



# STORM WATER ANNUAL REPORT

TPDES Storm Water Permit # TXR040108

Third Permit Year Annual Report

August 13, 2009 - August 12, 2010

City of McKinney  
Engineering Department  
[www.mckinneytexas.org](http://www.mckinneytexas.org)



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**City of McKinney  
Storm Water Management Program**

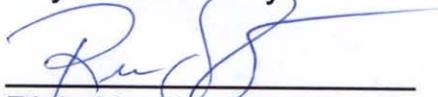
**Third Annual Report, August 13, 2009 – August 12, 2010**

**Certification Statement**

In accordance with 30 TAC.305.128

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

City of McKinney

  
\_\_\_\_\_  
Rick Chaffin, Interim City Manager

11-9-10

\_\_\_\_\_  
Date

RICK CHAFFIN  
(Name Printed)

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November 10, 2010

*Unique by nature.*  
Jaya Zyman-Ponebshek, Team Leader  
Texas Commission on Environmental Quality  
Storm Water & Pretreatment Team; MC – 148  
P.O. Box 13087  
Austin, Texas 78711-3087

**Re: Phase II MS4 Annual Report Transmittal for City of McKinney  
TPDES Permit Number TXR040108**

Dear Ms. Zyman-Ponebshek:

This letter serves to transmit the Third Year Annual Report for the Texas Pollutant Discharge Elimination System (TPDES) Small Municipal Separate Storm Sewer System (MS4) General Permit, Authorization Number TXR040108 compliance status for the City of McKinney.

This annual report also includes:

- (a) The status of compliance with permit conditions, an assessment of the appropriateness of best management practices (BMPs), a description of progress towards reducing the discharge of pollutants to the maximum extent practicable (MEP), the measurable goals for each of the minimum control measures (MCM), and an evaluation of the program's progress;
- (b) If applicable, the status of any control measures implemented by the permittee during the permit year;
- (c) A list of any minimum control measures initiated before permit issuance;
- (d) A summary of any information (including monitoring data) collected and analyzed during the permit year that was used to evaluate reductions in the discharge of pollutants;
- (e) A summary of the storm water activities the MS4 operator plans to undertake during the next permit year;
- (f) Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements;
- (g) The number of municipal construction activities authorized under this general permit and the total number of acres disturbed;
- (h) The number of non-municipal construction activities that occurred within the jurisdiction of the permittee (as noticed to the permittee by the construction operators); and
- (i) If applicable, notification that the MS4 operator is relying on another government entity to satisfy some of its permit obligations.

**CITY OF MCKINNEY**

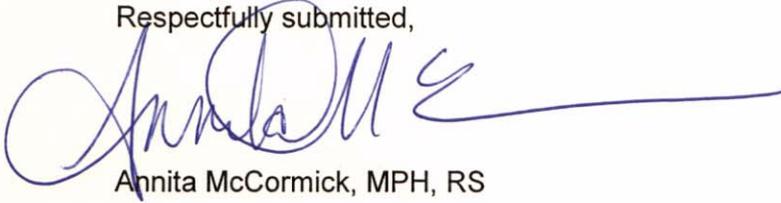
P.O. Box 517 • McKinney, Texas 75070 • Metro 972-562-6080

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As required by the general permit, a copy of this submittal has also been mailed to the TCEQ's Region 4 office in Fort Worth, Texas.

If you have any questions or additional information is required, please contact me at (972) 547-7579.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Annita McCormick", with a long horizontal flourish extending to the right.

Annita McCormick, MPH, RS

Xc: Texas Commission on Environmental Quality  
Region 4, Dallas/Ft. Worth  
Mr. Tony Walker, Regional Director  
2309 Gravel Dr.  
Fort Worth, TX 76118-6951

## **A. Overview**

### **1. General information**

Permit No. TXR040108

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Annual Report Period: August 13, 2009 – August 12, 2010

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Name of MS4 / Permittee: City of McKinney

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Contact Person: Annita McCormick, MPH, RS

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Title: Storm Water Management Specialist

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Telephone #: 972-547-7579      Email: amccormi@mckinneytexas.org

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Mailing Address: PO Box 517, McKinney, TX 75070

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On August 13, 2007, the Texas Commission on Environmental Quality (TCEQ) issued the TPDES General Permit TXR040000 (GP) authorizing the discharge of storm water to surface water in the state from small municipal separate storm sewer systems (MS4s). TCEQ's preliminary decision to approve coverage of the City of McKinney's MS4 under TPDES Permit No. TXR040108 was issued on October 1, 2008. In accordance with the permit requirements, McKinney published the TCEQ-provided notice of application on October 16, 2008, in the McKinney Courier-Gazette. As required, McKinney has made available its complete Notice Of Intent (NOI) and technical report, the Executive Director's preliminary decision and Fact Sheet for GPN TXR040000, and a copy of the GPN TXR040000 in a public place in the County of Collin in which the MS4 is located. TCEQ's final decision to approve coverage of McKinney's MS4 under TPDES permit No. TXR040108 was issued on December 22, 2008. Document copies pertaining to this information are located in Appendix A of this annual report.

### **2. Notification of reliance on other government entities, shared SWMP, or system-wide reporting to satisfy permit obligations**

McKinney, Texas, the MS4 Operator authorized to discharge under this permit, is not relying on another government entity, shared SWMP, or system-wide reporting to satisfy any of its permit obligations.

### **3. *Annual Report Submission***

As required by the general permit, a copy of the submittal has been mailed to the TCEQ's Storm Water and Pretreatment Team in Austin, Texas and TCEQ's Region 4 office in Fort Worth, Texas.

## **B. SWMP Modifications and Additional Information**

### **1. *Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements***

McKinney incorporated two updates in permit year three to reflect changes regarding the chief executive officer appointment and a BMP 3.1 “Dry Weather Screening” procedure. Neither update changed information previously provided to the agency in the NOI; therefore a Notice of Change was not required.

On June 8, 2010 City Manager and chief executive officer, Frank Ragan, resigned. In his absence, Rick Chaffin was appointed as the Interim City Manager. As the Interim City Manager, Mr. Chaffin is appointed as the chief executive officer of the City and therefore has signatory authority.

The change to BMP 3.1 “Dry Weather Screening” involved procedural modifications of Parameters/Procedures developed in the first permit year. The MCM 3 “Illicit Discharge Detection and Elimination”, BMP 3.1 “Dry Weather Screening”, *Dry Weather Screening Parameters/Procedures* was changed to add ammonia-nitrogen to the analytical parameters. This modification was made in an effort to be better consistent with the *Dry Weather Field Screening Dallas/Fort Worth Regional Protocol* produced by the North Central Texas Council of Governments (NCTCOG). McKinney has become more involved with NCTCOG in the development of this regionally based IDDE protocol, and it was determined that the procedures should be better reflected in its program.

### **2. *Description of newly annexed land***

No land was annexed into the city limits during the third permit year.

### **3. *Impaired or TMDL status of receiving body of water***

None of the receiving bodies of water are listed as impaired. A Total Maximum Daily Load (TMDL) has not been established.

### **4. *Analytical monitoring of storm water quality***

During the third permit year, the City of McKinney continued the Dry Weather Screening Program initiated during the second permit year. Information regarding monitoring data collected during the third permit year as part of the Dry Weather Screening Program can be found in Section C, item 7b, page 9.

## **C. Implementation Narrative**

### **1. Permit Condition Compliance Status**

To date, McKinney has met all conditions as set forth by TPDES General Permit TXR040000. As evidenced by the TCEQ's December 22, 2008 final decision to approve coverage of McKinney's MS4 under the TPDES general permit, McKinney drafted and submitted to TCEQ an appropriate Storm Water Management Program (SWMP).

The activities in the third year focused on the continued implementation and development of the Best Management Practices (BMPs) listed in McKinney's approved SWMP. As required by McKinney's SWMP, all third year BMPs were accomplished prior to end of the third permit year, with the exception of BMPs 2.3 and 6.6.

The status of the specific third year BMPs for each respective Minimum Control Measure (MCM) is provided within the SWMP spreadsheet on pages 12-40. It should be noted that the spreadsheet includes information specific to the third permit year requirements only. This was done for annual report review clarification. A summary of the storm water activities planned for the next (4<sup>th</sup>) permit year is contained within section C, item 9, page 10.

### **2. Appropriateness Assessment of Best Management Practices (BMPs)**

Determining the appropriateness of BMPs is effective in demonstrating which program elements and activities require adaptation and evolution to become more efficient and effective in future permit years. Assessment consideration includes whether or not supporting evidence exists that any of the BMPs selected are inappropriate. To date, there is no supporting evidence indicating the BMPs selected are inappropriate. Nonetheless, information gathered in the third permit year resulted in improvements of BMPs 4.5 and 5.2.

During the third year a study of the City's Development Services Division was conducted from November 2009 through February 2010. The study was performed by a third party and collected input from staff, customers and policy makers via observation, interview and questionnaire. The study assessed various aspects of the City's SWMP including MCM 4 "Construction Site Runoff Control" and MCM 5 "Post-Construction Storm Water Management in New Development/Redevelopment". The study found that there was a need to clearly state engineering policies and procedures. In response to the study the Engineering Department created new documents to help Engineers/Developers/Contractors more clearly understand the Site Plan (BMP 4.5) and Engineer Design Review Process (BMP 5.2). A copy of these documents is included in Appendix E.

Additional evidence that the selected BMPs for McKinney's SWMP are appropriate includes the amount of pollutants prevented from entering, removed from, or repairs made to, the MS4 through various SWMP required activities as summarized in item 3 below. Supporting data of the success and effectiveness of the selected BMPs are included in Appendices B-G.

Based on three years of BMP implementation, McKinney staff believes that the BMPs selected are appropriate to meet the conditions of the general permit. As required, McKinney will assess the selected BMP appropriateness each year and if it is determined that any BMP(s) should be replaced based on assessment, McKinney will properly notify the Executive Director.

### ***3. Description of progress towards reducing pollutant discharge to the maximum extent practicable (MEP)***

The City of McKinney took additional steps in the third permit year toward reducing the pollutant discharge to the MEP by expanding its McKinney Cleanup (BMP 2.5) program. In the first and second permit year the McKinney Cleanup program involved 2 programs, Texas Trash-Off and Rebuilding Neighborhoods. In the third permit year the McKinney Cleanup program was expanded to include 2 additional programs; 20-Minute McKinney Makeover and Adopt-A-Park. McKinney Cleanup programs remove pollutants (floatables) from McKinney's MS4. Numbers for the McKinney Cleanup can be found in Appendix C of this Annual Report.

Other tangible measures performed that reduce and prevent pollutant discharge to the MEP include removal of pollutants through the;

- Household Hazardous Waste Collection (BMP 2.6)
- Spill Response (BMP 3.5); and
- Storm Sewer Cleaning (BMP 6.1) and Street Sweeping (BMP 6.2) programs.

Numbers for the Household Hazardous Waste Collection can be found in Appendix C of this Annual Report. A summary of spill responses by the McKinney Fire Department is included in Appendix D of this Annual Report. The amount of debris removed from McKinney's MS4 inlets, drainages, and streets by McKinney's Streets Department is included on page 36 of the BMP status spreadsheets of this Annual Report.

Although not listed as a BMP, another measurement of preventing pollutants from entering the MS4 is the 3,614 resolved cases of 'trash and debris' enforced by the Code Department. Additionally, the Dry Weather Screening Program (BMP 3.1) initiated in the second year and continued in the third year, has been effective at identifying locations requiring debris removal, thereby further preventing pollutant discharge.

Less tangible progress toward reducing pollutant discharge to the MEP can be considered through the Sanitary Sewer Smoke Testing (BMP 3.2) and Site Inspection and Enforcement (BMP 4.4) programs. McKinney's Sanitary Sewer Evaluation Study (SSES) identifies potential cross-connections with the City's storm sewer system to keep sanitary waste from being leaked into the MS4. The amount of repairs and replacement made to the sanitary sewer system based on information obtained through McKinney's SSES program is included in Appendix D.

McKinney's erosion and sediment control program identifies and enforces maintenance of deficiencies in construction site control measures to keep sediment on sites, preventing them from being washed into the MS4. Results of construction site inspection enforcement are included in Appendix E of this Annual Report.

While McKinney's SSES and Site Inspection and Enforcement information does not provide a pollutant removal figure, the effect of the actions referenced can be directly linked to prevention of pollutants into McKinney's MS4. These programs will continue to assist in pollution prevention in permit years four and five.

At this time, McKinney staff believes that the information provided demonstrates that reduction in pollutant discharge to McKinney's MS4 has been performed to the MEP. It is anticipated that subsequent permit years will show further progress.

#### ***4. Evaluation of the Program Progress***

The City of McKinney continues to make significant progress in the implementation of its SWMP. The SWMP drafted by McKinney staff and adopted by McKinney City Council has generated great interest in the program interdepartmentally, as well as publicly. There has been no shortage of positive inquiries or public volunteers to take part in the program components. Although significant progress is being made, the third year focused on improving three BMPs; BMP 2.3 (Citizen's Advisory Committee), BMP 4.5 (Receipt and Consideration of Information from Public), and BMP 6.6 (Fleet Service Center BMPs), that did not meet expectations during the second year.

In the third permit year, efforts were made to form a Citizen's Advisory Committee specific to BMP 2.3 that would provide current information on McKinney's SWMP and storm water in general in order to solicit feedback. On February 15, 2010 City Council was presented an agenda item discussing appointments to, and formation of the Storm Water Management Citizen's Advisory Committee. In order to better understand the Committee's purpose Council requested a scope. A scope was provided on March 12, 2010. Following the scope, Council requested a list of nominations for the

appointments. The list was provided on July 22, 2010. On September 13, 2010 Committee appointments were offered and accepted. The first meeting was held on September 27, 2010. This BMP is now on compliance schedule.

In the third permit year, alternative tracking means were implemented to receive, consider, and track comments from the public regarding the City's erosion control program, as well as specific project related complaints (BMP 4.5). This was done as the system originally scheduled to be executed was no longer viable. The Erosion Control Officers and Storm Water Management Specialist began logging complaints as well as the appropriate response in an excel spreadsheet. Code Enforcement Department continued to track and respond to erosion and illegal dumping complaints through Naviline until its impending termination. Another City-wide system is currently being evaluated by McKinney officials, but may not be available during the next permit years. As a result of efforts made in the third year, this BMP is on-schedule and in compliance.

Implementation of the Fleet Services (BMP 6.6) Storm Water Pollution Prevention Plan (SWP3) was not begun in the third permit year as its development was not complete. In the third year storm water management staff continued to work with Fleet Services management to formally develop a SWP3. Both parties met on February 10, 2010 and discussed SWP3 goals and schedule. A progress follow-up was conducted at 90 days. Fleet Services requested assistance from Storm Water Management staff in drafting a SWP3 template. The template was sent to Fleet Services on October 19, 2010. Although a formal SWP3 has not been developed and implemented, a detailed annual inspection of Fleet Services was used to address issues of concern pertaining to storm water exposure or potential discharge. The 3<sup>rd</sup> annual inspection revealed improvements to their operations, and a decrease in violations. Finalization and implementation of the SWP3 is scheduled for the fourth permit year.

Overall, the third year program accomplishments have reached beyond established measurable goals. Although three BMPs required improvement, 93% were accomplished. Of these, 47% exceeded the third year goals. Therefore, McKinney staff considers the Storm Water Management Program's third year progress exceptional. McKinney strives to be a positive example with respect to a North Texas Storm Water Program. It is anticipated that with the growing interest in the program as well as additional staff, the effectiveness and success of the program shall continue to grow in the remaining two years of the permit term and beyond.

**5. *The number of non-municipal construction activities that occurred within the jurisdiction of the permittee***

The City of McKinney received 45 copies of non-municipal construction permit Notice of Intents or Construction Site Permits.

**6. The number of municipal construction activities authorized under this general permit and total associated disturbed acres**

No municipal construction activities are authorized under this general permit and as such, no disturbed acres are authorized by this permit. All McKinney municipal construction activities are authorized under the TXR150000 Construction General Permit.

**7. Implementation of Specific Minimum Control Measures (MCM)**

**a) Measurable goals for each Minimum Control Measure (MCM)**

The third permit year measurable goals and progress for each MCM are included within the spreadsheet on pages 11-41.

| <b>Minimum Control Measures</b> |   | <b>Page</b> |
|---------------------------------|---|-------------|
| 1.                              | Public Education and Outreach on Storm Water Impacts                          | 11          |
| 2.                              | Public Participation and Involvement  | 24          |
| 3.                              | Illicit Discharge Detection and Elimination                                   | 28          |
| 4.                              | Construction Site Runoff Control  | 33          |
| 5.                              | Post Construction Storm Water Management in New Development and Redevelopment | 35          |
| 6.                              | Pollution Prevention/Good Housekeeping for Municipal Operators                | 37          |
| 7.                              | <i>Optional- Municipal Construction Activities</i>                            | NA          |

**Table 1.** Spreadsheet Contents for BMP and Measurable Goals Status.

It should be noted that the spreadsheet included herein originates from the approved SWMP, but specific to the Third Year Measurable Goals. The “BMP Description”, “Implementation Schedule” and stated “Measurable Goals” are presented in red text, while the start date, status, changes (if applicable), and milestones achieved pertaining to the Measurable Goals are in black text. Minimum Control Measure BMPs initiated before permit issuance are included within the spreadsheet with a “Start Date” before August 12, 2007, included in the “Implementation Schedule” column. An example is provided in Table 2 on the following page.

**MCM 1. Public Education and Outreach on Storm Water Impacts**

| Residents                             |   |   |  |
|---------------------------------------|---|---|--|
| Best Management Practices             | BMP Description   | Implementation Schedule                             | Measurable Goals   |
| BMP 1.5<br>Storm Water<br>Book Covers | Provide storm water book covers to MISD for their distribution. | Year 1 - 5  | Each year, provide enough covers to supply all MISD school children with a book cover, or provide a quantity requested by MISD.                                      |
|                                       |   | Start Date; 2004<br><br>Status; Beyond Stated Goals | For school year 2009-2010 McKinney provided 30,000 book covers with storm water information to MISD. MISD has a current enrollment of approximately 24,398 students. |

**Table 2.** Year 3 MCM progress spreadsheet example.

**b) Summary of any information (including monitoring data) collected and analyzed during the permit year used to evaluate reductions in the discharge of pollutants**

The City of McKinney continued BMP 3.1, Dry Weather Screening Program which was initiated during the second permit year. The function of this program is to detect the presence of illicit connections and improper discharges to the MS4, and then to eliminate any discovered or tracked source. The program is set up so that no fewer than 80 “major outfalls” (36” or greater) within the urbanized area are screened annually during the five-year permit term. All areas of the urbanized MS4 will be screened by permit term end.

The following is a status report of McKinney’s Dry Weather Screening Program for the third permit year (August 13, 2009 – August 12, 2010).

|                          |           |            |           |
|--------------------------|-----------|------------|-----------|
|                          | #Required | #Completed | %Complete |
| “Major Outfall” screened | 80        | 84         | 105%      |

The screenings detected one suspected illicit discharge of which field staff was able to trace back to the source. The source of the discharge was addressed. It is believed that BMP 3.1 will additionally provide a base-line of information with regard to the general health of McKinney’s MS4 and adjacent water-bodies. Additional information regarding Dry Weather Screening Program can be found in Appendix D, BMP 3.1.

Although the measurable goal was exceeded for BMP 3.1, inaccurate readings occurred with the LaMotte Smart2 Colorimeter used to analyze detergents and phenols in two water samples. The inconsistency of the LaMotte Smart 2 Colorimeter was discovered during the second permit year Dry Weather Screening Program event and was thought to be a result of equipment

maintenance. Maintenance on the LaMotte Smart 2 Colorimeter was completed prior to the third permit year, yet the same inaccurate readings occurred on the first two samples collected during the third permit year event. Due to the continued inaccurate readings resulting in false positives with the LaMotte Smart 2 Colorimeter for detergents and phenols, an alternate kit (LaMotte Storm Drain kit) will be used to screen outfalls for detergents and phenols in the future. Additional information regarding the LaMotte Smart2 Colorimeter errors may be found in Appendix D, BMP 3.1.

#### **8. *SWMP modifications and revisions***

SWMP modifications and revisions for the third and fourth permit year can be found in Section B, *SWMP Modifications and Additional Information*, item 1 on page 3.

#### **9. *Summary of the storm water activities planned for the next permit year***

The activities planned during the fourth permit year not described in this report may be found in Appendix H of this Annual Report. The activities described are those planned to be initiated in year 4 and do not include BMPs initiated prior to, year 4. For example, the measurable goal for BMP 1.4, "Seeds for Thought" Classroom Education, is scheduled for implementation from years 1 through 5. It was initiated in year 1 but will continue during year 4 and subsequent years. This and similarly scheduled activities will not be included in Appendix H.

#### **10. *Spreadsheets for BMP and Measurable Goals Status***

**(See following pages)**

## Public Education and Outreach on Storm Water Impacts

### Residents

| Best Management Practices              | BMP Description  | Implementation Schedule  | Measurable Goals   |
|--|--|--|--|
| <p>BMP 1.1<br/>Utility Bill Insert</p> | <p>Distribute educational material to residents via utility bill inserts. The inserts will include storm water education in general per the TCEQ general permit guidelines. Various inserts will also include information specifically relating to fertilizer, herbicide, and pesticide usage, proper disposal of household hazardous waste and oils, and other educational and participatory opportunities.</p> | <p>Year 1-5</p>  | <p>* Distribute educational flyer as a utility bill insert one time per year.<br/>* Make inserts available at the City's public library.</p>   |
|  |  | <p>Start Date; August 2007<br/>Status; Beyond Stated Goals</p> | <p>*A utility bill insert providing information on McKinney's Clean Up programs was mailed April 2010 to 40,000 McKinney residents.<br/>*In addition, information on McKinney's Storm Water Management Program (SWMP) was included in McKinneyInfo.mag April 2010 and was sent to 52,801 households and businesses. McKinney's SWMP information was also included in the 2009 Sustainability Annual Report and Utilities 2010 Water Quality Report which was mailed to 40,000 McKinney residents in November 2009 and July 2010, respectively. A Yard Waste Pollution insert included in local HOAs newsletter and mailed to 8,879 residents January 2010. McKinney staff participated in 20 community events at which storm water information was distributed to over 2,300 residents and visitors.<br/><b>*The utility bill insert, McKinneyInfo.mag issue, Water Quality Report, Annual Report, HOA newsletter and summary of community events are available in Appendix B of this Annual Report.</b></p> |

## Public Education and Outreach on Storm Water Impacts

### Residents

| Best Management Practices                          | BMP Description   | Implementation Schedule                          | Measurable Goals   |
|--|---|--|--|
| BMP 1.2<br>Texas SmartScape<br>Website Information | Purchase and distribute bookmarks or other informational materials promoting the Texas SmartScape Website developed by NCTCOG. Create a link from McKinney's website to the Texas SmartScape website. | Year 2-5   | <ul style="list-style-type: none"> <li>* Implement distribution plan for bookmarks or SmartScape promotional materials. Track numbers distributed.</li> <li>* Make bookmarks or promotional materials available at public library.</li> <li>* Provide a link from McKinney's storm water website (after development) to the Texas SmartScape website.</li> </ul>   |
|  |   | Start Date; February 2008<br>Status; On-Schedule | <ul style="list-style-type: none"> <li>*Bookmarks were available at various community events including Better Homes and Garden Expo and Heard Earth Day.</li> <li>*1000 bookmarks, in addition to 200 Texas SmartScape CDs, were distributed to both public libraries during the month of July, 2010.</li> <li>*Link to Texas SmartScape website has been active since the Second Permit Year.</li> <li><b>*A copy of the SmartScape bookmark order and McKinney's SmartScape user statistics are included in Appendix B of this Annual Report.</b></li> </ul> |

## Public Education and Outreach on Storm Water Impacts

### Residents

| Best Management Practices  | BMP Description   | Implementation Schedule  | Measurable Goals   |
|--|---|--|--|
| <p>BMP 1.3</p> <p>"McKinney Cares"</p> <p>Storm Water Web Site</p>   | <p>Develop a storm water web site for the city. The web site will include storm water education in general per the TCEQ general permit guidelines. The web site will also provide specific information regarding the City's TPDES Phase II program, educational and participatory opportunities, and links to other local, state, and national storm water web sites.</p> | <p>Year 3 - 5</p>  | <p>* Web site revised/updated as needed.</p> <p>* Feedback regarding McKinney's storm water program solicited via the web site.</p>  |
|  |   | <p>Start Date; August 2003</p> <p>Status; On-schedule</p>      | <p>*Storm water web site for the city was restructured on 8/28/2009 and is regularly updated with relevant information.</p> <p>*The website continues to include specific information on McKinney's SWMP, SWM Ordinance, Storm Water Manual, Stream Bank Stabilization Manual and links to TPDES, TCEQ, Texas SmartScapes, and educational material.</p> <p>*Direct e-mail contact, stormwater@mckinneytexas.org, was added in February 2010 in order to answer questions and solicit feedback.</p> <p><b>*Information from the webpage is included in Appendix B of this Annual Report.</b></p> |
| <p>BMP 1.4</p> <p>"Seeds for Thought"</p> <p>Classroom Education</p> | <p>Provide education opportunities and curriculum materials to the McKinney Independent School District (MISD). Materials and curriculum will be assessed and selected from existing, readily available programs, and through discussions with MISD staff.</p>  | <p>Year 1 - 5</p>  | <p>* Discuss City's Phase II storm water education goals with MISD.</p> <p>* Provide information on available storm water educational material to MISD.</p>  |
|  |   | <p>Start Date; Pre-2007</p> <p>Status; Beyond Stated Goals</p> | <p>*McKinney staff presented various lessons on water conservation, recycling, and litter including "Fred the Fish" from Project WET to MISD students during the 2009-2010 school year. Approximately 25 lessons were presented to over 3,000 kids.</p> <p>*In addition McKinney staff included storm water education at non-MISD schools including Boy Scouts, Daisy Troops, Brownie's, etc. Approximately 15 lessons were presented to over 1,300 kids.</p> <p><b>*A summary of lessons are included in Appendix B of this Annual Report.</b></p>  |

## Public Education and Outreach on Storm Water Impacts

### Residents

| Best Management Practices                        | BMP Description  | Implementation Schedule                                | Measurable Goals  |
|--|--|--|---|
| BMP 1.5<br>Storm Water Book<br>Covers            | Provide storm water book covers to MISD for their distribution.  | Year 1 - 5   | Each year, develop, create, and provide storm water book covers to MISD for their distribution. Each year, provide enough covers to supply all MISD school children with a book cover, or provide a quantity requested by MISD.   |
|  |  | Start Date; 2004<br>Status; Beyond Stated Goals        | *McKinney has been providing storm water related book covers to MISD since 2004. For school year 2009-2010 McKinney provided 30,000 book covers with storm water information to MISD. MISD has a current enrollment of approximately 24,398 students.<br><b>*A copy of the book cover that will be distributed during the 2010-2011 school year and order form is included in Appendix B of this Annual Report.</b>   |
| BMP 1.6<br>"Stencil Town"<br>Storm Drain Markers | Place storm drain markers on local storm drains in an effort to increase awareness and to prevent dumping into the storm drain system. | Year 2 - 5   | * Continue implementation of the City's plan for installing storm drain markers, achieving the 25% marked goal by the end of the 5th year.  |
|  |  | Start Date; August 2007<br>Status; Beyond Stated Goals | *McKinney Streets staff installed 800 markers, McKinney volunteers installed approximately 250 markers, totaling 1,050. The First Annual Report reported 3,445 unmarked inlets. In Year Two 924 inlets (26.8%) were marked. To date 57.3% of the unmarked inlets have been marked.<br>*In the Third Permit Year there were not any completed projects whose plans were submitted and reviewed after September 2008. Therefore, there were no new inlets for developer and contractors to mark.<br><b>*A copy of the inlet marker has been included in Appendix B of the Second Permit Year Annual Report.</b> |

## Public Education and Outreach on Storm Water Impacts

### Residents

| Best Management Practices     | BMP Description  | Implementation Schedule                                | Measurable Goals  |
|-------------------------------|--|--|---|
| BMP 1.7<br>"Public Reference" | Provide educational material for reference at the Public Library. Materials to be provided will include copies of educational materials used for other educational BMPs, access to McKinney's storm water website, information regarding McKinney's storm water program, and other miscellaneous storm water educational material as deemed appropriate. | Year 1 - 5   | <p>* Provide copies of educational materials at the Public Library.</p> <p>* A description of the materials made available at the public library will be included in the Annual Report</p>  |
|                               |  | Start Date; March 2008<br>Status; Beyond Stated Goals  | <p>*A complete copy of the Third Permit Year Annual Report including all educational material is available at the library for residents or visitors.</p> <p>*140 'non-toxic choices' bookmarks were distributed to both public libraries during the month of July, 2010.</p> <p>*In addition, McKinney Storm Water and Office of Environmental Sustainability staff read environmental books covering water conservation, recycling, and litter to toddlers through pre-schoolers at McKinney's Public library during Texas Recycle Week November 16, 17 and 18, 2009 and presented a Recycled Art lesson for the Summer Teen Program on July 1st, 2010.</p> <p><b>*A copy of the bookmarks and recycled art lesson are included in Appendix B of this Annual Report.</b></p> |
| BMP 1.8<br>Storm Water video  | Develop or acquire storm water videos for display on McKinney's Public Access Channel. Copies of videos will also be made available for checkout at the Public Library and will be made available to MISD for use in classroom education.  | Year 2 - 5   | <p>* Air a minimum of three storm water educational videos, developed or acquired by the City, on the City's public access channel.</p> <p>* Provide copies of videos to Public Library</p>   |
|                               |  | Start Date; Summer 2007<br>Status; Beyond stated goals | <p>*McKinney's government access TV station, McKinney Vision, produced a fourth storm water video, Clean Storm Water, which aired on its channel in September 2009. The 2:30 long video aired 120 times during the month of September.</p> <p><b>*A copy of McKinney Vision storm water video Clean Storm Water is included in Appendix B of this Annual Report.</b></p>  |

## Public Education and Outreach on Storm Water Impacts

### Visitors

| Best Management Practices         | BMP Description  | Implementation Schedule | Measurable Goals |
|-----------------------------------|--|-------------------------|------------------|
| See BMP 1.3 (Storm Water Website) | <i>Refer to referenced BMP for specific goals and schedule</i> |                         |                  |
| See BMP 1.6 (Stencil Town)        | <i>Refer to referenced BMP for specific goals and schedule</i> |                         |                  |
| See BMP 1.7 (Public Reference)    | <i>Refer to referenced BMP for specific goals and schedule</i> |                         |                  |

## Public Education and Outreach on Storm Water Impacts

| Public Service Employees                                |  |  |   |
|---|--|--|---|
| Best Management Practices                               | BMP Description  | Implementation Schedule  | Measurable Goals  |
| <p>BMP 1.9<br/>City Employee<br/>Education</p>          | <p>City Employees will receive storm water education on general storm water topics in accordance with TCEQ educational guidelines and will also receive information relating to McKinney's Phase II program, with a focus on good housekeeping measures.</p> | <p>Year 1 - 5</p>  | <p>* Provide Storm Water information through pay-check stuffers a minimum of once per permit year.<br/>* Provide educational material on the City's intranet.</p>   |
|   |  | <p>Start Date; May 2008<br/>Status; Beyond Stated Goals</p>      | <p>*In April, 2010 pay check stuffers were provided to 1,000 City of McKinney employees. The stuffer provided information on McKinney's Cleanup Programs with litter reduction tips.<br/>*During the month of November 2009, the City of McKinney 2009 Annual Report, which included information on McKinney's Storm Water Management Program, was available on the City's intranet.<br/>*In addition between September 2009 and July 2010 McKinney employees from various Departments attended 10 trainings where they received education on general storm water topics.<br/><b>*A copy of the pay check stuffer can be found under BMP 1.1 while the intranet posting and summary of City training is included in Appendix B.</b></p> |
| <p>BMP 1.10<br/>Education For<br/>Elected Officials</p> | <p>Elected Officials will receive storm water education on general storm water topics in accordance with TCEQ educational guidelines and will also receive information relating to McKinney's Phase II program.</p>  | <p>Year 1 - 5</p>  | <p>* Provide educational material and Phase II program status reports a minimum of 2 times per year through Council meetings or Council updates.<br/>* Provide educational material on the City's intranet.</p>   |
|   |  | <p>Start Date; November 2007<br/>Status; Beyond Stated Goals</p> | <p>*McKinney City Council received educational material and status information at 4 meetings.<br/>*Educational material has been provided on the City intranet as indicated in BMP 1.9 above.<br/><b>*A summary of City Council meeting dates, updates and agendas is included in Appendix B.</b></p>   |

## Public Education and Outreach on Storm Water Impacts

### Businesses

| Best Management Practices                | BMP Description  | Implementation Schedule                        | Measurable Goals   |
|--|--|--|--|
| BMP 1.11<br>Partnerships for<br>McKinney | Develop a partnership program for providing educational material to McKinney's businesses. | Year 3 - 5                                     | * Solicit feedback once per year and revise partnership program if appropriate.<br>* Distribute educational material a minimum of 1 time per year.   |
|  |  | Start Date; August 2007<br>Status; On-schedule | *On December 16, 2009, 7 Chamber of Commerce members representing McKinney businesses attended a Storm Water Management Education Committee meeting to solicit feedback.<br>*Distribution of the food establishment Storm Water poster began November 2009 and has been distributed to over 400 food establishments in McKinney.<br>*A flyer providing information on McKinney's SWMP and pollution reduction tips for all business types was distributed to 2,500 commercial and industrial businesses via e-mail through the McKinney Chamber of Commerce distribution list in December 2009.<br>*Committee tracking sheet plus meeting summary, Storm Water Food Establishment poster and General Business flyer is included in Appendix B of this Annual Report. |

## Public Education and Outreach on Storm Water Impacts

### Businesses

| Best Management Practices                   | BMP Description  | Implementation Schedule | Measurable Goals |
|---|--|-------------------------|------------------|
| See BMP 1.2 (Texas SmartScape Website)      | <i>Refer to referenced BMP for specific goals and schedule</i> |                         |                  |
| See BMP 1.3 (McKinney Storm Water Web Site) | <i>Refer to referenced BMP for specific goals and schedule</i> |                         |                  |

## Public Education and Outreach on Storm Water Impacts

### Commercial and Industrial Facilities

| Best Management Practices                                   | BMP Description   | Implementation Schedule  | Measurable Goals  |
|---|---|--|---|
| <p>BMP 1.12<br/>Commercial and<br/>Industrial Education</p> | <p>Develop a partnership program for providing educational material to McKinney's commercial and industrial businesses.</p> | <p>Year 3 - 5</p>  | <p>* Solicit feedback once per year and revise partnership program if appropriate.<br/>                     * Distribute educational material a minimum of 1 time per year.<br/>                     * Continue e-mail distribution as appropriate.<br/>                     * Track number of storm water related communications</p>   |
|   |   | <p>Start Date; August 2007<br/>Status; Beyond Stated Goals</p> | <p>*A flyer providing information on McKinney's Clean Up programs was distributed to 148 downtown businesses in April 2010 via e-mail through a group distribution list created by McKinney Main Street.<br/>                     *Information regarding feedback, educational material distribution and communication for commercial and industrial business is included in BMP 1.1 and 1.11 above.<br/>                     *In addition, McKinney Storm Water staff met with 9 employees of SouthWest Ice Cream Specialties to discuss good housekeeping practices on October, 21, 2009. McKinney Storm Water staff met with IESI environmental management to discuss IESI's storm water pollution prevention program on February 24, 2010. McKinney staff distributed storm water information to over 900 local employees at Main Street on October 13, 2010, JobCorps on April 20, 2010 and Raytheon on April 26, 2010. Educational material was also distributed to local, commercial and industrial business as indicated in BMP 1.11 above.<br/>                     *A copy of the Clean Up program flyer is included in Appendix B of this Annual Report.</p> |

## Public Education and Outreach on Storm Water Impacts

### Commercial and Industrial Facilities

| Best Management Practices                   | BMP Description  | Implementation Schedule | Measurable Goals |
|---|--|-------------------------|------------------|
| See BMP 1.2 (Texas SmartScape Website)      | <i>Refer to referenced BMP for specific goals and schedule</i> |                         |                  |
| See BMP 1.3 (McKinney Storm Water Web Site) | <i>Refer to referenced BMP for specific goals and schedule</i> |                         |                  |

## Public Education and Outreach on Storm Water Impacts

| Construction Site Personnel            |  |  |   |
|--|--|--|---|
| Best Management Practices              | BMP Description  | Implementation Schedule                                | Measurable Goals  |
| BMP 1.13<br>City Inspector<br>Training | Train City construction site erosion control inspectors. | Year 1 - 5   | <ul style="list-style-type: none"> <li>* Provide a minimum of 8 hours of construction site erosion control training to inspection personnel at least once every three years.</li> <li>* Provide a minimum of 8 hours of construction site erosion control training to new inspection employees within 6 months of the employee's start date.</li> <li>* Track training hours and number of attendees.</li> </ul>  |
|  |  | Start Date; August 2007<br>Status; Beyond Stated Goals | <ul style="list-style-type: none"> <li>*McKinney Erosion Control and Engineering Construction Inspectors received 2 hours of construction site erosion control training on April 2010.</li> <li>*By the end of the third permit year City Inspectors have been provided 13 hours of construction site erosion control training, which is beyond the goal of 11 hours.</li> <li>*There were no new inspection employees hired during the third permit year.</li> <li><b>*A summary of the City Inspector training, up to the third year, is included in Appendix B of this Annual Report.</b></li> </ul> |

## Public Education and Outreach on Storm Water Impacts

| Construction Site Personnel   |   |  |   |
|---|---|--|---|
| Best Management Practices   | BMP Description   | Implementation Schedule                        | Measurable Goals  |
| BMP 1.14<br>Developer/Builder/<br>Engineer<br>Education and<br>Training | Provide educational material to the development community and offer training opportunities. | Year 2 - 5                                     | <ul style="list-style-type: none"> <li>* Provide educational material annually to builders, developers, and engineers that are active in McKinney.</li> <li>* Provide developers, builders, and engineers that are active in McKinney with construction site erosion control training at least once every 2 years.</li> <li>* Track training hours and number of attendees.</li> </ul>  |
|   |   | Start Date; August 2007<br>Status; On-schedule | <ul style="list-style-type: none"> <li>*A flyer providing information on McKinney's Clean Up program was distributed to 33 Developers, Engineers, Contractors, and Builders via e-mail through a group distribution list created by the Project Expediter in November 2009.</li> <li>*The second construction site erosion control training was provided on April 29, 2010 for 45 Developers/Contractors and Builders and 58 Engineers.</li> <li>*Flyer and training tracking sheets can be found in Appendix B.</li> </ul> |

## Public Participation and Involvement

| Best Management Practices                                       | BMP Description  | Implementation Schedule                                  | Measurable Goals  |
|---|--|--|---|
| BMP 2.1<br>"Stencil Town"<br>Storm Drain Marker<br>Installation | Solicit public involvement in the installation of storm drain markers for installation per BMP 1.6.      | Year 2 - 5   | *Implement public participants in installation of storm drain markers.<br>*Track the number of groups, individuals, and markers placed by these groups.   |
|   |  | Start Date; July, 2009<br>Status; Beyond Stated Goals    | *The second Storm Water Inlet Marking (SWIM) event was held on October 24th, 2009. Prospective participants were acquired through the Volunteer McKinney center in conjunction with McKinney's Make a Difference Day. The event information was posted at volunteermckinney.org.<br>*31 volunteers representing 2 local churches formed 5 teams and installed approximately 250 markers.<br>*In addition to the above required efforts, Volunteers distributed 160 door hangers with storm water information to residents near the newly marked storm drain inlets.<br>*A copy of the inlet marker and door hanger has been included in Appendix C of the Second Permit Year Annual Report. |
| BMP 2.2<br>Public Meetings                                      | Conduct public meetings to present and to solicit feedback on McKinney's storm water management program. | Year 1 - 5   | * Conduct a minimum of 1 public meeting per year.<br>* Advertise and conduct the meetings in accordance with local and state public notice requirements.  |
|   |  | Start Date; November 2007<br>Status; Beyond Stated Goals | *6 public meetings were conducted during the permit year.<br>*Meetings were conducted and advertised in accordance with local and state public notice requirements.<br>*A summary of public meetings and a sample of a public notice is included in Appendix C of this Annual Report.   |

## Public Participation and Involvement

| Best Management Practices                           | BMP Description  | Implementation Schedule                                      | Measurable Goals  |
|---|--|--|---|
| <p>BMP 2.3<br/>Citizen's Advisory<br/>Committee</p> | Form a citizen's advisory committee to solicit input on McKinney's storm water management program. | Year 2 - 5   | * Conduct a minimum of 1 citizen's advisory committee meeting per year.   |
|   |  | <p>Start Date; August 2007<br/>Status; Needs Improvement</p> | <p>*In response to the refocus of the committee formed in the first permit year to not include storm water information an alternative committee is being formed during the third year. McKinney Storm Water staff worked with City Council to form the Storm Water Citizen's Advisory committee. A Committee scope was approved March, 2010. Committee member nominees were submitted to Council July, 2010. Committee members were appointed September 13, 2010. The inaugural meeting occurred September 27, 2010.</p> <p>*McKinney's previously established community meetings listed in BMP 2.2 were used to solicit input until the Committee was formed.</p> <p style="color: green;"><b>*Documents covering formation of the Committee are included in Appendix B under BMP 1.10. September 27, 2010 meeting tracking sheet and agenda can be found in Appendix C.</b></p> |

## Public Participation and Involvement

| Best Management Practices     | BMP Description   | Implementation Schedule                        | Measurable Goals  |
|-------------------------------|---|--|---|
| BMP 2.4<br>Stormwater hotline | Develop and advertise a dedicated storm water hotline to solicit information related to illicit discharges and illegal dumping, complaints, and general comments regarding McKinney's storm water management program. | Years 2 - 5                                    | * Implement the procedures developed for this BMP in the first year.<br>* Advertise the hotline's existence through various Public Education BMP's as appropriate.  |
|                               |   | Start Date; August 2007<br>Status; On-schedule | *Continued to use existing hot-line for non-life threatening emergencies, 972-547-7350, which is available 24/7.<br>*Continued to implement existing hot-line procedures for taking, tracking, assigning, and investigating.<br>* <b>Dedicated storm water hotline was advertised through utility bill inserts (BMP 1.1), storm water website (BMP 1.3), employee paycheck stuffers (BMP 1.9), commercial and industrial e-mail (BMP 1.12), Developer/Builder/Engineer e-mail (BMP 1.14), and "Stencil Town" door hanger (BMP 2.1).</b> |

## Public Participation and Involvement

| Best Management Practices  | BMP Description  | Implementation Schedule                             | Measurable Goals   |
|--|--|---|--|
| BMP 2.5<br>McKinney Cleanup  | Continue McKinney's existing community cleanup program in order to reduce floatables, etc., that make their way to the stormwater conveyance system. | Year 1 - 5  | * Continue sponsoring McKinney's existing cleanup program a minimum of once per year.  |
|  |  | Start Date; Pre-2004<br>Status; Beyond Stated Goals | *Continued to sponsor and support McKinney clean-up programs Texas Trash-Off (May 15, 2010) and Rebuilding Neighborhoods (June 5, 2010).<br>*In addition, on April 23rd McKinney's Storm Water Program hosted its first 20-Minute McKinney Makeover clean up event and McKinney's OES initiated an Adopt-A-Park clean up program in the third permit year.<br><b>*Results of the events are available in Appendix C of this Annual Report.</b> |
| BMP 2.6<br>Household<br>Hazardous Waste<br>Collection and<br>Recycling | Provide opportunities for collection and recycling of hazardous materials from local residents.  | Year 2 - 5  | * Evaluate the success of the previous year's collection and recycling activities.<br>* Update the household hazardous waste collection and recycling program to reflect any necessary changes as determined in the evaluation.  |
|  |  | Start Date; Pre-2004<br>Status; On-schedule         | *The existing Household Hazardous Waste and recycling program was continued during the Third Permit year.<br><b>*Results of the collections are available in Appendix C of this Annual Report.</b>   |

## Illicit Discharge Detection and Elimination

| Illicit Discharges                         |   |  |  |
|--|---|--|--|
| Best Management Practices                  | BMP Description   | Implementation Schedule                            | Measurable Goals   |
| BMP 3.1<br>Dry Weather<br>Screening        | Conduct dry weather screening of major storm water outfalls.  | Year 2 - 5   | * Conduct dry weather screening procedures developed in First Permit Year.<br>* Dry weather screen no fewer than 80 major outfalls per year  |
|  |   | Start Date; June 2009<br>Status; Ahead of schedule | *84 "major outfalls" were selected for the dry weather screening.<br>* <b>The results and supporting documentation are included in Appendix D of this Annual Report.</b>   |
| BMP 3.2<br>Sanitary Sewer<br>Smoke Testing | Conduct smoke testing of sanitary sewers in order to identify potential cross-connections with the City's storm sewer system. | Year 1 - 5   | * Conduct sanitary sewer smoke testing as a part of the City's on-going Sanitary Sewer Evaluation Study (SSES) program.<br>* Track the linear feet of sewer lines tested, the number of detected breaks, and the number of repairs made based on the SSES program. |
|  |   | Start Date; Pre-2002<br>Status; On-Schedule        | *McKinney's SSES program continued through the Third Permit Year.<br>* <b>The results of this program during the Third Permit Year time frame are included in Appendix D of this Annual Report.</b>  |

## Illicit Discharge Detection and Elimination

### Illicit Discharges

| Best Management Practices                              | BMP Description  | Implementation Schedule                                | Measurable Goals   |
|--|--|--|--|
| <p>BMP 3.3<br/>Illicit Discharge<br/>Investigation</p> | <p>Conduct investigations to determine the source of illicit connections and illegal dumping activities.</p> | <p>Year 2 - 5</p>                                      | <p>* Conduct investigations in accordance with investigation procedures established in First Permit Year to identify sources of illicit discharges or illegal dumping as identified from dry weather screening, smoke testing, and/or from information received from the City's storm water hotline.<br/>* Track number of investigations performed.<br/>* Track number of detected discharges through hotline information, dry weather screening, smoke testing, or other.</p>  |
|  |  | <p>Start Date; August 2007<br/>Status; On-Schedule</p> | <p>*450 complaints were reported through the Hotline, 8 of which were the result of an illicit discharge. In addition, City staff reported 50 complaints. All were eliminated and resolved by Streets.<br/>*Smoke testing discovered ~990 defects. To date Wastewater 343 has repaired of the defects. Video camera testing discovered 330 defects, as a result Wastewater has replaced 3,081 ft of mains.<br/>*Dry Weather Screening identified 2 possible illicit discharges that were later discovered to be allowable discharges.<br/>*6 sanitary overflows totaling 13,700 gallons detected through the hotline were eliminated through the removal of debris in the lines.</p> |

## Illicit Discharge Detection and Elimination

| Illicit Discharges                               |   |  |   |
|--|---|--|---|
| Best Management Practices                        | BMP Description   | Implementation Schedule                          | Measurable Goals  |
| BMP 3.4<br>Elimination of Illicit<br>Connections | Illicit discharge connection elimination.                                   | Year 2 - 5                                       | * Utilizing the regulatory authority developed in the First Permit Year, eliminate identified sources of illicit discharge connections or demonstrate escalated enforcement actions against the responsible entity. |
|  |   | Start Date; December 2006<br>Status; On-schedule | *21 Notice of Violation letters were issued during the third permit year. No Storm Water ordinance citations were issued.<br><b>*BMP 3.3 summarizes discharges eliminated.</b>                                      |
| BMP 3.5<br>Spill Response                        | Continue implementation of existing spill response procedures and training. | Year 1 - 5                                       | * Continue implementation of existing spill response procedures and training.<br>* Track number of responses to spills / Hazmat incidents.<br>* Track the number of training hours for appropriate employees.       |
|  |   | Start Date; Pre-1999<br>Status; On-schedule      | <b>The results and supporting documentation are included in Appendix D of this Annual Report.</b>   |

## Illicit Discharge Detection and Elimination

### Illicit Discharges

| Best Management Practices  | BMP Description  | Implementation Schedule | Measurable Goals |
|--|--|-------------------------|------------------|
| See BMP 2.4 (Storm Water Hotline)                                | <i>See Public Involvement MCM for goals and schedule</i> |                         |                  |
| See BMP 2.6 (Household Hazardous Waste Collection and Recycling) | <i>See Public Involvement MCM for goals and schedule</i> |                         |                  |

## Illicit Discharge Detection and Elimination

### Storm Sewer Map

| Storm Sewer Map                             |  |   |  |
|---|--|---|--|
| Best Management Practices                   | BMP Description  | Implementation Schedule                     | Measurable Goals   |
| BMP 3.7<br>Storm Sewer<br>System Map        | Develop a storm sewer map in accordance with TCEQ requirements.  | Year 1                                      | * GIS mapping information for the City's storm sewer system has been collected. A storm sewer map will be prepared from this data in accordance with TCEQ guidelines.  |
|   |  | Start Date;<br>Status; Complete             | <b>A map of the First Permit Year added outfalls is included in Appendix D of this Annual Report.</b>  |
| BMP 3.8<br>Update Storm Sewer<br>System Map | Update the City's storm sewer system map as needed to record new pipes/systems created by new development. | Year 1 - 5                                  | * Continue the existing program of triggering/completing storm sewer mapping changes as permits and as-built plans are filed for new construction activities.<br>* Track number of outfalls added to storm sewer outfall map.  |
|   |  | Start Date; Pre-2002<br>Status; On-schedule | *McKinney continues to require the developer to provide information on all newly constructed storm sewer. This information is then added to the appropriate layer in McKinney's GIS.<br>*Within McKinney's incorporated limits 9 outfalls were added during the third Permit year. 4 of these outfalls were located within the McKinney UA.<br><b>*A map of the third permit year added outfalls is included in Appendix D of this Annual Report</b> |

## Construction Site Runoff Control

| Best Management Practices                                       | BMP Description   | Implementation Schedule  | Measurable Goals   |
|---|---|--|--|
| BMP 4.1<br>Controlling<br>Ordinances                            | The City of McKinney has a thorough, existing construction site erosion control program. Specific ordinances and guidance documents describing the existing program are attached. | Year 1 - 5   | * Continue implementation of existing programs. (Attached as Appendix D)   |
| BMP 4.2<br>Requirements for<br>Construction Site<br>Contractors |   | BMPs 4.1-4.4<br>Start Dates; Pre-2003<br>Status; Beyond Stated Goals | McKinney continues to periodically evaluate and consider amendments to the existing storm water management ordinance in pursuit of enhanced environmental and storm water management practices. No amendments were made during the Third Year permit.  |
| BMP 4.3<br>Site Plan Review                                     |   |  | *McKinney staff is reviewing and requesting input from stakeholders in order to update the McKinney Storm Water Manual. The revisions will be based on better data and components of North Central Texas Council of Government's (NCTCOG) iSWM™ (integrated storm water management) recommendations.<br>*The McKinney General Notes document was amended to better address site requirements regarding erosion control.<br><b>*The draft Storm Water Manual is available upon request. The amended General Notes are included in Appendix E of this Annual Report.</b> |
| BMP 4.4<br>Site Inspection and<br>Enforcement                   |   |  | *64 Site plans were submitted and reviewed between August 2009 and August 2010. Each plan review included consideration of pre and post project drainage aspects as well as erosion control plan details.<br>*In addition, internal and public comments received in BMP 4.5 resulted in new documents with flow charts and checklists to help contractors understand the review process.<br><b>*The new documents can be found in Appendix E.</b><br><b>Results of site inspection enforcement are included in Appendix E of this Annual Report.</b>                   |

## Construction Site Runoff Control

| Best Management Practices  | BMP Description   | Implementation Schedule                                | Measurable Goals   |
|--|---|--|--|
| BMP 4.5<br>Receipt and<br>Consideration of<br>Information from<br>Public | Develop and implement a program for the receipt and consideration of public comments regarding erosion control. | Year 2 - 5   | * Implement system for receiving, considering, and tracking comments from the public regarding the City's erosion control program and for specific project-related complaints.   |
|  |   | Start Date; Pre-2002<br>Status; Beyond Stated Goals    | *The Storm Water Management Specialist used an excel spreadsheet to receive, consider and track comments from the public. Storm Water Management Specialist received and distributed 80 comments from the public. All 80 comments were resolved.<br>*In addition, a study of the City's Development Services Division was conducted November 2009 through February 2010. The study was performed by a third party and collected input from staff, customers and policy makers via observation, interview and questionnaire. The study included many comments from the public regarding the City's erosion control program as well as specific project-related complaints.<br>*The study is available upon request. |
| BMP 4.6<br>Review Erosion and<br>Sediment Control<br>Program             | Review the effectiveness, appropriateness, and cost-effectiveness of the existing erosion control program.      | Year 3- 5  | * No formal review. Continue existing and/or revised programs.   |
|  |   | Start Date; August 2007<br>Status; Beyond Stated Goals | *McKinney Storm Water staff met with the City attorney and municipal courts staff to discuss future steps regarding citation procedures.<br>*Meeting attendance sheet can be found in Appendix E.  |

## Post-Construction Storm Water Management in New Development/Redevelopment

| Best Management Practices  | BMP Description  | Implementation Schedule                      | Measurable Goals  |
|--|--|--|---|
| BMP 5.1<br><i>iSWM</i> <sup>TM</sup> Design<br>Manual<br>Development &<br>Implementation | Review North Central Texas Council of Governments' integrated Storm Water ( <i>iSWM</i> <sup>TM</sup> ) Design Manual. Consider portions of the manual congruent with McKinney's Storm Water and Planning ordinances. Adopt manual as appropriate. | Year 1 - 5                                   | *Continue to participate financially in support of the NCTCOG-sponsored <i>iSWM</i> <sup>TM</sup> Design Manual throughout permit term or until fiscal support is not longer required.  |
|  |  | Start Date; Pre-2007<br>Status; On-schedule  | *McKinney continues to contribute financially and support all NCTCOG <i>iSWM</i> <sup>TM</sup> programs.<br><b>*Letters of Commitment are included in Appendix F of this Annual Report.</b>   |
|  |  | Year 2 - 3                                   | * Review, assess, and adopt the regional <i>iSWM</i> <sup>TM</sup> Design Manual in part or in whole, as or if deemed appropriate.  |
|  |  | Start Date; July 2008<br>Status; On-schedule | *McKinney staff is reviewing and requesting input from stakeholders in order to update the McKinney Storm Water Manual. The revisions will be based on better data and components of NCTCOG's <i>iSWM</i> <sup>TM</sup> (integrated storm water management) recommendations.<br><b>*The draft McKinney Storm Water Manual with track changes is available upon request.</b> |

## Post-Construction Storm Water Management in New Development/Redevelopment

| Best Management Practices               | BMP Description  | Implementation Schedule                             | Measurable Goals   |
|---|--|---|--|
| BMP 5.2<br>Engineering Design<br>Review | Continue existing design review process.               | Year 1 - 5  | * Continue existing design review process of all construction projects, one acre in size, or larger, to verify compliance with the city's stormwater ordinance.  |
|   |  | Start Date; Pre-2003<br>Status; Beyond Stated Goals | *64 Site plans were submitted and reviewed between August 2009 and August 2010. Each plan review included consideration of pre and post project drainage aspects as well as erosion control to verify compliance with McKinney's Storm Water ordinance.<br>*In addition, internal and public comments received in BMP 4.5 resulted in new documents with flow charts and checklists to help contractors understand the review process.<br><b>*The new documents can be found in Appendix E, BMP 4.3.</b> |
| BMP 5.3<br>Land Use Plan                | Continue to utilize the City's existing land use plan. | Year 1 - 5  | *Continue implementing existing land use plan.<br>*Evaluate existing land use plan and provide recommendations considering environmental and storm water management practices once during the first permit period.   |
|   |  | Start Date; Pre-2003<br>Status; Beyond Stated Goals | *The City's Future Land Use Plan was amended by Ordinance 2010-01-001 on January 5, 2010 to reflect the Trinity Falls Municipal Utility District, the Airport Master Plan, boundary changes between McKinney, Fairview and Princeton, as well as changes to the Master Thoroughfare Plan.<br><b>*Amended Plan is included in Appendix F of this Annual Report.</b>   |

## Pollution Prevention/Good Housekeeping for Municipal Operations

| Good Housekeeping                  |  |   |  |
|------------------------------------|--|---|--|
| Best Management Practices          | BMP Description  | Implementation Schedule                     | Measurable Goals   |
| BMP 6.1<br>Storm Sewer<br>Cleaning | Remove floatables, debris, sediment, etc. from inlets and pipes as needed to maintain capacity and to reduce stormwater pollution. | Year 2 - 5                                  | * Implement the inspection schedule. Clean inlets as necessary.<br>* Clean system as needed in response to complaints or reported problems.  |
|                                    |  | Start Date; Pre-2002<br>Status; On-schedule | *Visual inspections are performed by Streets and tracked by GIS quarterly.<br>*Street staff inspected 8,443 inlets and 954 headwalls. Of these Street staff cleaned 1,241 inlets and 54 outfalls removing approximately 100+ tons of waste. 12 miles of drainage ways were maintained removing 30,000 lbs. of waste.<br>*Dry Weather Screening identified 2 outfalls requiring maintenance or debris removal due to enough restriction to result in overflow.<br>*Complaint response information is included in BMP 3.3. |
| BMP 6.2<br>Street Sweeping         | Continue existing street sweeping program.   | Year 1 - 5                                  | Sweep major arterials once per quarter, collectors twice per year, and residential streets once per year.  |
|                                    |  | Start Date; Pre-1988<br>Status; On-schedule | 1,080 miles of street were swept, 1,760 tons of debris were removed.   |

## Pollution Prevention/Good Housekeeping for Municipal Operations

### Good Housekeeping

| Best Management Practices          | BMP Description                                 | Implementation Schedule                     | Measurable Goals  |
|------------------------------------|---|---|---|
| BMP 6.3<br>Herbicide<br>Management | Continue existing herbicide management program. | Year 1 - 5                                  | <p>* Continue McKinney's existing herbicide management program following all Federal, State and local laws concerning the handling and application of herbicides as well as any appropriate documentation.</p> <p>* Track training and licensure as required.</p>   |
|                                    |   | Start Date; Pre-2002<br>Status; On-schedule | <p>*McKinney has 3 TDA (Texas Department of Agriculture) Certified Non Commercial Licensed Applicators. During the Third Permit Year all 3 applicators received their respective Continuing Educational Credits through the Texas Agrilife Extension Service.</p> <p>*A daily log is maintained with respect to spraying dates, chemicals used, amount of each chemical and weather conditions for that day and location of application.</p> <p>*All chemicals are securely stored and properly marked.</p> |
| BMP 6.4<br>Pesticide<br>Management | Continue existing pesticide management program. | Year 1 - 5                                  | <p>* Continue McKinney's existing pesticide management program following all Federal, State and local laws concerning the handling and application of pesticides as well as any appropriate documentation.</p> <p>* Track training and licensure as required.</p>   |
|                                    |   | Start Date; Pre-2002<br>Status; On-schedule | See BMP 6.3   |

## Pollution Prevention/Good Housekeeping for Municipal Operations

| Good Housekeeping                       |   |   |   |
|---|---|---|---|
| Best Management Practices               | BMP Description   | Implementation Schedule                             | Measurable Goals  |
| BMP 6.5<br>Safe Material<br>Storage     | Continue existing material storage management practices.  | Year 1 - 5  | * Continue McKinney's existing material storage practices.<br>* Perform inspections of material storage facilities annually.<br>* Include any inspection based changes in the annual report.  |
|   |   | Start Date; Pre-2004<br>Status; Beyond Stated Goals | *McKinney's Environmental Waste division of Public Works continues to implement existing material storage practices.<br>*An inspection of the materials storage facility was conducted on August 9, 2010. The storage facility is equipped with secondary containment and properly ventilated.<br>*In addition, the inspection was expanded to include the Fleet Service Center and Municipal Yard.<br><b>*Inspection report and associated photographs can be found in Appendix G of this Annual Report.</b> |
| BMP 6.6<br>Fleet Service Center<br>BMPs | Review existing fleet service center operations and infrastructure. Develop and implement structural and non-structural controls. | Year 2 - 5  | * Develop a storm water management plan, including an implementation plan for structural and non-structural controls.<br>* Implement the stormwater management plan developed in year 2 of the permit term.   |
|   |   | Start Date; July, 2009<br>Status; Needs Improvement | *Findings of the inspection listed in BMP 6.5 were used to address any issues of concern pertaining to storm water exposure or potential discharge.<br><b>*The Storm Water Pollution Prevention Plan template is available upon request</b>   |

## Pollution Prevention/Good Housekeeping for Municipal Operations

| Training                     |   |  |   |
|------------------------------|---|--|---|
| Best Management Practices    | BMP Description   | Implementation Schedule                                | Measurable Goals  |
| BMP 6.7<br>Employee Training | Add good housekeeping and pollution prevention training to existing operations (Streets/Public Works) employee training programs. | Year 2 - 5   | * Add the new training module to existing street department and public works department training programs.<br>* Train all new operations employees within six months of the employee's start date.  |
|                              |   | Start Date; August 2004<br>Status; Beyond Stated Goals | *There were no new Streets/Public Works employees hired during the Third Permit Year.<br>*29 Public Works/Streets staff watched NCTCOGs <i>Preventing Storm Water Pollution: What Can We Do</i> video in December 2009.<br>*11 Public Works/Streets staff attended the American Public Works Association's 2 hour Webcast CLICK, LISTEN & LEARN SERIES - NPDES: Good Housekeeping in June 2010. |

## Pollution Prevention/Good Housekeeping for Municipal Operations

| Industrial Activities     |  |   |  |
|---------------------------|--|---|--|
| Best Management Practices | BMP Description                                  | Implementation Schedule                     | Measurable Goals   |
| BMP 6.8<br>Airport SWPPP  | Continue to implement the existing airport SWPPP | Year 1 - 5                                  | * Continue to implement the existing airport SWPPP. (TPDES Industrial Multi-sector Notice of Intent Attached in Appendix G of SWMP).         |
|                           |  | Start Date; Pre-2005<br>Status; On-schedule | *Collin County Airport continues to implement its TCEQ approved SWP3.<br><b>*Annual report and SWP3 amendment is included in Appendix G.</b> |