Continue to use inspection checklist, and inspection and enforcement standard operating procedures for conducting stormwater inspections. Use checklist and SOP during inspection of municipal construction projects. Report number of inspections performed of municipal construction activities. Make available inspection checklist if asked by permitting authority.

Responsible Parties - Environmental Services; Engineering

Implementation Schedule -

Years 1-5- October-September – Continue to use inspection checklist and SOP.

BMP 7.3 – Stormwater Pollution Prevention Plans

Description - City staff requires Stormwater Pollution Prevention Plans (SWPPPs) be developed for all municipal construction activities that disturb one acre of land area or more. Prior to construction projects beginning, the SWPPP is reviewed for completeness by City staff, and comments may be made to address any identified deficiencies. After project approval, SWPPPs may be reviewed by City inspectors to ensure it has been updated as needed and site conditions are reflected appropriately. Generally, the City is not the operator with day to day operational control of the construction project site, and certification statement to that effect are included in the SWPPP signed and dated by both the City's and Contractor's representatives. Therefore, the City relies heavily upon its selected contractor to perform the updating tasks of SWPPPs related to municipal construction projects. Signed copies of the Contractor's NOI, or other evidence of State authorization for the Contractor for the appropriate project, will be included with the SWPPP for City review. Approval of the SWPPP is required prior to construction beginning.

Measurable Goals/Evaluation – Document number of approved SWPPPs for year in annual report.

Responsible Parties - Environmental Services;

Implementation Schedule -

Years 1-5- October-September – Continue to review and comment on SWPPPs.

APPENDIX A
Pollution Prevention Staff Positions Training

A list of staff positions whose duties or activities may affect water quality will be developed during the Pollution Prevention Audit for O&M Staff, BMP 5.4.

Public Works Dept:

Environmental Manager – 1

Public Works Director – 1

City Engineer – 1

Streets Supervisor – 1

Superintendent – 1

Operations Supervisor – 1

Crew Chief – 3

Technician – 4

Tradesman – 3

Parks Dept:

APPENDIX B
Implementation Schedule Summary

A table of the implementation timeline shall be developed as part of the first implementation year activities.

APPENDIX C
Regional Stormwater Contacts

The following is a brief list of adjacent agency contacts. This list can be used to help assist in the implementation of the City's IDDE program, for coordinating mutual aid and assistance agreements and other coordinating activities that will need to be performed across jurisdictional boundaries.

City of Arlington

Bill Brown 817-459-6567
Storm Water Executive Manager bill.brown@arlingtontx.gov

City of Grand Prairie

Cindy Mendez 972-237-8225
Water Quality Manager cmendez@gptx.org

Echo Rexroad 972-237-8082
Environmental Specialist erexroad@gptx.org

Tarrant County

Robert Berndt 817-884-2634
Environmental Specialist rberndt@tarrantcounty.com

Becca Grassl-Peterson 817-321-4986
Public Health Specialist

Texas Dept of Transportation – Ft. Worth Office

Alvin Meyer 817-370-3533
Engineer Technician ameyer@dot.state.tx.us

While the City does share boundaries with Johnson and Ellis counties, neither of these counties have urbanized areas near Mansfield and therefore their contact information has not been included in the above list. As these areas develop and more concentrated population areas move into these fringes, the City shall add contact information.

It is not implied that this list is a complete listing of all agencies, personnel, positions or contacts that will be needed in the process of implementing the City's SWMP. This is a summary list that will help in communicating with outside agencies and other entities with MS4 responsibilities, if or when a situation develops that makes communication necessary.