

City of McKinney

TPDES Storm Water Permit Number TXR040108



Second Permit Year Annual Report
August 13, 2008 – August 12, 2009

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City of McKinney Storm Water Management Program

Second Annual Report, August 13, 2008 – August 12, 2009

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



FRANK RAGAN, City Manager

November 10, 2009

Date

By Rick Chaffin, Deputy City Manager
and authorized signatory

FRANK RAGAN
(Name Printed)

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November 10, 2009

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 Second 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.

A separate Notice-Of-Change (NOC) has been submitted based on changes proposed for the Third Permit Year.

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;

CITY OF McKinNEY

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

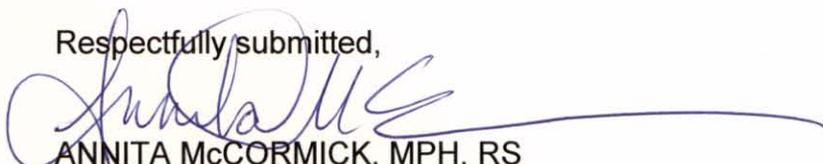
Jaya Zyman-Ponebshek, Team Leader
Texas Commission on Environmental Quality
Storm Water & Pretreatment Team; MC – 148
November 10, 2009
Page Two

- (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.

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,



ANNITA McCORMICK, MPH, RS
Storm Water Management Specialist

AM/s-ms

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

A. Overview

1. General information

Permit No. TXR040108

Annual Report Period: August 13, 2008 – August 12, 2009

Name of MS4 / Permittee: City of McKinney

Contact Person: Annita McCormick, MPH, RS

Title: Storm Water Management Specialist

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

Mailing Address: PO Box 517, McKinney, TX 75070

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 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 entity, 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 implemented two non-NOC requiring procedural BMP changes during the second permit year. One NOC required modification for permit year three is proposed as well. The BMP minor modifications implemented during the second permit year include changes to the Dry Weather Screening Parameters/Procedures which were developed the first permit year. The NOC required modification pertains to signature authority.

The two non-NOC required changes to McKinney's SWMP involved procedural modifications of BMP 3.1 Dry Weather Screening developed in the first permit year. The BMP itself and associated goals were not changed. Under MCM "Illicit Discharge Detection and Elimination", BMP 3.1 "Dry Weather Screening", Dry Weather Screening Parameters/Procedures were changed from (modification 1);

"No inspections will be conducted within 72 hours of a rainfall event."

to;

"No inspection will be conducted within 48 hours of a rainfall event >0.1 inches."

and (modification 2);

"The DWS program will utilize a LaMotte Smart2 Colorimeter to analyze grab water samples from outfall flows for the following parameters:"

to;

"The DWS program will utilize a LaMotte Smart2 Colorimeter and/or LaMotte Storm Drain kit to analyze grab water samples from outfall flows for the following parameters:"

The first modification was made in an effort to be more 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 our program.

The second modification was made due to inaccurate readings that occurred with the LaMotte Smart2 Colorimeter. To enhance field reading accuracy the LaMotte Storm Drain kit was used in conjunction with the LaMotte Smart2 Colorimeter. Additional information regarding the LaMotte Smart2 Colorimeter errors may be found in Section C, item 7b, page 10.

A SWMP change proposed for the third permit year includes a change in the signature authority. The term of former signature authority, Mayor Bill Whitfield, ended in June, 2009. A NOC form has been submitted to TCEQ notifying them that the signatory authority of the SWMP and future annual reports will be City Manager, Frank Ragan. As the City Manager, Mr. Ragan is appointed as the chief executive officer of the City therefore a designated signatory authority.

2. Description of newly annexed land

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

3. Impaired or TMDL status of receiving body of water

The receiving bodies of water are not listed as impaired and a Texas Maximum Daily Load (TMDL) has not been established.

4. Analytical monitoring of storm water quality

The City of McKinney initiated its Dry Weather Screening Program during the second permit year. Additional information regarding monitoring data collected as part of the Dry Weather Screening Program can be found in Section C, item 7b, page 10.

C. Implementation Narrative

1. Permit Condition Compliance Status

To date, McKinney has met all the conditions as set forth by the 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 has drafted and submitted to TCEQ an appropriate Storm Water Management Program (SWMP).

The Best Management Practices (BMPs) scheduled for the second permit year were either initiated prior to general permit issuance or during the second permit year. All second year BMPs were implemented prior to end of second permit year as required by McKinney's submitted SWMP with the exception of BMP 1.11.

The second year measurable goal of BMP 1.11, Partnerships for McKinney was to "distribute educational material to local businesses a minimum of 1 time". The "Partnership" determined in December 2008 that educational material would be tailored to food establishments. Through internal development of the educational material it was determined that available artwork designed by another municipality would be used. Early requests for permission received no response. However, this was the format desired and repeated requests finally gained permission and a copy of the artwork on August 12, 2009.

Due to the unforeseeable delays in designing the educational material, the "Partnership's" selected product could not be distributed to the specific commercial segment chosen within the second permit year. In an attempt to maintain compliance while awaiting response for use of the artwork, a flyer providing general information on McKinney's SWMP and pollution reduction tips for all business types was developed. On July 30, 2009, the flyer was delivered via e-mail to the McKinney Chamber of Commerce for distribution to local businesses. Due to personnel changes and a physical address change of the Chamber, it is unknown if this e-flyer went out to those businesses. The flyer was also delivered via e-mail to the McKinney Main Street program, which delivered the e-flyer to the representing downtown businesses.

The poster created per the "Partnership" has been received back from printing. Disbursement of the "Good Operating Practices for Food Handling Facilities" will begin in November, 2009.

The status of the specific second year BMPs for each respective Minimum Control Measure (MCM) is provided within the SWMP spreadsheet on pages 12-41. It should be noted that the spreadsheet includes information specific to the second permit year requirements only. This was done for annual report review

clarification. A summary of the storm water activities planned for the next (3rd) permit year are contained within section C, item 9, page 11.

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

As this annual report reflects information pertaining only to the second permit year, assessment of the appropriateness of BMPs is somewhat limited in scope. For example, it may be considered that education of construction site operators through violation notification has reduced the number of violations each quarter of the second permit year. However, this may also be a function of fewer construction starts. It may also be considered that the dramatic growth in interest and public involvement in the SWMP over the second permit year are indicators that the approved BMPs are appropriate.

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

A tool which should prove effective in future permit years assessment of BMP appropriateness is the dry-weather field screening component of McKinney's SWMP. The intent of this BMP is to provide a means to detect and eliminate illicit discharges, and identify locations requiring debris removal and/or repairs. An added benefit of this BMP is that it has begun a collection of base-line information to which future permit years dry-weather monitoring data may be compared.

Despite the limited time involving BMP implementation, McKinney staff believes that the BMPs selected are appropriate to meet the conditions of the general permit. Assessment consideration includes whether or not supporting evidence exists that any of the BMPs selected are inappropriate. To date, there is no supporting evidence that indicates the BMPs selected are inappropriate. 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)*

Progress toward reducing the pollutant discharge to the MEP can be tangibly demonstrated through the numbers provided through the McKinney Cleanup (BMP 2.5), Household Hazardous Waste Collection and Recycling (BMP 2.6), Storm Sewer Cleaning (BMP 6.1), and Street Sweeping (BMP 6.2) programs. Numbers for the McKinney Cleanup and Household Hazardous Waste Collection can be found in Appendix C 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 38 of the BMP status spreadsheets of this Annual Report.

The McKinney Cleanup program removed pollutants (floatables) from McKinney's MS4, while the Household Hazardous Waste Collection and Recycling Program prevented pollutants from entering the MS4. McKinney's Storm Sewer Cleaning and Street Sweeping programs also removed and prevented pollutants from entering the MS4. With continued and expanded public information the numbers of participants and amount removed for BMPs 2.5 and 2.6 should increase in future permit years. Although not listed as a BMP another measurement of preventing pollutants from entering the MS4 is the 2,565 resolved cases of 'trash and debris' enforced by the Code Department. Additionally, the Dry Weather Screening Program initiated in the second year will help focus efforts identifying locations requiring debris removal and further prevent pollutant discharge.

Intangible progress toward reducing the pollutant discharge to the MEP can be considered through the Sanitary Sewer Smoke Testing (BMP 3.2) and Spill Response (BMP 3.5) programs. 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. The number of responses to spill situations by the McKinney Fire Department is included on page 31 of the BMP status spreadsheet. While McKinney's SSES and spill response 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.

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

McKinney staff has implemented a permit-compliant, effective, and aggressive Storm Water Management Program. Rather than wait until TCEQ's preliminary decision to approve coverage of McKinney's MS4 under the TPDES General Permit No. TXR040000, McKinney staff elected to initiate and implement the SWMP BMP components consistent with the permit effective date. This was done in order to ensure that all components of the SWMP would appropriately be implemented in full by end of permit term.

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. Additional storm water staff has been

hired during the second permit year and will be an asset for meeting and exceeding goals in the ensuing permit years. Overall, the second year program accomplishments have reached beyond established measurable goals with the exceptions of BMP 1.11 (Partnerships for McKinney) as previously discussed in Section C, BMP 2.3 (Citizen's Advisory Committee), and BMP 4.5 (Receipt and Consideration of Information from Public). The two later BMPs are discussed below. A detailed evaluation of improvements made to these BMPs will be made in the third permit year.

In the first permit year the Citizen's Advisory Committee was merged with the Green Initiative Advisory Committee in order to consolidate efforts. Due to a change in the Green Initiative Advisory Committee's focus during the second permit year, it was determined that storm water information would no longer be included. In lieu of the Green Initiative Advisory Committee meeting, the public meetings conducted with BMP 2.2 (Public Meetings) were used to solicit input on McKinney's Storm Water Management Program. Efforts will be made in the third permit year to form a Citizen's Advisory Committee specific to BMP 2.3 that will provide current information on McKinney's SWMP and storm water in general in order to solicit feedback.

In the first permit year it was determined that the existing City-wide system, Naviline, would be used to receive, consider, and track comments from the public regarding the City's erosion control program, and for specific project related complaints (BMP 4.5). Implementation was scheduled during the second through fifth permit year. However the maintenance agreement with Sungard Public Sector, provider of Naviline was cancelled. Therefore, the system originally scheduled to be used for receipt and tracking is no longer viable. Currently, comments and complaints concerning erosion control are forwarded to the Building Inspections Department and subsequently dispersed to the appropriate Erosion Control Officer. The Erosion Control Officers log the complaints as well as the appropriate response. Additionally, the Code Enforcement Department had been tracking and responding to erosion and illegal dumping complaints until termination of Naviline. Another City-wide system is currently being evaluated by McKinney officials but may not be available during the next permit years. Therefore, alternative tracking means are currently under consideration and will be fully developed in the third permit year to receive, consider, and track comments from the public.

Although three BMPs require improvement, 93% were accomplished of which 40% exceeded the second year goals. Therefore, McKinney staff considers that the Storm Water Management Program's second year progress is 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 three 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, Texas received 38 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 measures (MCM)

The second permit year measurable goals and progress for each MCM are included within the spreadsheet on pages 12-41.

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

Minimum Control Measures		Page
1.	Public Education and Outreach on Storm Water Impacts	12
2.	Public Participation and Involvement	25
3.	Illicit Discharge Detection and Elimination	28
4.	Construction Site Runoff Control	33
5.	Post Construction Storm Water Management in New-Redevelopment	35
6.	Pollution Prevention/Good Housekeeping for Municipal Operators	37
7.	<i>Optional- Municipal Construction Activities</i>	NA

It should be noted that the spreadsheet included herein originates from the approved SWMP, but is specific to the Second 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.

Table 2. Year 2 MCM progress spreadsheet example.

MCM 1. Public Education and Outreach on Storm Water Impacts

Residents			
Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 1.5 Storm Water 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 Status; Beyond Stated Goals	For school year 2008-2009 McKinney provided 30,000 book covers with storm water information to MISD. MISD has a current enrollment of approximately 23,276 students.

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 initiated BMP 3.1, the Dry Weather Screening program 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 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 second permit year (August 13, 2008 – August 12, 2009).

	%Required	%Completed	%Complete
“Major Outfall” screened	80	93	116.25%

The screenings detected two suspected illicit discharges of which field staff was able to trace back to the source. The source of each 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 water samples. The inconsistency of the LaMotte Smart 2 Colorimeter was discovered mid-way through the Dry Weather Screening Program. The

inaccurate readings were due to poor calibration or unclean optics in the light chamber resulting in incorrect ratios of light absorbance for detergents and phenols. An alternate kit, LaMotte Storm Drain kit, was used mid-way to screen outfalls for detergents and phenols. Maintenance on the LaMotte Smart 2 Colorimeter has been scheduled and shall be back in use for the third permit year. Additional information regarding the LaMotte Smart2 Colorimeter errors may be found in Appendix C.

8. *SWMP modifications and revisions*

SWMP modifications and revisions for the second and third 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 third permit year that have not been described in this report may be found in Appendix H of this Annual Report. The activities included are those planned to be initiated in year 3 and do not include BMPs in McKinney's SWMP which were initiated prior to, but scheduled to continue in, year 3 and subsequent years. 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 3 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 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. * Make inserts available at the City's public library.</p>
		<p>Start Date; August 2007 Status; Beyond stated goals</p>	<p>*A utility bill insert providing information on McKinney's SWMP was mailed April 2009 to 40,000 McKinney residents. *250 utility bill inserts were made available at the public library beginning May 2009 * In addition to the above required efforts, McKinney staff participated in 10 community events at which storm water information was distributed to at least 1,500 residents and visitors. There was one McKinneyInfo.mag issue which provided information on McKinney's Storm Water Management Program. This publication was sent to 52,801 households and businesses. Information on McKinney's Storm Water Management Program was also included in the Utilities 2009 Water Quality Report which was mailed to 40,000 McKinney residents. *The utility bill insert, summary of community events and Sustainability brochure distributed, McKinneyInfo.mag issue, and 2009 Water Quality Report are available in Appendix B of this Annual Report.</p>

Public Education and Outreach on Storm Water Impacts

Residents			
Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 1.2 Texas SmartScape 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	* Implement distribution plan for bookmarks or SmartScape promotional materials. Track numbers distributed. * Make bookmarks or promotional materials available at public library. * Provide a link from McKinney's storm water website (after development) to the Texas SmartScape website.
		Start Date; February 2008 Status; Beyond stated goals	*McKinney obtained remaining 375 Texas SmartScape bookmarks from NCTCOG in May, 2009. Additional bookmarks will be obtained in Year 3. *Distributed 375 Texas SmartScape bookmarks to public library beginning August, 2009. *A link from McKinney's website to the Texas SmartScape website was provided on May 4, 2009. According to NCTCOGs activity report 309 residents visited Texas SmartScapes. *Additionally, 5 people from McKinney attended a Texas SmartScape Train-the-Speaker class on February 17, 2009 and are qualified to speak about Texas SmartScape to groups in their communities. *The copy of bookmarks and webpage with link are included in Appendix B of this Annual Report.
BMP 1.3 "McKinney Cares" Storm Water Web Site	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.	Year 2	* Web site up and running.
		Start Date; August 2003 Status; Completed	*Storm water web site for the city was further developed on May 4, 2009 to include specific information on McKinney's SWMP, SWM Ordinance, Storm Water Manual, Stream Bank Stabilization Manual and links to TPDES, TCEQ, Texas SmartScapes, utility bill insert referenced in BMP 1.1, and video referenced in BMP 1.8. *Information from the webpage is included in Appendix B of this Annual Report.

Public Education and Outreach on Storm Water Impacts

Residents			
Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 1.4 "Seeds for Thought" Classroom Education	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.	Year 1 - 5	* Discuss City's Phase II storm water education goals with MISD. * Provide information on available storm water educational material to MISD.
		Start Date; Pre-2007 Status; Beyond stated Goals	*McKinney Office of Environmental Sustainability (OES) staff meet with over 125 MISD staff at the Environmental Kick off on September 22, 2008 and New Teacher Breakfast on August 12, 2009 to present and discuss storm water information. *McKinney OES staff presented various lessons on water conservation, recycling, and litter including "Incredible Journey" from Project WET to MISD students during the 2008-2009 school year, campers at City of McKinney Hoot and Holler summer camp, City of McKinney Boy Scouts, Daisy Troops and various preschools. Approximately 72 lessons were presented to over 2,000 kids. *McKinney staff and MISD staff completed Texas Stream Team Volunteer Monitoring Training in July 2009. MISD staff is scheduled to implement volunteer stream monitoring during the 2009-2010 school year. *Lesson summaries are included in Appendix B of this Annual Report.

Public Education and Outreach on Storm Water Impacts

Residents			
Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 1.5 Storm Water Book 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 Status; Beyond Stated Goals	*McKinney has been providing storm water related book covers to MISD since 2004. For school year 2008-2009 McKinney provided 30,000 book covers with storm water information to MISD. MISD has a current enrollment of approximately 23,276 students. *A copy of the most recent book cover is included in Appendix B of this Annual Report.
BMP 1.6 "Stencil Town" 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 Status; Beyond stated Goals	*McKinney Streets staff installed 778 markers, McKinney volunteers installed approximately 146 markers, totaling 924. This translates to 27% of storm drain inlets marked. *McKinney General Notes were amended to include requirement that developers and contractors would be responsible for marking new inlets beginning September 2008. Inlet marking for developer and contractors shall be enforced upon completion for projects whose plans were submitted and reviewed after September 2008. In the Second Permit Year there were not any completed projects whose plans were submitted and reviewed after September 2008. *A copy of the inlet marker and McKinney General Notes is included in Appendix B of this Annual Report.

Public Education and Outreach on Storm Water Impacts

Residents			
Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
<p>BMP 1.7 "Public Reference"</p>	<p>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.</p>	<p>Year 1 - 5</p>	<p>* Provide copies of educational materials at the Public Library. * A description of the materials made available at the public library will be included in the Annual Report</p>
		<p>Start Date; March 2008 Status; Complete</p>	<p>*A complete copy of the SWMP, First Permit Year Annual Report and Second Permit Year Annual Report including all educational material is available at the library for residents or visitors. *An environmental sustainability display including storm water information was set up at McKinney's Public library during the month of March. The display included materials with information on point, non-point pollution as well as educational flyers that were distributed. *Additionally, McKinney Office of Environmental Sustainability staff gave a presentation at McKinney's Public library on April 11, 2009 covering water conservation, recycling, and litter.</p>

Public Education and Outreach on Storm Water Impacts

Residents			
Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
<p>BMP 1.8 Storm Water video</p>	<p>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.</p>	<p>Year 2 - 5</p>	<p>* Air a minimum of three storm water educational videos, developed or acquired by the City, on the City's public access channel. * Provide copies of videos to Public Library</p>
		<p>Start Date; Summer 2007 Status; Beyond stated goals</p>	<p>*McKinney's government access TV station, McKinney Vision, produced a second storm water video, Clean Water, that aired on its channel in Jan. 2009. The 2:21 long video aired 124 times during the month of January. *McKinney's government access TV station, McKinney Vision, produced a third storm water video, Clean Storm Water Systems, that aired on its channel in May 2009. The 2:94 long video aired 124 times during the month of May. *McKinney's government access TV station, McKinney Vision, filmed a fourth storm water video, Stencil Town, that is currently in production and will air during the third SWMP permit year. *A copy of McKinney Vision storm water videos aired are included in Appendix B of this Annual Report.</p>

Public Education and Outreach on Storm Water Impacts

Visitors			
Best Management Practices	BMP Descriptiopn	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 Descriptiopn	Implementation Schedule	Measurable Goals
<p>BMP 1.9 City Employee 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. * Provide educational material on the City's intranet.</p>
		<p>Start Date; May 2008 Status; Beyond Stated Goals</p>	<p>*On May 1, 2009 pay check stuffers were provided to 882 City of McKinney employees. The stuffer provided information on McKinney's SWMP and pollution reduction tips. *The information provided in the pay check stuffer was placed on McKinney's intranet. A link to the information is still available on the webpage and will be updated during the permit term. *McKinney staff participated in the City of McKinney employee vendor fair on March 25, 2009 at which storm water information was distributed to 100 employees. *Additionally, 3 'Green Team' meetings for McKinney department heads/staff were held to introduce City of McKinney's sustainability plan, including storm water management, tour 'Green' buildings with their BMPs, and discuss existing and future programs. Meetings occured on February 12, 2009, March 6, 2009, and April 2, 2009 and were attended by 25 employees. *A copy of the pay check stuffer and intranet link is included in Appendix B of this Annual Report.</p>

Public Education and Outreach on Storm Water Impacts

Public Service Employees			
Best Management Practices	BMP Descriptiopn	Implementation Schedule	Measurable Goals
<p>BMP 1.10 Education For 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. * Provide educational material on the City's intranet.</p>
		<p>Start Date; November 2007 Status; Beyond Stated Goals</p>	<p>*McKinney City Council received educational material and status information at 7 meetings. *Educational material has been provided on the City intranet as indicated in BMP 1.9 above. *A summary of City Council meeting dates, updates and agendas is included in Appendix B.</p>

Public Education and Outreach on Storm Water Impacts

Businesses			
Best Management Practices	BMP Descriptiopn	Implementation Schedule	Measurable Goals
BMP 1.11 Partnerships for McKinney	Develop a partnership program for providing educational material to McKinney's businesses.	Year 2	* Distribute educational material to local businesses a minimum of 1 time.
		Start Date; August 2007 Status; Needs Improvement	*During the Second Permit Year through meetings and e-mailings with the Storm Water Partnership, comprised of McKinney businesses from the McKinney Chamber of Commerce and McKinney staff, it was determined that educational material would be tailored to food establishments. Design on the poster began May 2009. Distribution of the food establishment Storm Water poster began November 2009. *While the food establishment Storm Water poster was being designed a flyer providing information on McKinney's SWMP and pollution reduction tips for all business types was distributed to 135 commercial and industrial businesses via e-mail through the McKinney Main Street distribution list in November 2009. *Storm Water Food Establishment poster and General Business flyer is included in Appendix B of this Annual Report.
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 Descriptiopn	Implementation Schedule	Measurable Goals
BMP 1.12 Commercial and Industrial Education	Develop a partnership program for providing educational material to McKinney's commercial and industrial businesses.	Year 2	* Distribute educational material tailored to local commercial and industrial businesses a minimum of one time. * Continue e-mail distribution as appropriate. * Track number of storm water related communications
		Start Date; August 2007 Status; Beyond stated Goals	*McKinney staff distributed storm water information to over 800 local employees at Raytheon's Earth Day event on April 21, 2009, Old Navy employees Earth Day on April 20 & 23, 2009, and McKinney Habitat for Humanity, Collin County Juvenile Detention and McKinney JOB Corps on May 15, 2009. *Additionally, educational material has been distributed to local, commercial and industrial business as indicated in BMP 1.11 above. *Distributed material and communications is included in Appendix B under BMP 1.1 and 1.11.
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 Descriptiopn	Implementation Schedule	Measurable Goals
BMP 1.13 City Inspector Training	Train City construction site erosion control inspectors.	Year 1 - 5	* Provide a minimum of 8 hours of construction site erosion control training to inspection personnel at least once every three years. * 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. * Track training hours and number of attendees.
		Start Date; August 2007 Status; Ahead of schedule	*Three hours of construction site storm water/erosion control training attended by 10 McKinney inspection personnel was provided for inspection personnel during the First Permit Year. *On October 6, 2008, 8 McKinney inspection employees attended 8 hours of erosion control training provided by SEH, Inc., in South Lake, Texas. This training is intended to provide CESSWI certification once the examination is taken and passed. *Five McKinney inspection personnel completed a minimum of 5 hours of Dry Weather Field Screening parameter and procedure training provided internally. *There were no new inspection employees hired during the Second Permit Year. *A new Storm Water Management Specialist was hired during the Second Permit Year and attended 16 hours of Storm Water Management: Permitting and Regulatory Overview training conducted by TEEX within 6 months of start date.

Public Education and Outreach on Storm Water Impacts

Construction Site Personnel			
Best Management Practices	BMP Descriptiopn	Implementation Schedule	Measurable Goals
BMP 1.14 Developer/Builder/ Engineer Education and Training	Provide educational material to the development community and offer training opportunities.	Year 2 - 5	* Provide educational material annually to builders, developers, and engineers that are active in McKinney. * Provide developers, builders, and engineers that are active in McKinney with construction site erosion control training at least once every 2 years. * Track training hours and number of attendees.
		Start Date; August 2007 Status; Ahead of schedule	*A flyer providing information on McKinney's SWMP and pollution reduction tips was distributed to 65 Developers, Contractors, Builders, and Engineers via e-mail through a group distribution list created by the Engineering Department. *Three hours of construction site storm water/erosion control training attended by 42 developers, builders, and engineers was provided during the First Permit Year. *The flyer is included in Appendix B of this Annual Report.

Public Participation and Involvement

Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 2.1 "Stencil Town" Storm Drain Marker 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. *Track the number of groups, individuals, and markers placed by these groups.
		Start Date; July, 2009 Status; Beyond stated Goals	*McKinney's First Storm Water Inlet Marking (SWIM) event was held on July 25, 2009. Prospective participants were acquired through a posting on McKinney's Volunteer website, http://www.volunteermckinney.org and a radio spot on KNTU. The event information was also posted on the Lone Star Boy Scout District and United Way websites. *20 volunteers from the local businesses Olive Garden and Raytheon along with a local Boy Scout Troop formed 5 teams and installed approximately 146 markers. *In addition to the above required efforts, Volunteers distributed 173 door hangers with storm water information to residents near the newly marked storm drain inlets. *A copy of the internet posting, KNTU radio spot, and door hanger is included in Appendix C of this Annual Report.
BMP 2.2 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. * Advertise and conduct the meetings in accordance with local and state public notice requirements.
		Start Date; November 2007 Status; Beyond stated Goals	*Fifteen public meetings were conducted during the permit year. *Meetings were conducted and advertised in accordance with local and state public notice requirements. *A summary of public meetings is included in Appendix C of this Annual Report.

Public Participation and Involvement

Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 2.3 Citizen's Advisory Committee	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.
		Start Date; August 2007 Status; Needs Improvement	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. McKinney's previously established community meetings listed in BMP 2.2 were used to solicit input until the alternative committee has been formed.
BMP 2.4 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. * Advertise the hotline's existence through various Public Education BMP's as appropriate.
		Start Date; August 2007 Status; Beyond stated Goals	*Continued to use existing hot-line for non-life threatening emergencies, 972-547-7350, which is available 24/7. *Continued to implement existing hot-line procedures for taking, tracking, assigning, and investigating. *Dedicated storm water hotline was advertised through utility bill inserts referenced in BMP 1.1, storm water website referenced in BMP 1.3, employee paycheck stuffers referenced in BMP 1.9, commercial and industrial e-mail in BMP 1.12, Developer/Builder/Engineer e-mail in BMP 1.14, and "Stencil Town" door hanger referenced in BMP 2.1.

Public Participation and Involvement

Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 2.5 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 Status; Beyond stated Goals	*The existing "McKinney Clean-up" program was continued during the second Permit year. *During the second permit year McKinney sponsored two events; Rebuilding Neighborhoods Clean-Up and McKinney Texas Trash Off, on May 16, 2009. *The groups involved and results are included in Appendix C of this report.
BMP 2.6 Household Hazardous Waste Collection and 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. * Update the household hazardous waste collection and recycling program to reflect any necessary changes as determined in the evaluation.
		Start Date; Pre-2004 Status; Complete	*The existing Household Hazardous Waste and recycling program was continued during the second Permit year. *Results of the collections are available in Appendix C of this Annual Report.

Illicit Discharge Detection and Elimination

Illicit Discharges			
Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 3.1 Dry Weather Screening	Conduct dry weather screening of major storm water outfalls.	Year 2 - 5	<ul style="list-style-type: none"> * Conduct dry weather screening procedures developed in First Permit Year. * Dry weather screen no fewer than 80 major outfalls per year
		Start Date; June 2009 Status; Ahead of Schedule	<ul style="list-style-type: none"> *93 "major outfalls" were selected for the dry weather screening. *The results and supporting documentation are included in Appendix D of this Annual Report.
BMP 3.2 Sanitary Sewer 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	<ul style="list-style-type: none"> * Conduct sanitary sewer smoke testing as a part of the City's on-going Sanitary Sewer Evaluation Study (SSES) program. * 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 Status; Complete	<ul style="list-style-type: none"> *McKinney's SSES program continued through the Second Permit Year. *The results of this program during the Second Permit Year time frame are included in Appendix D of this Annual Report.

Illicit Discharge Detection and Elimination

Illicit Discharges

Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 3.3 Illicit Discharge Investigation	Conduct investigations to determine the source of illicit connections and illegal dumping activities.	Year 2 - 5	* 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. * Track number of investigations performed.
		Start Date; August 2007 Status; Continuing	*Four discharges were reported through the Hotline. All were eliminated and resolved by Streets. Smoke testing discovered 990 defects. To date Streets has repaired 241 of the defects. Video camera testing discovered 330 defects, as a result Streets has replaced 2,500 ft of mains. Dry Weather Screening identified 2 possible illicit discharges that were later discovered to be allowable discharges. Four sanitary overflows totalling 18,500 gallons were eliminated through the removal of debris in the lines. *Streets department reviewed 8,458 feet of storm sewer lines using a high resolution video camera.

Illicit Discharge Detection and Elimination

Illicit Discharges			
Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 3.4 Elimination of Illicit 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 Status; Continuing	*BMP 3.3 summarizes discharges eliminated. *A Notice of Violation letter has been established and implementation has begun in the third permit year. *The procedure to establish Storm Water ordinance citations (escalated enforcement action) has been initiated.
BMP 3.5 Spill Response	Continue implementation of existing spill response procedures and training.	Year 1 - 5	* Continue implementation of existing spill response procedures and training. * Track number of responses to spills / Hazmat incidents. * Track the number of training hours for appropriate employees.
		Start Date; Pre-1999 Status; Beyond Stated Goals	*McKinney Fire Department continued to implement its' existing spill response procedures and training. *During the Second Permit Year the McKinney Fire Department responded to 180 spills/HazMat incidents. None of the spills/incidents responded to included level A materials. The majority of the responses involved fuel spills on roadways. *HazMat training for this Permit year included a 3-hour HazMat decon scenario drill conducted in May 2009 as part of the monthly ISO training completed by 100 members = 300 total HazMat training hours. *23 McKinney staff representing Public Works and Engineering completed 8 hours of Hazardous Materials Awareness training on April 14, 2009. *Additionally, 32 members completed 24 hours HazMat training hours through TEEX in September 2009.

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 Storm Sewer 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; Status; Complete	A map of the First Permit Year added outfalls is included in Appendix D of this Annual Report.
BMP 3.8 Update Storm Sewer 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. * Track number of outfalls added to storm sewer outfall map.
		Start Date; Pre-2002 Status; Complete	*McKinney continues to require developer to provide information on all newly constructed storm sewer. This information is then added to the appropriate layer in McKinney's GIS. *Within McKinney's incorporated limits 146 outfalls were added during the Second Permit year. 46 of these outfalls were located within the McKinney UA. A map of the Second Permit Year added outfalls is included in Appendix D of this Annual Report.

Construction Site Runoff Control

Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 4.1 Controlling 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 Requirements for Construction Site Contractors		BMPs 4.1-4.4 Start Dates; Pre-2003 Status; Complete	*McKinney's Storm Water ordinance was amended in order to become compliant with new Federal Emergency Management Agency (FEMA) requirements, including modification to, and addition of, certain definitions, revision of effective date, minor modification of certain sections and clarification of various section references to the McKinney Storm Water Manual. *Amendments were approved May 19, 2009 and became effective May 24, 2009. *Amended ordinance is included in Appendix E of this Annual Report.
BMP 4.3 Site Plan Review			*McKinney staff are reviewing and requesting input from stakeholders in order to update the McKinney Storm Water Manual. The revisions will be based on current hydrologic information and North Central Texas Council of Government's (NCTCOG) iSWM™ (integrated storm water management) recommendations. *Language was amended in the McKinney General Notes requiring construction projects to comply with the iSWM™ Design Manual for Construction.
BMP 4.4 Site Inspection and Enforcement			118 Site plans were submitted and reviewed between August 2008 and August 2009. Each plan review included consideration of pre and post project drainage aspects as well as erosion control plan details. Results of site inspection enforcement are included in Appendix E of this Annual Report.

Construction Site Runoff Control

Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 4.5 Receipt and Consideration of Information from 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 Status; Needs Improvement	All erosion control complaints or comments are received and investigated by Erosion Control Inspectors. The system originally scheduled to be used in the first permit year is no longer available. Another city-wide system is currently being evaluated by McKinney officials. Until the new system is made available alternative efforts will be developed in year 3 to receive, consider, and track comments from the public.
BMP 4.6 Review Erosion and Sediment Control Program	Review the effectiveness, appropriateness, and cost-effectiveness of the existing erosion control program.	Year 2	* Adopt any recommended First Year Permit changes for the existing erosion control manual.
		Start Date; August 2007 Status; Complete	*Began development of a vegetation policy in response to comments that the erosion control manual was not clear concerning temporary and permanent vegetation for completed projects. *McKinney's amended Erosion Control Manual was made available on the storm water webpage. Amendments were made during the first permit year with regards to NCTOG iSWM chapter 4 (BMPs) incorporation.

Post-Construction Storm Water Management in New Development/Redevelopment

Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 5.1 <i>iSWM</i> [™] Design Manual Development & Implementation	Review North Central Texas Council of Governments' integrated Storm Water (<i>iSWM</i> [™]) 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> [™] Design Manual throughout permit term or until fiscal support is not longer required.
		Start Date; Pre-2007 Status; Continuing	*McKinney continues to contribute to financially and support all NCTCOG <i>iSWM</i> [™] programs. *Letters of Commitment are included in Appendix F of this Annual Report.
		Year 2 - 3	* Review, assess, and adopt the regional <i>iSWM</i> [™] Design Manual in part or in whole, as or if deemed appropriate.
		Start Date; July 2008 Status; Continuing	*McKinney staff are reviewing and requesting input from stakeholders in order to update the McKinney Storm Water Manual. The revisions will be based on current hydrologic information and NCTCOG's <i>iSWM</i> [™] (integrated storm water management) recommendations.
BMP 5.2 Engineering Design 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 Status; Continuing	*118 Site plans were submitted and reviewed between August 2008 and August 2009. 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.

Post-Construction Storm Water Management in New Development/Redevelopment

Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 5.3 Land Use Plan	Continue to utilize the City's existing land use plan.	Year 1 - 5	*Continue implementing existing land use plan. *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 Status; Continuing	*McKinney continues to periodically evaluate and consider amendments to the existing land use plan in pursuit of enhanced environmental and storm water management practices. *No amendments were made during the Second Year permit.

Pollution Prevention/Good Housekeeping for Municipal Operations

Good Housekeeping			
Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 6.1 Storm Sewer 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. * Clean system as needed in response to complaints or reported problems.
		Start Date; Pre-2002 Status; Continuing	*Visual inspections are performed by Streets and tracked by GIS quarterly. *Streets staff inspected 8,360 storm sewers, 1,555 feet were cleaned including inlets and outfalls. 1,000 tons were removed. 10.24 miles of drainage ways were maintained. *Dry Weather Screening identified 20 outfalls requiring maintenance or debris removal due to enough restriction to result in overflow. Streets have addressed 9 of the outfalls identified. *Complaint response information is included in BMP 3.3.
BMP 6.2 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 Status; Complete	*1,080 miles of street were swept, 1,796 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 Herbicide Management	Continue existing herbicide management program.	Year 1 - 5	* 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. * Track training and licensure as required.
		Start Date; Pre-2002 Status; Complete	*A description and status of Year 1 goals can be found in the First Annual Report. *McKinney has a 5 TDA (Texas Department of Agriculture) Certified Non Commercial Licensed Applicators. During the Second Permit Year all 5 applicators received their respective Continuing Educational Credits through the Texas Agrilife Extension Service. *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. *All chemicals are securely stored and properly marked.
BMP 6.4 Pesticide Management	Continue existing pesticide management program.	Year 1 - 5	* 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. * Track training and licensure as required.
		Start Date; Pre-2002 Status; Complete	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 Safe Material Storage	Continue existing material storage management practices.	Year 1 - 5	<ul style="list-style-type: none"> * Continue McKinney's existing material storage practices. * Perform inspections of material storage facilities annually. * Include any inspection based changes in the annual report.
		Start Date; Pre-2004 Status; Complete	<ul style="list-style-type: none"> *McKinney's Environmental Waste division of Public Works continues to implement existing material storage practices. *An inspection of the materials storage facility was conducted on August 7, 2009. The storage facility is equipped with secondary containment and properly ventilated. *Inspection report and associated photographs can be found in Appendix G of this Annual Report.
BMP 6.6 Fleet Service Center BMPs	Review existing fleet service center operations and infrastructure. Develop and implement structural and non-structural controls.	Year 2 - 5	<ul style="list-style-type: none"> * Develop a storm water management plan, including an implementation plan for structural and non-structural controls.
		Start Date; July, 2009 Status; Ahead of Schedule	<ul style="list-style-type: none"> *Development of a storm water management plan began with a detailed inspection of the fleet center operations and infrastructure conducted on August 7, 2009. Any issues of concern pertaining to storm water exposure or potential discharge were noted, corrected and will be included in an implementation plan for structural and non-structural controls. *Inspection report and associated photographs can be found in Appendix G of this Annual Report.

Pollution Prevention/Good Housekeeping for Municipal Operations

Training			
Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 6.7 Employee Training	Add good housekeeping and pollution prevention training to existing operations (Streets/Public Works) employee training programs.	Year 2 - 5	<p>* Add the new training module to existing street department and public works department training programs.</p> <p>* Train all new operations employees within six months of the employee's start date.</p>
		Start Date; August 2004 Status; Complete	<p>*There were no new Streets/Public Works employees hired during the Second Permit Year.</p> <p>*8 Public Works/Streets staff watched NCTCOGs <i>Preventing Storm Water Pollution: What Can We Do</i> video in October 2008.</p> <p>*8 Public Works/Streets staff completed the <i>Design of Gabion Walls and Mattresses</i>, a 3-hr training presented by Craig Olden, Inc. in October 2, 2008.</p>

Pollution Prevention/Good Housekeeping for Municipal Operations

Industrial Activities			
Best Management Practices	BMP Description	Implementation Schedule	Measurable Goals
BMP 6.8 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 Status; Complete	*Collin County Airport continues to implement its TCEQ approved SWP3. *Quarterly reports as well as a public information storm water pamphlet are included in Appendix G.

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