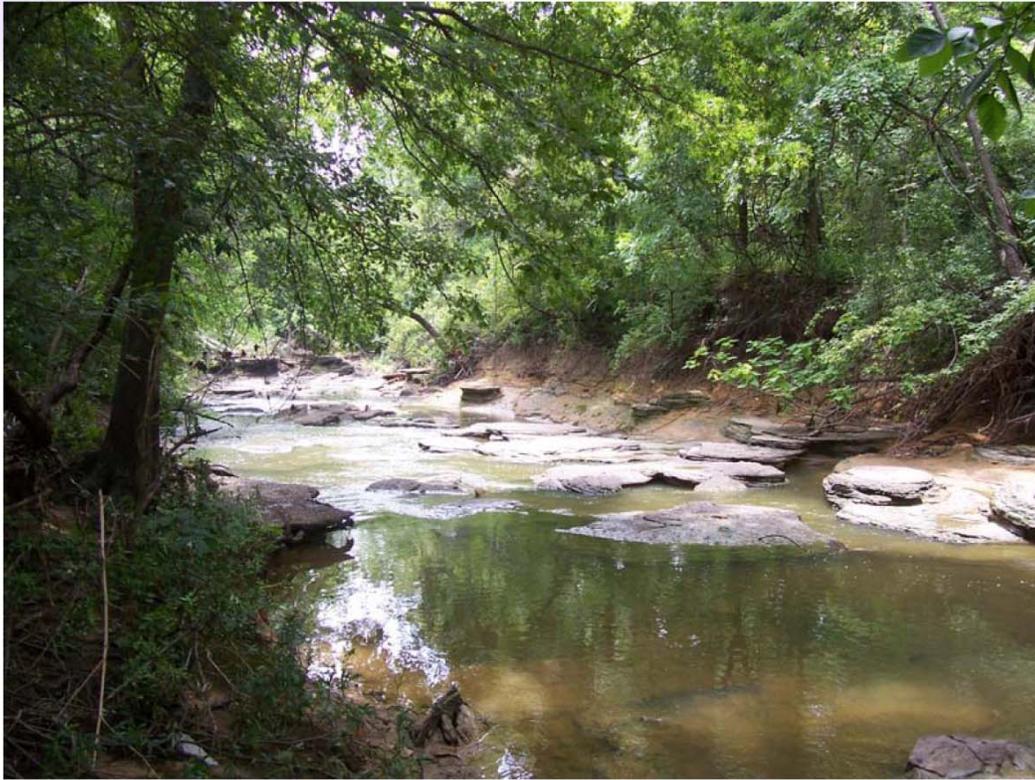


# Grand Prairie

— T E X A S —



## City of Grand Prairie &

Dallas County Flood Control District #1

## TPDES Phase II Small MS4 General Permit Annual Report

Year 3: August 13, 2009 - August 12, 2010

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## List of Acronyms

BMP	Best Management Practice
CRP	Clean Rivers Program
DCFCDD	Dallas County Flood Control District #1
EPA	Environmental Protection Agency
ESD	City of Grand Prairie Environmental Services Department
GIS	Geographic Information Systems
HHW	Household Hazardous Waste
KGPB	Keep Grand Prairie Beautiful
MEP	Maximum Extent Practicable
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
NCTCOG	North Central Texas Council of Governments
NPDES	National Pollutant Discharge Elimination System
P2	Pollution Prevention
SIC	Standard Industrial Classification
SSO	Sanitary Sewer Overflow
SWMP	Storm Water Management Program
SWPP	Storm Water Pollution Prevention
SWP3	Storm Water Pollution Prevention Plan
TCEQ	Texas Commission on Environmental Quality
TPDES	Texas Pollutant Discharge Elimination System

## Part I. General Information

**Municipality/Permit #: City of Grand Prairie/ TXR040065**  
**District/Permit #: Dallas County Flood Control District #1/ TXR040255**

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**TPDES Permit #: TXR040000**

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**TCEQ NOI Form #: 20368**

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**Year 3 Reporting Period: August 13, 2009 – August 12, 2010**

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### **This report was prepared for and sent to:**

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

### **A copy of this report was sent to:**

Texas Commission on Environmental Quality  
Water Section; Attn: Sid Slocum  
2309 Gravel Drive  
Fort Worth, TX 76118-6951

## **Part II. Interlocal Agreement**

The City of Grand Prairie and Dallas County Flood Control District #1 (DCFCD) jointly submitted the Storm Water Management Program as described in an interlocal agreement approved by the aforementioned entities on February 5, 2008 (Appendix A). According to Part III of the General Permit, a permittee may enter into interlocal agreements with municipalities where the small MS4 is located in order to meet the goals of the permit if the permittee does not have enforcement authority and is unable to meet the goals of the general permit through its own powers. Approximately 20% of the DCFCD is located within the City of Grand Prairie boundaries; however, the DCFCD does not have enforcement capabilities. As a result, the City of Grand Prairie and DCFCD agreed to the joint submission of the SWMP where the DCFCD is solely responsible for only two (2) BMPs (BMP 6.10 and 6.11). The City of Grand Prairie is entirely responsible for all other BMPs described in the SWMP.

For the aforementioned reason, the City of Grand Prairie and DCFCD have jointly submitted this annual report.

### **Part III. Additional Information**

1. **No changes were made to or proposed for the SWMP in Year 3.**

**No changes are proposed for the SWMP for Year 4.**

Correspondence with the TCEQ regarding revisions made to the SWMP **following** NOI submittal and **before** submittal of the Year 1 annual report and TCEQ approval of the NOI and SWMP may be found in Appendix B. **These revisions were documented in the Year 1 annual report.**

2. The City of Grand Prairie and DCFCD has *not* annexed lands since obtaining permit coverage.
3. No receiving waterbodies were newly listed on the 2008 Texas 303(d) list as impaired for the MS4. The Crockett Branch (Segment 0841V/unclassified/5b) is newly listed on the draft 2010 Texas 303(d) list for bacteria.

*No* TMDLs have been established for the MS4.

4. The MS4 *has* conducted analytical monitoring of stormwater quality. See BMP 3.6 and BMP 3.17 for the discussion and summary of stream and lake monitoring results, respectively.

## Part IV. Narrative Provisions

### Status of the Compliance with Permit Conditions

The City of Grand Prairie and DCFCD have completed the required self-assessment and have determined that the City and DCFCD are in compliance with all permit conditions. The City and DCFCD 1) are currently in compliance with the SWMP as submitted to and approved by the TCEQ, 2) are in compliance with recordkeeping and reporting requirements, and 3) meet the eligibility requirements of the permit.

### Appropriateness and Effectiveness of Year 3 BMPs for Reducing Pollutants

Each of the Year 3 BMPs was assessed as appropriate. Table 1 describes the estimated level of effectiveness of all Year 3 BMPs as they relate to the reduction of the discharge of pollutants to the maximum extent practicable (MEP).

**Table 1: BMP Effectiveness and Progress Towards Reducing the Discharge of Pollutants to the MEP**

<i>BMP</i>	<i>Description</i>	<i>Effectiveness</i>	<i>Comment</i>
1.2	Clean Rivers on Web site	Low	Reaches only those perusing the City's stream monitoring Web site; however, once on the Clean Rivers site, citizens are able to better understand water quality issues
1.3	Lawn and Garden	Low	Reaches only those picking up brochure, perusing Web site, or seeking to understand SmartScape demonstration gardens, but increases awareness of alternative chemicals and benefits to planting native species
1.4	HHW Program	High	Encourages the proper disposal of hazardous waste and informs citizens of when and where they can dispose of waste
1.5	Don't Bag It	Moderate	Encourages a reduction in potential storm water contaminants such as fertilizers, insecticides and herbicides, while preserving valuable landfill space
1.6	Pet Waste	Moderate	Give-a-ways and brochures target the appropriate audience and encourage proper disposal of pet waste
1.7	H2O Line	Moderate	Reminds industrial facilities of reporting deadlines and gives them BMP information to increase compliance with industrial stormwater permit
1.8	Environmental Workshop	High	Surveys indicate that information helps facilities comply
1.9	Commercial/Industrial Floatables Education	Moderate	Educational materials discuss methods for reducing floatables. Reaches the appropriate audience as brochures are distributed during inspections, classes, workshops, and at the Development Center
1.10	Information for ARB	High	Compliance has increased significantly
1.11	School Curriculum	Low	Only one copy was distributed in Year 3.
1.12	Interactive watershed model	Low	Effective method of teaching the concept of a watershed; however, the model has limited outreach capabilities
1.13	Utility Bill Insert	High	This is the most widely read city publication
1.14	Stream/Watershed Road Signs	Low	This BMP is in the initial stages of being implemented. Two signs were installed in Year 3. Additional signs will be installed in Year 4
1.15	Multimedia Education	Moderate	Promotes watershed awareness to Grand Prairie citizens through creative video productions and through the City's Web site

1.16	Non-English	High	High population of only Spanish speaking citizens in Grand Prairie
1.17	Auto Watch	Moderate	Targeted information for automotive sector
1.18	KGPB Programs	High	Tons of trash and debris are removed from neighborhoods, streams, and creeks
1.19	Construction BMPs	Low	Reaches developers seeking out educational information
1.20	Visitor Education	Moderate	Web site visited by anyone with access to the internet. Brochures are available at the City's Visitor Center
1.21	Take Care of Texas	Low	Dependent upon those receiving information
2.1	Public Notice	Low	Not applicable
2.2	Texas Stream Team	High	Stream monitors sample at different locations than the City's stream monitoring locations. Data collected has the potential to reveal areas needing further monitoring, remediation, and/or enforcement
2.3	Master Composter	Moderate	Provides students with practical alternatives to over-applying fertilizer, potentially reducing the amount of excessive nutrients to local waterways
2.4	Drain Markers	Moderate	Increases awareness of the storm drain system to citizens and to those installing markers
2.5	Educational Event	High	Event focuses on stormwater issues and reaches hundreds of residents in one day
2.7	Illegal Dumping Hotline	High	City staff are made aware of polluted areas that they may have otherwise missed
2.8	Stakeholder Meetings	High	Citizens and City staff come together to make most appropriate decisions for SWMP
2.9	KGPB Programs	High	Includes residents, students, companies, civic groups, neighborhoods and churches in an effort to prevent litter and other pollutants from entering the stormwater system. Actively removes floatables from waterways.
2.10	Neighborhood Outreach	Moderate	Neighborhood associations are encouraged to form cleanup committees
2.11	School Outreach	High	Gets students and faculty involved in stewardship oriented activities, including Adopt-A-Stream cleanup efforts, storm drain marking projects, water quality monitoring programs and wetland education programs, resulting in the reduction of storm water pollutants
2.12	Corporate Involvement	High	This recognition based program has helped to remove pollutants from creeks and prevents polluting activities
2.14	Request for Drainage/Design Comments	High	Half Associates was contracted to review make recommendations on the drainage and design manual
2.15	HHW Events	High	Actively allows citizens to participate and dispose of HHW properly. 1,063 residents participated in the events in Year 3 and ~26,000 pounds of hazardous waste products were recycled
2.16	Annual Awards	High	Mandates storm water compliance to achieve recognition
2.17	ARB Mailing	Moderate	Increases ability to reach targeted audiences consistently
3.1	GIS MS4 Database	High	Map used to trace illicit discharges to water bodies. Field verification detects illicit discharges
3.2	Complaint database	Moderate	Tracks spills and creates historical information for assessment
3.3	Complaint response	High	Creates response mechanism. Incidents such as spills or sanitary sewer overflows are mitigated
3.4	Spill response	High	Abates pollutants and prevents them from entering streams
3.5	BPR Process	High	Mandates compliance prior to operation
3.6	Clean Rivers Program	High	Atypical results are investigated and mitigated
3.7	SSO Response	High	Ensures the protection of our waterways following an SSO

3.8	IDDE Education	Moderate	Stormwater BMP posters, brochures, and videos were used to target the appropriate audience
3.9	Stormwater Ordinance	High	Regulations and enforcement increases compliance
3.10	Industrial Inspection Program	High	Ensure TPDES compliance
3.11	Commercial/Industrial Floatables	Moderate	Enforcement helps to ensure compliance
3.12	Litter Collection	High	Approximately 86.1 tons of litter were collected in Year 3 and sent to the Grand Prairie Landfill. By preventing litter from remaining in the environment, both surface and groundwater are protected from potential contamination associated with it
3.13	Illegal Dumping Clean-up	High	Clean-up reduces potential pollutants
3.14	Floatables Assessment	Low	This BMP is in the initial stages. A floatables assessment was conducted in Year 3
3.15	IDDE	High	Detects illicit discharges which are then mitigated
3.16	Joe Pool Lake Sampling	Low	This BMP is in the initial stages. Sampling supplies were purchased in Year 3.
3.17	Beach Sampling Program	Moderate	Reduces health risks to citizens
3.18	Rapid Bioassessment Program	Low	This BMP is in the initial stages. A bioassessment plan was developed in Year 3.
3.19	On Site Sewage System Permitting	Low	Only one (1) permit was given and one (1) complaint was received in Year 3.
3.21	Auto Inspection Program	High	Enforcement and education encourages businesses to prevent pollutants from coming into contact with stormwater
4.1	Review Infrastructure Plans and Designs	High	Determines the effectiveness of the drainage and erosion control measures in plans and provides comments for revisions by the designer to reduce to the maximum extent practicable potential site specific erosion control concerns
4.2	Inspect Erosion Control Measures	High	Erosion control inspections are performed by City inspectors on a routine basis and are recorded in the database
4.3	Earthwork Permit	High	Prior to any land disturbing activity, all erosion controls must be in place according to the plan. By tracking the number of earthwork permits issued, the City monitors sites and maintains compliance before activities begin
4.4	Stormwater Pollution Prevention Plan During Construction	High	The City requires a Stormwater Pollution Plan in accordance with the regulatory authorities' permit process. A copy of the NOI is required before a permit is issued.
4.5	Complaint Response	High	City investigator ensures problem areas are brought back into compliance, thus reducing pollution runoff
4.6	Construction Ordinance	High	The Construction (Stormwater) Ordinance has been written, approved and adopted for use by the City Council, and is currently in practice
4.7	Site Development Plan Reviews	Moderate	The Site Development Plan Review process has been amended by city council to enhance storm water quality considerations and is being implemented by City staff

4.8	Recording and Public Complaint Response	High	The process for recording and public complaint response has been amended, staff has been fully trained and the amended process has been fully implemented
4.9	Redefine Construction Site Inspection Program	Moderate	The construction site inspection program was redefined. Compliance with the Stormwater Ordinance is ensured through the inspection program.
4.10	Construction Site Storm Water Public Education Program	Moderate	Links to storm water education are located on City web site, which include Construction General Permit and BMP information
5.1	Development Review Process	High	Review of plans is used for the mitigation of impact. The number of plans that have been approved reflect the impact on post construction runoff will be minimal to the detention areas as well as to floodplains associated with the site, if applicable. The review process may require several modifications of a drainage plan by the engineer to allow the BMPs to operate at the maximum extent practicable
5.2	Stream Buffer Preservation	High	The City strives to create structural controls that are multi-purpose, while realizing that each site, project, and watershed presents different challenges and opportunities. The City encourages the preservation of natural hydrology and drainage ways and the reduction of impervious cover. The goal is to make efficient use of the natural features of the sites to prevent stormwater impact at the maximum extent practicable
5.3	Storm Water Design Criteria and Methods	Moderate	Policies and design criteria that integrate considerations for drainage and water quality were adopted and implemented in Year 3.
5.4	Revise Policies and Design Criteria in Unified Development Code	High	Revisions to the UDC were adopted and implemented in Year 3; revisions support water quality objectives.
5.5	Long term operation and maintenance of BMPs	Moderate	40 post construction BMP inspections were performed in Year 3. A guidance document was created for developers and other responsible parties addressing operation and maintenance issues.
6.1	SWMP Data Tracking	Low	Tracks City's SWMP activities
6.2	Existing SWP3s	High	Inspections result in necessary updates to City SWPPPs. BMP improvements and/or additions are researched and implemented. Training City staff increases effectiveness of BMPs and helps to prevent pollutants from coming into contact with stormwater
6.3	Storm Sewer and Drainage Maintenance	High	Maintenance includes cleaning, clearing, seeding, and overall maintenance of the storm sewer systems
6.5	SWPP for City	Moderate	Educational materials (posters and videos) were created and used to increase water quality awareness
6.6	Native/Adaptive Vegetation	Low	This BMP is in the initial stages of implementation. Signs were designed, printed, and purchased in Year 3.
6.7	Mosquito Management	High	Controls products used and establishes processes so that applicators remain at a distance from fresh waterbodies
6.8	Street Sweeping	High	Removing contaminants from the roadways reduces the associated risk to the environment. Over 560 tons of materials were collected during Year 3 and delivered to the Grand Prairie Landfill for proper disposal
6.9	Inspect City Facilities	Moderate	City facilities not covered by a specific TPDES permit were inspected for stormwater issues

6.10	DCFCD#1 Storm Sewer and Drainage Maintenance	Moderate	As situations arise in the DCFCD#1 that require maintenance or waste removal, this BMP helps to reduce the discharge of pollutants
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## Part V. Summary of Minimum Control Measures

The following summary of minimum control measures includes the BMPs for each MCM, measurable goals, responsible party, target date, and activities completed for each BMP. The listed *Target Date* for each measurable goal is defined as the scheduled start date for that goal where Year 1 starts on August 13, 2007, Year 2 starts on August 13, 2008, Year 3 starts on August 13, 2009, and so forth. Dates listed under *Activities Completed* are the completion dates for said activity.

Included in this summary are also 1) the progress towards reducing the discharge of pollutants as determined through sampling data (this is in addition to the aforementioned Table 1) and a summary of information used to evaluate reductions in the discharge of pollutants, 2) an evaluation of the BMPs progress, 3) a discussion of obstacles or challenges for a BMP, if applicable, and 4) all activities planned for Year 4 as described by the *Target Date*.

See Table 5 for the number of non-municipal construction activities as provided to the City via notices of intent or site notices.

MCM 7 is not utilized for this permit.

### MCM 1: Public Education and Outreach

<i>BMP</i>	<i>BMP Description</i>	<i>Measurable Goals</i>	<i>Responsibility</i>	<i>Target Date</i>
<b>1.1 Environmental Education Specialist</b>	Employ an Environmental Education Specialist who supports the education initiative of this SWMP.	1. Employ an Environmental Education Specialist who will actively seek to broaden educational opportunities within the school district and the city  2. Conduct 2 storm water outreach activities annually	Environmental Services Department	Years 2 – 5

This BMP was completely removed from the SWMP in Year 1 before this permit was authorized by the TCEQ (see Year 1 Annual Report).

<i>BMP</i>	<i>BMP Description</i>	<i>Measurable Goals</i>	<i>Responsibility</i>	<i>Target Date</i>
<b>1.2 Clean Rivers Program</b>	Stream monitoring information is made available for review on the Clean Rivers Program (CRP) website. Access to this site will be provided through the city's website.	1. Provide a link to the Clean Rivers Program's website on the city's website	Environmental Services Department, Environmental Quality Division	Years 2 – 5

All activities for this BMP are complete for Year 3.

BMP 1.2 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Echo Rexroad, Sr. Environmental Specialist

Clean Rivers Program on Web site

Approximate Cost = \$0; Labor = 0.5 hours

Provided link to Clean Rivers Program on City Web site. The Clean Rivers Program allows the public to search for and view sampling results of the waterways in the area: [www.gptx.org/EnvironmentalQuality/StreamMonitoring](http://www.gptx.org/EnvironmentalQuality/StreamMonitoring).

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.3 Lawn and Garden Education for Homeowners</b>	Efforts will be made to encourage lawn and garden low maintenance concept into existing education programs throughout the city through the purchase and distribution of educational materials and other promotions. Low maintenance garden concepts will be created on city properties.	1. Provide information about native and adaptive plants on the city website and by distributing educational materials at 2 venues located throughout the city	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Maintenance of Texas SmartScape™ Demonstration Garden at the Prairie Paws Adoption Center		Years 1 – 5

The City exceeded the goals for this Year 3 BMP.

BMP 1.3 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Services Department

Prairie Paws Demonstration Garden

Approximate Cost = \$3,757; Labor = 1 hour/week

The Prairie Paws SmartScape demonstration garden was maintained in Year 3 (Figure 1).

**Figure 1: Prairie Paws Demonstration Garden**



**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*SmartScape Educational Materials*

*Approximate Cost = \$56; Labor = 0.5 hours/month*

Texas SmartScape educational materials were distributed at the Memorial Library and the Development Center.

**Date:** 8/13/2009      **Responsible Party:** Public Works Department

*Water Utilities SmartScape Garden*

*Approximate Cost = \$860/month; Labor = 2 hours/week*

The Water Utilities SmartScape demonstration garden was maintained in Year 3.

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Native and Adaptive Plants on Web Site*

*Approximate Cost = \$0; Labor = 0.5 hours*

Posted information on Texas SmartScape on the City of Grand Prairie Storm Water Web site. According to NCTCOG's user statistics, the Texas SmartScape Web site received 647 visits from Grand Prairie.

Posted on "What is Stormwater?" Web page:

"Select native and adapted plants and grasses that are drought and pest resistant. Native plants require less water, fertilizer, and pesticides. Learn more about native and adaptive plants at [www.txsmartscape.com](http://www.txsmartscape.com)."

Posted on "Lawn Chemicals" Web page:

"Want to learn more about how you can reduce fertilizer and pesticide use? Become a Certified Master Composter or visit the TexasSmartScape™ official website."

**Date:** 2/17/2010      **Responsible Party:** Echo Rexroad, Sr. Environmental Specialist

*Train-the-Speaker Class and Resources*

*Approximate Cost = \$25; Labor = 4 hours*

Echo Rexroad, Sr. Environmental Specialist, attended the Train-the-Speaker SmartScape class. The class was taught by Dotty Woodson, Extension Program Specialist for the Texas AgriLife Extension Service. The class was held at the Urban Solutions Center in Dallas.

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*SmartScape Bookmarks Purchase*

*Approximate Cost = \$56; Labor = 0.25 hours*

The City purchased SmartScape bookmarks through a North Central Texas Council of Governments cooperative purchase.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.4 Household Hazardous Waste (HHW) Program</b>	Reduction of household hazardous waste dumping will be promoted through the distribution of educational materials and through HHW events that provide city residents the opportunity to dispose of household hazardous waste.	1. Continue pamphlet and/or wheel distribution at 3 venues located throughout the city	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Discuss hazards of household hazardous waste at least 1 time per year in the city newsletter		Years 1 – 5
		3. Handout HHW magnets to at least 100 citizens per year		Years 1 – 5

The City exceeded the goals for this Year 3 BMP.

BMP 1.4 Activities Completed

**Date:** 8/13/09 to 5/15/10 **Responsible Party:** Environmental Quality Division

*Pipeline Articles*

Approximate Cost = \$1,564 to print Pipeline and free to mail in utility bill; however, contains multiple articles; Labor = 1.5 hours each

Ten (10) articles advertising HHW events and/or discussing the hazards of disposing of household hazardous waste improperly were printed in the Pipeline.

**Date:** 8/12/2010 **Responsible Party:** Environmental Quality Division

*HHW Wheel Distribution*

Approximate Cost = \$725 for 1,000 wheels; Labor = 0.5 hours/month

The City distributed "Earth Saver" wheels at the Memorial Library, Betty Warmack Library, Development Center, and at Household Hazardous Waste events.

**Date:** 8/12/2010 **Responsible Party:** Environmental Quality Division

*HHW Magnets*

Approximate Cost = \$0.32 per magnet (down from 1.10 per magnet in Year 2; no attached clip in Year 3); Labor = 1 hour/month

The City distributed approximately 1,300 Household Hazardous Waste magnets in Year 3. Magnets were distributed during Household Hazardous Waste events, during which we had 1,063 participants, and were made available to visitors at the development center and during complaint inspections.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.5 Don't Bag It! Program</b>	Encourage participants to mulch grass and yard clippings as a compost instead of application of commercial fertilizers.	1. Distribute public education materials about the program at 3 venues located throughout the city	Environmental Services Department, Solid Waste Division	Years 1 – 5
		2. Provide information about the program in the water bill insert to 80% of the city's water customers		Years 1 – 5

The City exceeded the goals for this Year 3 BMP.

BMP 1.5 Activities Completed

**Date:** 8/13/2009 **Responsible Party:** Environmental Services Department

*Educational Materials*

Approximate Cost = \$0.50 to \$1.00/brochure from Year 2; Labor = 0.5 hour/month

Distributed "Don't Bag It" and "Hop To It" materials at the Development Center, City libraries, and City Landfill. "A Green Guide to Yard Care" was distributed to Master Composter participants. The "Don't Bag It" brochure was also distributed at the City's Arbor Day Event (4/30/2010), Spring Master Composter Training (5/6-5/8/2010), and the City's MayFest Event (5/15/2010).

**Date:** 6/15/2010      **Responsible Party:** Solid Waste Division

*Don't Bag It!*

*Approximate Cost = \$1,564 to print the Pipeline and free to mail in utility bill; however, the Pipeline has multiple articles; Labor = 1.5 hours*

Two (2) Don't Bag It! articles were printed in the Pipeline.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.6 Pet Waste Management Education</b>	Promote awareness of the hazards to health and the environment from pet waste through several forms of outreach. (The pet waste dispensers also satisfy minimum control measure for public involvement).	1. Purchase 500 shovels for distribution	Environmental Services Department, Environmental Quality Division and Animal Services Division	Year 1
		2. Create cooperative "Doo the Right Thing" video by the end of Year 1; make video available on the city website and play on cable television annually		Years 1 – 5
		3. Annually distribute a minimum of 200 informative brochures at the Development Center		Years 1 – 5
		4. Annually distribute at least 200 informative brochures to customers adopting pets at the Prairie Paws Adoption Center and display poster in the Environmental Services Department office		Years 1 – 5
		5. Install 2 pet waste collection dispensers at any future pet park to promote proper owner disposal of pet waste		Year 4

The City exceeded the goals for this Year 3 BMP.

BMP 1.6 Activities Completed

**Date: 3/31/2010**      **Responsible Party: Environmental Quality Division**

*Doo the Right Thing on GPTV*

*Approximate Cost = NA (previous purchase); Labor = 0.10 hours/day*

The "Doo the Right Thing" video remains posted on the City's Web site from Year 1 at [www.gptx.org/EnvironmentalQuality/PetWaste](http://www.gptx.org/EnvironmentalQuality/PetWaste). In addition, this video was aired on GPTV every day from August 2009 through March 2010.

**Date: 8/12/2010**      **Responsible Party: Environmental Quality Division**

*Pet Waste Poster*

*Approximate Cost = \$0; Labor = 0 hours*

"If you think picking up poop is unpleasant, try drinking it" poster remains displayed in Environmental Quality Division's office from Year 1.

**Date: 8/12/2010**      **Responsible Party: Environmental Quality Division**

*Pet Waste Educational Material*

*Approximate Cost = \$0.76/brochure, \$0.22/bookmark, \$2.23/bag dispenser; Labor = 0.5 hours/month*

The City distributed Pet Waste & Water Quality brochures (in English and Spanish) explaining the environmental issues associated with pet waste and how to dispose of the waste properly. Two-hundred (200), or as many as needed, Pet Waste brochures were distributed at the Development Center, Memorial Library, and Prairie Paws Adoption Center. In addition, the City purchased 1,000 Pet Waste bookmarks that explained how to "Doo the Right Thing." The bookmarks were distributed at the Development Center and Memorial Library. The City also purchased and distributed 1,000 dog waste bag dispensers. The dispensers were distributed at the Development Center, Prairie Paws Adoption Center, and at educational events such as MayFest and health fairs.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
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<b>1.7 H<sub>2</sub>O Line</b>	Produce and distribute a newsletter to selected industrial sectors and automotive related businesses featuring storm water topics.	1. Produce and distribute a quarterly newsletter promoting pollution prevention awareness to at least 200 businesses	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Distribute to at least 50% of businesses during industrial inspections		Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 1.7 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*H2O Line Distribution*

*Approximate Cost = \$624 to print; Labor = 40 hours (10 hours each)*

The Environmental Quality Division created and distributed the H2O Line for Fall 2009 and Winter, Spring, and Summer of 2010. City inspectors regularly distributed the H2O Line during industrial inspections.

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*H2O Line Via Email*

*Approximate Cost = \$0; Labor = 0.5 hours to email*

Each H2O Line was sent to over 200 contacts via email.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.8 Environmental Compliance Workshops</b>	Pollution Prevention (P2) measure concepts are promoted to industries to reduce waste generated and the potential sources of storm water pollution.	1. Encourage P2 measures through semi-annual environmental compliance workshops	Environmental Services Department, Environmental Quality Division	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 1.8 Activities Completed

**Date:** 10/28/2009      **Responsible Party:** Environmental Quality Division

*4th Quarter 2009*

*Approximate Cost = \$800 for awards, \$600 for food; Labor = 20 hours*

Environmental Quality staff hosted an Annual Awards Luncheon to recognize 100% compliance and pollution prevention projects. Bruce Mac-Donald of Effective Environmental gave a presentation on hazardous waste management, special wastes, and how to avoid common pitfalls.

**Date:** 1/20/2010      **Responsible Party:** Environmental Quality Division

1st Quarter 2010

Approximate Cost = \$75 to \$100 for food; Labor = 15 hours

The topic for the 1st Quarter 2010 Environmental Compliance Workshop was "A Practical Guide to Tier II Reporting." The speaker was Bernardine Zimmerman, Chemical and Data Information Specialist with the Texas Department of State Health Services Tier II Chemical Reporting Program. Ms. Zimmerman gave an overview of the Tier II program and regulations, including how to determine if you are required to file, and what chemicals should be reported.

**Date:** 4/28/2010      **Responsible Party:** Environmental Quality Division

2nd Quarter 2010

Approximate Cost = \$75 to \$100 for food; Labor = 15 hours

Josh Flesher, the Assistant Area Director with the U.S. Occupational Safety and Health Administration (OSHA), gave a presentation on "Machine Guarding and All About OSHA" during the 2nd Quarter 2010 Environmental Compliance Workshop.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.9 Commercial and Industrial Activity Education on the Impacts of Floatables</b>	Awareness of and responsibility for floatables control and responsibility of commercial and industrial businesses will be integrated into existing activities by distributing information to selected facilities during routine inspections. (Refer to BMP 3.11).	1. Find or create informative handouts about litter associated with commercial and industrial activity to distribute	Environmental Services Department, Environmental Quality Division	Year 2
		2. Distribute informative brochures to 60% of the food permit holders inspected each calendar year; make both English and Spanish versions available		Years 2 – 5
		3. Make available on the city website		Years 2 – 5

All activities for this BMP are complete for Year 3.

BMP 1.9 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Brochures on Web Site*

*Approximate Cost = \$0; Labor = 0.5 hours*

The "Clean it Right" and "An Industry's Guide for Protecting Grand Prairie's Watershed" brochures remained posted on the City's Web site since Year 2. These brochures may be found at [www.gptx.org/environmentalquality/FoodService](http://www.gptx.org/environmentalquality/FoodService) and [www.gptx.org/environmentalquality/Industrial](http://www.gptx.org/environmentalquality/Industrial), respectively.

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Brochure Distribution*

*Approximate Cost = \$0.65/brochure; Labor < 0.10 hour/inspection*

Distributed English and Spanish "Clean It Right" brochures to food permit holders during inspections, at Food School, and at the Development Center. "An Industry's Guide for Protecting Grand Prairie's Watershed" was distributed during industrial inspections and at the Development Center.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.10 Informational Material for Automotive Related Businesses</b>	Awareness of the impact of the automotive sector's pollutants on water quality will be integrated into existing activities by distribution of information on BMPs and use of BMPs for automotive activities during routine Certificate of Occupancy inspections.	1. Distribute automotive and storm water quality informative material during Certificate of Occupancy inspections	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Make auto related business BMPs available on the city website		Years 2 – 5

All activities for this BMP are complete for Year 3.

BMP 1.10 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*ARB Educational Materials*

*Approximate Cost = Not available (previous and current purchases); Labor < 0.10 hour/inspection*

An Environmental Specialist with the Environmental Quality Division, distributed automotive and stormwater quality educational materials during Certificate of Occupancy inspections. Materials included items such as posters, Auto Watch (an Environmental Quality and Code Enforcement publication), "Protect Our Water, Don't Dump" notepads, TCEQ's "The Used Oil Recycling Handbook, Guidance for Used Oil Handlers", Small Business and Local Government Assistance materials, a list of State permitted liquid and solid waste haulers, the City's Automotive Related Business ordinance, Operational Requirements for Mobile Wash Vendors, and An Environmental Guide for Texas Automotive/Auto body Repair Shops.

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

ARB BMPs on Web Site

Approximate Cost = \$0; Labor = 0 hours

Auto related BMPs remained posted on Environmental Quality's Auto Related Business Education Web page since Year 2. This page may be found at [www.gptx.org/EnvironmentalQuality/ARB](http://www.gptx.org/EnvironmentalQuality/ARB).

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.11 Funding for Elementary School Curriculum on Storm Water Quality</b>	Education on storm water quality and pollution prevention will be provided to elementary schools in Grand Prairie ISD through the purchase of curriculum.	1. Purchase Major Rivers© or similar curriculum as needed for additional fifth grade Grand Prairie ISD classrooms	Environmental Services Department, Environmental Quality Division	Years 2 – 5

All activities for this BMP are complete for Year 3.

BMP 1.11 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

Major Rivers Program

Approximate Cost = \$0; Labor = 0.5 hours

One Major Rivers program was given to a teacher at Grand Prairie High School upon request. Other than this one, the Grand Prairie Independent School District did not need additional Major Rivers programs for Year 3.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.12 Interactive Watershed Model Display on Storm Water Quality</b>	Demonstrate to multiple age groups the effects of various residential and commercial pollutants on storm water quality.	1. Review the kit's contents after each use and purchase any replacement parts or updates if necessary  2. Annually display an interactive watershed model or similar display during the child related water quality education events	Environmental Services Department, Environmental Quality Division	Year 1  Years 1 – 5

The City exceeded the goals for this Year 3 BMP.

BMP 1.12 Activities Completed

**Date: 12/11/2009**      **Responsible Party: Echo Rexroad, Sr. Environmental Specialist**

*Watershed Presentation at Truman Middle School*

*Approximate Cost = \$0; Labor = 3 hours*

Presented a PowerPoint presentation called "What are Watersheds" to ~ 40 Truman Middle School students. A demonstration of the EnviroScape was performed following the PowerPoint presentation.

**Date: 1/30/2010**      **Responsible Party: Echo Rexroad, Sr. Environmental Specialist**

*EnviroScape at Trinity River Watershed Conference*

*Approximate Cost = \$0; Labor = 3.5 hours*

Presented "Stormwater & Point/Nonpoint Pollution" PowerPoint presentation, Texas Stream Team kit, and the EnviroScape at the Trinity River Watershed Conference hosted by GPISD. Approximately 20-25 students attended the two sessions presented. The conference was held at the South Grand Prairie High School.

**Date: 4/30/2010**      **Responsible Party: Environmental Quality Division**

*Arbor Day Festival*

*Approximate Cost = \$0; Labor = 3 hours*

The City held an Arbor Day festival from 11 am to 1 pm at City Hall. Approximately 580 4th and 5th grade students and ~ 400 adults attended. A tree climbing demonstration was performed, ~800 free trees were given to participants for planting, and the EnviroScape was demonstrated.

**Date: 5/4/2010**      **Responsible Party: Echo Rexroad, Sr. Environmental Specialist**

*EnviroScape at Jackson Middle School*

*Approximate Cost = \$0; Labor = 3 hours*

Demonstrated the EnviroScape model to the Jackson Middle School EarthForce students.

**Date: 5/15/2010**      **Responsible Party: Environmental Quality Division**

*MayFest 2010*

*Approximate Cost = \$0; Labor = 7 hours*

The Environmental Quality Division demonstrated the importance of keeping our watersheds clean of pollution by demonstrating the EnviroScape during MayFest 2010 (Figure 2).

**Figure 2: EnviroScape at MayFest 2010**



**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*Replacement Parts*

*Approximate Cost = \$5; Labor = 1 hour*

Environmental Quality staff review the EnviroScape kit's contents after each use and purchase replacement parts if necessary.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.13 Utility Bill Insert</b>	Raise awareness of storm water issues for citizens by placing articles in the water utility bill insert.	1. Annually distribute information about storm water issues in the water utility bill insert to 80% of the city's customers	Environmental Services Department, Environmental Quality Division	Years 1 – 5

The City exceeded the goals for this Year 3 BMP.

BMP 1.13 Activities Completed

**Date:** 2/15/2010      **Responsible Party:** Echo Rexroad, Sr. Environmental Specialist

*Pipeline articles*

*Approximate Cost = \$1,564 to print Pipeline and free to mail in utility bill; each Pipeline has multiple articles; Labor = 1.5 hours per article*

In addition to the 10 HHW articles mentioned in BMP 1.4 and the 2 Don't Bag It articles mentioned in BMP 1.5, two (2) Pipeline articles were printed and distributed with water quality information: "What is a Watershed and Why Should I Care?" and "You Can Protect Our Waterways". The Pipeline is distributed to 44,000 households in Grand Prairie via the utility bill.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
<b>1.14 Stream and Watershed Name Road Signs</b>	Raise awareness of local watersheds for citizens and visitors. Develop ownership of the watersheds.	1. Develop road sign design and obtain approval	Environmental Services Department, Environmental Quality Division; Public Works Department, Streets Division	Year 2
		2. Select at least 5 sites within city limits the signs will be posted	Environmental Services Department, Environmental Quality Division	Year 3
		3. Install road signs at the 5 streams selected	Public Works Department, Streets Division	Years 4-5

The City exceeded the goals for this Year 3 BMP.

BMP 1.14 Activities Completed

*Date: 3/25/2010      Responsible Party: Echo Rexroad, Sr. Environmental Specialist*

*Watershed Sign Locations*

*Approximate Cost = \$0 (purchased two in Year 2); Labor = 18 hours*

One sign location was determined for each of the following watersheds: Fish Creek (Hampton and Carrier Pkwy), Johnson Creek (Hwy 161 near Mike Lewis Park), Kirby Creek (S Carrier and Wilcott), Cottonwood Creek (S Great Southwest near Southwest Village subdivision), and Dalworth Creek (S Carrier and Fort Worth). The signs in the Fish Creek and Johnson Creek watersheds were placed on 4/28/10.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
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<b>1.15 Multimedia Storm Water Public Education</b>	Promote watershed awareness for both citizens and visitors using multiple types of media, including a website and the city's cable channel.	1. Have storm water quality educational program on GPTV at least once per year	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Develop information for city Web site and post		Year 2
		3. Provide and maintain Storm Water Pollution Prevention information on the city's Web site		Years 3 – 5

The City exceeded the goals for this Year 3 BMP.

BMP 1.15 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Echo Rexroad, Sr. Environmental Specialist

*Web Site Information*

*Approximate Cost = \$0; Labor = 0 hours (completed in Year 1)*

Created and posted stormwater educational material for Environmental Quality Web site in Year 1. This information is continuously updated. Includes pages for the following topics: Stormwater, What are Watersheds?, Pet Waste, Cooking Oils, Lawn Chemicals, Volunteering, Stream Monitoring, Kids Activities, Storm Water Management Program, and Texas Stream Team. The City's Web site was redesigned in Year 2 (Figure 3). The address to this Web site is: [www.gptx.org/EnvironmentalQuality/Stormwater](http://www.gptx.org/EnvironmentalQuality/Stormwater).

**Figure 3: Stormwater Web site**

The screenshot shows a web page titled "Storm Water" with a green header. On the left is a vertical navigation menu under "Environmental Quality" with items: Air Quality, Automotive, Backflow, Childcare, Communicable Diseases, Drinking Water, Emergency Preparedness, Food Safety, Gas Drilling, General Health, Groundwater, H1N1, Health Clinic, Household Hazardous Waste, Noise, and Permits & Policies. The main content area includes contact information for Environmental Quality (201 NW 2nd St., Suite 100, Grand Prairie, TX 75053) and phone/fax numbers. Below this are four sections: "Storm Water" with a photo of a stream, "What are Watersheds?" with a photo of water splashing, "Pet Waste" with a photo of a dog, and a diagram of stormwater runoff from a house and street into a stream. The diagram labels "RUNOFF FROM ROOF", "LAWN RUNOFF", "GUTTER RUNOFF", "STREET RUNOFF", and "STORMWATER RUNOFF ENDS UP IN LOCAL STREAMS/ creeks".

**Date:** 8/19/2009      **Responsible Party:** Environmental Quality Division

*Grand Prairie TV: Stormwater*

*Approximate Cost = \$0; Labor = 8 hours (includes set up, shooting, and editing)*

Echo Rexroad, Eddie King, and Benjamin Shannon discussed watershed, pollution, and stream sampling issues during a stream sampling event. This show was aired on GPTV and was made available on the City's Web site.

**Date:** 10/3/2009      **Responsible Party:** Cheri Hebison, Sr. Environmental Specialist

*Grand Prairie TV: HHW*

*Approximate Cost = \$0; Labor = 8 hours (includes set up, shooting, and editing)*

Cheri Hebison discussed how to dispose of Household Hazardous Waste for GPTV and the City's Web site during one of the City's HHW

events.

**Date:** 3/31/2010      **Responsible Party:** Environmental Quality Division

*Doo the Right Thing Video*

*Approximate Cost = NA (previous purchase); Labor = 0.10 hrs/day*

The "Doo the Right Thing" video was aired on GPTV every day from August 2009 through March 2010 (see BMP 1.6).

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*Stormwater PSAs on GPTV*

*Approximate Cost = NA (previous purchase); Labor = 0.10 hrs/day*

Three stormwater PSAs (FOG, Detergents, and Automotive Fluids) were aired 7 days a week for 52 weeks for a total of 364 plays.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.16 Tailor Outreach Programs to non-English languages</b>	Evaluate and translate all educational materials created during the permit to Spanish.	1. Evaluate 80% of educational materials that can be translated	Environmental Services Department, Environmental Quality Division	Year 1
		2. Translate 25% of materials that have been evaluated as being available in Spanish		Year 3
		3. Begin purchasing and distributing brochures		Year 4

All activities for this BMP are complete for Year 3.

BMP 1.16 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Translated Educational Materials*

*Approximate Cost = \$0; Labor = 0 hours*

Well over 25% of the stormwater educational materials distributed by the City are translated into Spanish. This includes, but is not limited to, the following: Lawn Care Maintenance, Fat Free Sewers, A Guide for Auto Service, Repair and Maintenance Businesses, Steps to Obtain Construction Permits for Storm Water Discharges, Pet Waste & Water Quality, Preventing Stormwater Pollution at Construction Sites, Clean It Right, After the Storm: A Citizen's Guide to Understanding Stormwater, the AutoWatch newsletter, Clean Shop posters, and the Auto Related Business Ordinance.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.17 Auto Watch</b>	Create and distribute a water quality and code enforcement publication featuring environmental issues specific to automotive related businesses.	1. Continue to create and distribute publication to at least 300 businesses annually	Environmental Services Department, Environmental Quality Division, Code Enforcement Division	Years 1 – 5

The City exceeded the goals for this Year 3 BMP.

BMP 1.17 Activities Completed

**Date: 2/17/2010**      **Responsible Party: Environmental Quality Division**

*Auto Watch - Volume 4, Issue 1*

*Approximate Cost = \$625 to print, \$300 to mail; Labor = 60 hours*

Volume 4, Issue 1, Winter 2009-2010, Auto Watch newsletter given to automotive businesses in Grand Prairie explaining new local automotive regulations and other pertinent topics. English and Spanish versions were made available.

**Date: 7/15/2010**      **Responsible Party: Environmental Quality Division**

*Auto Watch - Volume 4, Issue 2*

*Approximate Cost = \$625 to print, \$300 to mail; Labor = 60 hours*

Volume 4, Issue 2, Summer 2010, Auto Watch newsletter given to automotive businesses in Grand Prairie explaining new local automotive regulations and other pertinent topics. English and Spanish versions were made available.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.18 Keep Grand Prairie Beautiful Education Programs</b>	Conduct KGPB programs that promote environmental education, including storm water and pollution prevention awareness.	1. Conduct or host at least 3 KGPB education programs annually	City Manager's Office, Keep Grand Prairie Beautiful Program	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 1.18 Activities Completed

**Date: 8/29/2009**      **Responsible Party: City Manager's Office, Special Projects Coordinator**

*Keep America Beautiful Litter Survey*

*Approximate Cost = \$180; Labor = 8 hours*

Keep Grand Prairie Beautiful conducted an annual litter survey based on the model provided by Keep America Beautiful. Nine participants, including 3 City Council members and 6 Keep Grand Prairie Beautiful Coordinators viewed a training video to learn how to conduct the litter survey. They then went out on a Grand Connection bus and scored street sections through out the city for litter. Participants in the Litter

Survey had the opportunity to learn about best practices for litter prevention related to intervention plans that can be created to address the score ranges. The survey itself is also a best practice. The litter score subsequently becomes an excellent tool for public education.

**Date: 10/9/2009**      **Responsible Party: City Manager's Office, Special Projects Coordinator**

*Fall ShadeMakers Class*

*Approximate Cost = \$270; Labor = 15 hours*

Fall 2009 ShadeMakers Community Forestry Class hosted by Keep Grand Prairie Beautiful: three day class that educates residents about the importance of trees such as: 1) how trees can filter stormwater pollution, capture rainwater, and how their roots can help prevent stream bank erosion; 2) how to select the right trees for our soils and how to properly plant and care for the trees; and 3) how composting and fertilizers can runoff in to the streams and create problems. Three participants took this three-day class that ran from 10/9/09 to 10/11/09.

**Date: 4/24/2010**      **Responsible Party: City Manager's Office, Special Projects Coordinator**

*Spring 2010 ShadeMakers Class*

*Approximate Cost = \$360; Labor = 15 hours*

Spring 2010 ShadeMakers Community Forestry Class hosted by Keep Grand Prairie Beautiful: three day class that educates residents about the importance of trees such as: 1) how trees can filter stormwater pollution, capture rainwater, and how their roots can help prevent stream bank erosion; 2) how to select the right trees for our soils and how to properly plant and care for the trees; and 3) how composting and fertilizers can runoff in to the streams and create problems. 11 participants took this three-day class that ran from 04/23/10 to 04/25/10. Four trees were planted at the Shady Grove Community Garden and Orchard in north Grand Prairie.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.19 Educational Material for Construction Site Personnel</b>	Create or find educational materials on BMPs and erosion control for construction site personnel.	1. Create or find brochure and/or link on construction BMPs and erosion control requirements	Environmental Services Department, Environmental Quality Division	Year 2
		2. Distribute at least 200 brochures a year at the Development Center and/or provide a link to the educational material on the city's website	Planning and Development Department and Environmental Services Department	Years 2– 5

All activities for this BMP are complete for Year 3.

BMP 1.19 Activities Completed

**Date: 8/12/2010**      **Responsible Party: Environmental Quality Division**

*Educational Materials for Construction Personnel*

*Approximate Cost = \$0 (printed in house and previous purchase); Labor = 0.5 hours/3 months*

"Steps to Obtain Construction Permits for Storm Water Discharges" brochures were distributed at two locations at the Development Center and were posted on the City's Environmental Services ([www.gptx.org/EnvironmentalServices](http://www.gptx.org/EnvironmentalServices)) and Engineering (<http://www.gptx.org/index.aspx?page=1296>) Web sites. "Preventing Stormwater Pollution at Construction Sites" brochures were available at the Development Center, on the Environmental Quality Division's Stormwater Web site ([www.gptx.org/EnvironmentalQuality/Stormwater](http://www.gptx.org/EnvironmentalQuality/Stormwater)), and on Engineering's Construction General Permit & BMP FAQ Web site (<http://www.gptx.org/index.aspx?page=1296>).

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>1.20 Storm Water Education for Visitors</b>	Provide educational materials featuring water quality issues for Grand Prairie visitors.	1. Provide information about storm water issues on the city website and at Grand Prairie's visitors center	Environmental Services Department, Environmental Quality Division	Year 2

All activities for this BMP are complete for Year 3.

BMP 1.20 Activities Completed

**Date: 8/13/2009**      **Responsible Party: Environmental Quality Division**

*Visitor Education*

*Approximate Cost = \$0 (previous purchase); Labor = 0.5 hours/month*

"Nonpoint Source Pollution: You are the Key to the Cleanup" brochures are available for distribution at the City's Visitor's Center.

**Date: 8/13/2009**      **Responsible Party: Echo Rexroad, Sr. Environmental Specialist**

*Stormwater Web Site*

*Approximate Cost = \$0; Labor = 0.5 hours/month*

Created and posted stormwater educational material for Environmental Quality Web site in Year 1. This information is continuously updated. Includes pages for the following topics: Stormwater, What are Watersheds?, Pet Waste, Cooking Oils, Lawn Chemicals, Volunteering, Stream Monitoring, Kids Activities, Storm Water Management Program, and Texas Stream Team. The City's Web site was redesigned in Year 2 and was maintained in Year 3. The address to this Web site is: [www.gptx.org/EnvironmentalQuality/Stormwater](http://www.gptx.org/EnvironmentalQuality/Stormwater).

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
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<b>1.21 Take Care of Texas Brochure</b>	Distribute brochures that describe what residents may do to protect the environment.	1. Distribute at least 200 Take Care of Texas brochures	Environmental Services Department, Environmental Quality Division	Year 1
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There are no required activities listed for this BMP for Year 3.

BMP 1.21 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Take Care of Texas Brochures*

*Approximate Cost = \$0; Labor = 0.10 hours/month*

"Take Care of Texas-Do Your Part!" brochures were made available for distribution at the Development Center.

**MCM 2: Public Involvement & Participation**

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>2.1 Public Notice in Development of SWMP</b>	Comply with federal, state, and local public notice requirements when implementing the SWMP.	1. Continue to make the document available for comments on the city Web site and at the Environmental Services Department office	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Make presentations to applicable city council committees		Year 1

All activities for this BMP are complete for Year 3.

BMP 2.1 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*SWMP Survey on Web Site*

The Environmental Quality Division posted a Web site survey to better understand citizens' views on water quality issues. The link to the survey may currently be found at [www.gptx.org/EnvironmentalQuality/SWMP](http://www.gptx.org/EnvironmentalQuality/SWMP).

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*SWMP at Development Center*

A copy of the City's Storm Water Management Program is available for review and comments at the Environmental Services Department office located at 206 W. Church Street, 2<sup>nd</sup> Floor, Grand Prairie Texas 75050.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>2.2 Texas Stream Team Volunteer Stream Monitoring Program</b>	Involve volunteers in the stream monitoring process through Texas Stream Team.	1. Hold at least 1 Texas Stream Team training session for volunteers or corporations annually	Environmental Services Department, Environmental Quality Division	Years 2 – 5

The City has exceeded the goal for BMP 2.2.

BMP 2.2 Activities Completed

***Date: 8/18/2009***      ***Responsible Party: Echo Rexroad, Sr. Environmental Specialist***  
*International Paper Phase I and II*  
 Lance Shepherd, with International Paper, completed Phase I and II of Texas Stream Team training.

***Date: 9/18/2009***      ***Responsible Party: Echo Rexroad, Sr. Environmental Specialist***  
*Sterigenics Phase III*  
 Richard Carlson from Sterigenics completed Phase III of Texas Stream Team training.

***Date: 11/24/2009***      ***Responsible Party: Echo Rexroad, Sr. Environmental Specialist***  
*Eagle Scout Troop 500 for Bell Helicopter Phase III*  
 Four participants from Eagle Scout Troop 500 completed Phase III of Texas Stream Team training.

***Date: 3/17/2010***      ***Responsible Party: Echo Rexroad, Sr. Environmental Specialist***  
*International Paper Phase III*  
 Lance Shepherd from International Paper completed Phase III of Texas Stream Team training.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
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<b>2.3 Master Composter Program</b>	Involve the public in lawn and garden compost waste training that will encourage reductions in fertilizer and pesticide use. Participants attend three days of hands-on training and can become a Certified Master Composter.	1. Conduct 2 Master Composter classes per year	Environmental Services Department, Solid Waste Division	Year 1
		2. Distribute yard care educational materials to at least 20 Master Composter participants annually		Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 2.3 Activities Completed

**Date: 10/8/2009**      **Responsible Party: Solid Waste Division**

*Fall Master Composter Class*

The fall 2009 Master Composter training class was held on October 8-10, 2009. Approximately 15 individuals participated.

**Date: 5/6/2010**      **Responsible Party: Solid Waste Division**

*Spring Master Composter Class*

The spring 2010 Master Composter training class was held on May 6-8, 2010. There were 27 participants.

**Date: 7/15/2010**      **Responsible Party: Solid Waste Division**

*Kirby Creek Garden - Article in Pipeline:*

**Kirby Creek Garden - Volunteers Needed**

Volunteers at the city of Grand Prairie’s Kirby Creek Nature Center are harvesting this summer’s crop from the organic vegetable garden. Nature’s bounty in all her vibrant colors is making an appearance in the form of zucchinis, tomatoes, sweet peppers, potatoes, squash and eggplant. No experience is needed to volunteer, except the capacity to weed, till and amend the soil with compost, plant seeds, mulch and weed some more before harvest! Most volunteers typically include those who have completed 14 hours of Master Composter training over one weekend day and two evenings. An additional 40 hours of volunteering in the garden and other opportunities in the city, provides a path to certification as a city of Grand Prairie certified Master Composter. Master Composters receive instructional materials, and a Shepherd’s bin (valued at \$25), to encourage backyard composting that can be shared with friends and neighbors. For more information about signing up for the next Master Composter class (Oct. 7-9, 2010), volunteering at Kirby Creek or caring for your lawn and yard, please contact Vijit Singh at vsingh@gptx.org or call Vijit at 972-237-8061.

**Date: 8/12/2010**      **Responsible Party: Solid Waste Division**

*Master Composter Educational Material*

The Solid Waste Division distributed Rodale's Composting Book, TCEQ Green Guide to Yard Care, and the Don't Bag It brochure to at least 42 master composter participants.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
<b>2.4 Storm Drain Markers</b>	Install storm drain markers “Protect Our Water, Don’t Dump” to promote awareness of the storm drain system.	1. Purchase and have installed through volunteer help 100 of the city’s unmarked storm drain curb inlets annually	Environmental Services Department, Environmental Quality Division	Years 2 – 5

The City has exceeded the goal for BMP 2.4.

BMP 2.4 Activities Completed

*Date: 5/31/2010      Responsible Party: Echo Rexroad, Sr. Environmental Specialist*

*2010 Storm Drain Projects*

Students and teachers from Hobbs Williams Elementary School, Dubiski High School, South Grand Prairie High School, Jackson Middle School, Zavala Elementary School, Kennedy Middle School, and Pack 202/Girl Scout Troop 1183 (at Garner Elementary School) participated in storm drain labeling using "Don't Dump" markers. A total of 312 storm drains were labeled during Year 3.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
<b>2.5 Public Education Event</b>	Hold an interactive educational event that promotes storm water BMPs and awareness of the Trinity River watershed.	1. Annually hold a public education event that focuses on education through involvement and promotional giveaways	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Collect and use at least 20 participant surveys for evaluation of the event		Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 2.5 Activities Completed

*Date: 5/15/2010      Responsible Party: Environmental Quality Division*

*Doo the Right Thing Pledges*

During MayFest 2010, sixty-seven (67) Doo the Right Thing pledges were collected.

**Date:** 5/15/2010      **Responsible Party:** Environmental Quality Division

*MayFest Survey*

During MayFest 2010, twenty-five (25) surveys were collected in order to evaluate the success of the event.

**Date:** 5/15/2010      **Responsible Party:** Environmental Quality Division

*MayFest 2010*

MayFest, a water quality educational event, was sponsored by the City of Grand Prairie and Grand Prairie ISD. There were approximately 1,000 to 1,500 participants.

Pipeline article, April 2010:

MayFest 2010: A Celebration of the Trinity River - Protecting our Resources Saturday, May 15 • 9 a.m.-3 p.m. Kirby Creek Nature Center. 3303 Corn Valley Road Join the Grand Prairie Independent School District and the city of Grand Prairie in celebrating MayFest 2010. Each year the GPISD and City of Grand Prairie co-host this free educational event that focuses on water quality issues. MayFest goers will enjoy a wide variety of aquatic and wildlife demonstrations, the science of scuba diving, Country Critters Petting Zoo, the Eco Shopping Game, Wildlife on the Move, rainwater harvesting, master composters, water quality exhibits and conservation tips, a recycle relay, information on summer camps, musical and dramatic performances, and other programs. Enjoy arts and crafts vendors, festival foods, and more. For more information call Tracy Hollis at 972-264-8729.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>2.6 Storm Water Ordinance</b>	Involve the public in the development of a Storm Water Ordinance (refer to BMP 3.9). Public comment will be incorporated in the finalization of the ordinance.	1. Hold at least 1 public hearing on the storm water ordinance; additional hearings will be held provided there is significant public interest	Environmental Services Department, Environmental Quality Division	Year 2

There are no required activities listed for this BMP for Year 3.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
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<b>2.7 Illegal Dumping Hotline</b>	Encourage citizens to report violators of dumping by participating in an inter-local response to an illegal dumping hotline.	1. Continue to make the Illegal Dumping Hotline available on the city's Web site.	Planning and Development Department, Code Enforcement Division	Years 1 – 5
		2. Add link to Environmental Services storm water Web page promoting Illegal Dumping Hotline	Environmental Services Department, Environmental Quality Division	Years 2 – 5

All activities for this BMP are complete for Year 3.

BMP 2.7 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Stormwater Web Site*

Included on the City's Stormwater Web page at [www.gptx.org/EnvironmentalQuality/Stormwater](http://www.gptx.org/EnvironmentalQuality/Stormwater).

"You Can Protect Our Waterways:

Report Illegal Dumping. If you have witnessed illegal dumping in the City of Grand Prairie or know of a location where illegal dumping has occurred, please call the Illegal Dumping Hotline at 972-237-8064."

**Date:** 8/13/2009      **Responsible Party:** Code Enforcement Division

*Code Enforcement Web Site*

The number of the City's Illegal Dumping Hotline may be found on the Code Enforcement's Web site at <http://www.gptx.org/index.aspx?page=219>: "Illegal Dumping Hotline: 972-237-8064"

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>2.8 Stakeholder Meetings</b>	Keep citizens and other stakeholders involved in the decision process for managing the Storm Water Management Program.	1. Hold one stakeholder meeting per year	Environmental Services Department, Environmental Quality Division	Years 1 – 5

The City has exceeded the goal for this BMP.

BMP 2.8 Activities Completed

**Date:** 1/13/2010      **Responsible Party:** Environmental Quality Division

*Planning and Development SWMP Goals*

Held meeting with the City's Planning and Development Department to discuss the SWMP goals for MCM 4 and 5.

**Date:** 1/29/2010      **Responsible Party:** Echo Rexroad, Sr. Environmental Specialist

*Food and Commercial Stormwater BMPs*

Echo Rexroad presented stormwater BMPs for "Food Establishments and Commercial Facilities" to the Environmental Quality Staff. SWMP goals as they relate to food/commercial facility inspections were discussed.

**Date:** 4/29/2010      **Responsible Party:** Environmental Quality Division

*Auto Related Business Meeting*

The Environmental Quality and Code Enforcement Divisions hosted a meeting at City Hall to discuss issues and challenges at Auto Related Business (ARB) facilities. Post cards announcing the meeting were mailed out to the ARB businesses throughout Grand Prairie and the meeting was posted on the City's Web page. Specifically, the Environmental Quality Division discussed the history of the ARB program, the ARB ordinance, environmental impacts of ARBs, SWMP obligations, compliance issues and successes, and regional participation.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>2.9 Keep Grand Prairie Beautiful Programs</b>	Encourage participation in Keep Grand Prairie Beautiful programs, such as Adopt-a-Street, Adopt-a-Stream, Adopt-A-Wetland, Youth Environmental Action (YEA!), and the Great American Cleanup.	1. Host at least 5 events per year to encourage community participation	City Manager's Office, Keep Grand Prairie Beautiful Program	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 2.9 Activities Completed

**Date:** 10/3/2009      **Responsible Party:** City Manager's Office, Special Projects Coordinator

*Fall 2009 Adopt-A-Street Cleanups*

Volunteers from 82 of the 107 registered Adopt-A-Street groups worked 615 volunteer hours conducting cleanups of their street segments, cleaning 82 miles of city streets, and collecting 3,198 lbs of litter.

**Date:** 10/24/2009      **Responsible Party:** City Manager's Office, Special Projects Coordinator

*Grand Peninsula Owners Adopt-A-Stream Cleanup*

Keep Grand Prairie Beautiful sponsored a cleanup of the shoreline of Joe Pool Lake with the Grand Peninsula Owners Clean & Beautiful Neighborhood Committee, which has adopted streets and the Joe Pool Lake shoreline near their neighborhood. Volunteers also cleaned litter from along Arlington Webb-Briton Road, Charles England Parkway, and along the stormwater retention area that is located within their neighborhood.

**Date:** 1/9/2010      **Responsible Party:** City Manager's Office, Special Projects Coordinator

*Winter 2010 Adopt-A-Street Cleanups*

54 of the 107 registered Adopt-A-Street groups worked 243 volunteer hours by conducting winter Adopt-A-Street cleanups. 2,106 lbs of litter were collected from along 54 miles of city streets.

**Date:** 2/6/2010      **Responsible Party:** City Manager's Office, Special Projects Coordinator

*The Woods United Methodist Adopt-A-Stream Cleanup*

Keep Grand Prairie Beautiful hosted an Adopt-A-Stream Cleanup along Fish Creek in partnership with The Woods United Methodist Church.

**Date:** 4/10/2010      **Responsible Party:** City Manager's Office, Special Projects Coordinator

*Spring 2010 Adopt-A-Street Cleanups*

84 of the 108 registered Adopt-A-Street groups worked 630 volunteer hours to cleanup 3,276 pounds of litter from along 84 miles of city streets.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>2.10 Neighborhood Outreach Program</b>	Program encourages the involvement of neighborhood associations for the purpose of educating them about various concerns, including storm water related issues, and providing opportunities to participate in various neighborhood-specific projects that can impact water quality (ex. Clean and Beautiful Neighborhoods Program). (Also satisfies MCM 1).	1. Annually coordinate neighborhood projects, such as stream/wetland cleanups, tree planting projects and awareness events	City Manager's Office, Keep Grand Prairie Beautiful Program	Years 1 – 5

The City exceeded the goals for this Year 3 BMP.

BMP 2.10 Activities Completed

**Date:** 8/22/2009      **Responsible Party:** City Manager's Office, Special Projects Coordinator

*Trailwood NA Clean & Beautiful Cleanup*

The Trailwood Neighborhood Association formed a Clean & Beautiful Neighborhood Sub-Committee that hosted a cleanup of several alleys through the neighborhood as well as a graffiti cleanup in the storm drain that runs between Lewis and Clark Streets.

**Date:** 8/27/2009      **Responsible Party:** City Manager's Office, Special Projects Coordinator

*Oak Hollow Sheffield Village Clean & Beautiful Neighborhood Meeting*

Keep Grand Prairie Beautiful's Clean & Beautiful Neighborhood hosted a meeting for the Oak Hollow Sheffield Village Neighborhood Association and its Clean & Beautiful Neighborhood sub-committee. The litter accumulation along Bardin Road across from the Wal-Mart was discussed. This neighborhood has adopted all the major streets and adopted the section of Fish Creek that runs through their area. They discussed hosting a joint Fish Creek cleanup with the Sheffield Neighborhood On Watch later in the fall or winter.

**Date:** 11/28/2009      **Responsible Party:** City Manager's Office, Special Projects Coordinator

*Rainwater Harvesting Demonstration Project with the Dalworth Neighborhood*

Three Keep Grand Prairie Beautiful programs converged to host a rainwater harvesting demonstration project at the Luckett Community Garden and Tree Farm in the Dalworth Neighborhood. The three participating programs were: Clean & Beautiful Neighborhoods - The Dalworth Link Neighborhood Association and its Clean & Beautiful Neighborhood sub-committee; the Keep Grand Prairie Beautiful Community Garden Program - The Luckett Community Garden and Tree Farm in the Dalworth Neighborhood hosted this project; and Keep Grand Prairie Beautiful's Eagle Scout Project Sponsorship Program - sponsored the installation of a rainwater harvesting system on the shed at the garden. The event provided the opportunity to educate the participants about water quality issues.

**Date:** 2/13/2010      **Responsible Party:** City Manager's Office, Special Projects Coordinator

*Amesbury Estates Adopt-A-Stream Cleanup*

Keep Grand Prairie Beautiful's Adopt-A-Stream program sponsored a cleanup of the Rodger Branch Creek that flows through their neighborhood. 17 volunteers worked 51 volunteer hours to remove 3,315 lbs of trash and debris from the creek.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>2.11 School Outreach Programs</b>	Partnership between the City's Keep Grand Prairie Beautiful Program and a local school district that encourages student and campus participation, fosters the development of campus clubs, and provides opportunities for involvement and education.	1. Annually facilitate at least 10 activities for the campus programs	City Manager's Office, Keep Grand Prairie Beautiful Program	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 2.11 Activities Completed

**Date:** 9/15/2009      **Responsible Party:** City Manager's Office, Special Projects Coordinator

*BEST Meeting*

Green & Clean Campus participating school, Barbara Bush Elementary, has created a teacher led team to move the Green & Clean Campus initiatives further. It is called the Bush Environmental Science Team or BEST. They meet regularly to plan events. Stormwater pollution prevention related topics covered in this meeting included their vermicomposting operation which includes worm bins in every classroom. Vermicomposting education helps the youth understand that the humate produced by the worms is the best fertilizer, thus reducing the need to depend on chemical fertilizers. They also discussed their Adopt-A-Spot program through which each grade level has adopted a section of the campus. They keep their sections clean and prevent litter from washing down the storm drains. They also planned an event called "Clean For a Cause" which was a fundraising car wash. When they conducted the car wash, they put the cars in the grass, so the grass could filter to soapy water. They used that effort as a way to educate the customers, who asked why they were washing the cars on the grass instead of the pavement.

**Date:** 9/24/2009      **Responsible Party:** City Manager's Office, Special Projects Coordinator

*2009-2010 Green & Clean Campus Kick-Off*

Keep Grand Prairie Beautiful hosted the 2009-2010 Green & Clean Campus Program Kick-Off for our environmental education partnership with the Grand Prairie Independent School District. The event was attended by 65 teachers and staff, including the Superintendent, Dr. Simpson and our State Representative, Kirk England. KGPB's water drop and trash can mascots also made appearances. The upcoming year

and outdoor learning centers/gardens that would be built at a number of elementary schools were discussed. Each of the schools was planning on including a pond for aquatic studies and some were considering erosion control study beds.

**Date: 10/29/2009**     **Responsible Party: City Manager's Office, Special Projects Coordinator**

*Real People Meeting at Bush Elementary*

Green & Clean Campuses were invited to participate in a "Real People" event hosted by Green & Clean Campus member Barbara Bush Elementary and Real School Gardens. During the networking event, the Green & Clean Campus Coordinators learned about Real School Gardens' efforts to construct outdoor classrooms/gardens that are pesticide and herbicide free and use organic fertilizers.

**Date: 11/3/2009**     **Responsible Party: City Manager's Office, Special Projects Coordinator**

*Green & Clean Campus Meeting*

Keep Grand Prairie Beautiful hosted a meeting of the Green & Clean Campus Coordinators where various topics related to environmental education were discussed. We pitched participation in our Adopt-A-Street and Adopt-A-Stream programs to the coordinators. Several Middle Schools expressed interest in the Adopt-A-Stream program due to the EarthForce program and the need for service learning projects.

**Date: 11/13/2009**     **Responsible Party: City Manager's Office, Special Projects Coordinator**

*Texas Recycles Day Event at Marshall Elementary*

Green & Clean Campus member Marshall Elementary hosted a Texas Recycles Day event at their school. The event included a mural made of recyclables and other educational components. The students and staff learned through events like this to recycle when possible and to value recyclables, as opposed to putting them in the trash or letting them end up as litter.

**Date: 12/17/2009**     **Responsible Party: City Manager's Office, Special Projects Coordinator**

*Green & Clean Campus Meeting*

Keep Grand Prairie Beautiful hosted a meeting of the Green & Clean Campus Coordinators. The schools reported about their unique expressions of the GCCP program. The theme of the event was "Even Santa Recycles!" and featured a recycled/recycling Santa.

**Date: 12/18/2009**     **Responsible Party: City Manager's Office, Special Projects Coordinator**

*Green & Clean Campus Grants to Schools*

The City of Grand Prairie's Keep Grand Prairie Beautiful Program sponsored a grant totaling \$2,500 to schools participating in the Green & Clean Campus programs to help with their environmental stewardship education efforts, including water quality monitoring, EarthForce activities, litter prevention, recycling, and the construction of outdoor classrooms/gardens. This year's grant benefited the following Grand Prairie schools: Dickinson, Bowie, Seguin, Florence Hill, Marshall, Whitt, Daniels, Immaculate Conception, Eisenhower, Garner, Moseley, and Rayburn.

**Date: 1/13/2010**     **Responsible Party: City Manager's Office, Special Projects Coordinator**

*Construction of a Pond for Aquatic Studies at Bowie Elementary*

Keep Grand Prairie Beautiful constructed a pond for aquatic studies as part of an outdoor learning area/garden at Bowie Elementary, which is a participant in our Green & Clean Campus Program. The students celebrated with a fish release event, on January 13, 2010.

**Date: 1/30/2010**     **Responsible Party: City Manager's Office, Special Projects Coordinator**

*EarthForce Watershed Conference*

Keep Grand Prairie Beautiful helped to sponsor a Trinity River Watershed Conference for students participating in the EarthForce program in partnership with the Grand Prairie Independent School District and its EarthForce grantor. The students heard guest speakers about the Trinity River. Other topics included bioremediation of erosion, invasive species, and biotics of our area of the Trinity River.

**Date:** 5/31/2010      **Responsible Party:** City Manager's Office, Special Projects Coordinator  
 Green & Clean Campus Coordinator's Meeting

Keep Grand Prairie Beautiful sponsored a meeting of the Green & Clean Campus Coordinators where we celebrated the construction of new school gardens/outdoor learning areas and recycling and litter prevention at the campuses.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>2.12 Corporate Involvement Program</b>	Partnership between the City and the Grand Prairie Chamber of Commerce that encourages company involvement in litter prevention and cleanup programs, as well as serve as a vehicle to educate companies about storm water related issues.	1. Annually hold at least 1 meeting to recruit new companies	City Manager's Office, Keep Grand Prairie Beautiful Program	Years 1 – 5
		2. Facilitate annual Cleanup Company meetings or activities for companies involved		Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 2.12 Activities Completed

**Date:** 11/19/2009      **Responsible Party:** City Manager's Office, Special Projects Coordinator  
 Clean Company Luncheon

Keep Grand Prairie Beautiful hosted a luncheon in partnership with the Grand Prairie Historical Organization during which we described the City's past Urban Renewal Effort and explained how that was used to clean the city. We invited participants to join in our current day efforts by joining the Clean Company Program, as well as our Adopt-A-Street and Adopt-A-Stream program.

**Date:** 11/21/2009      **Responsible Party:** City Manager's Office, Special Projects Coordinator  
 Sunbelt Storage Clean Company Recruitment Event

New Clean Company member Sunbelt Storage hosted a Texas/America Recycles Day event at their site to recruit other local companies into the Clean Company Program. The event included several booths of interest. Keep Grand Prairie Beautiful hosted a booth where we explained our programs. A good contact was made with the Westchester Homeowner's Association who subsequently invited our staff coordinator to write an article about the City's litter prevention efforts. The article was published in their newsletter.

**Date:** 12/18/2009      **Responsible Party:** City Manager's Office, Special Projects Coordinator  
 Lockheed Martin Missiles and Fire Control Adopt-A-Stream Cleanup

Keep Grand Prairie Beautiful's Adopt-A-Stream and Clean Company Program sponsored a cleanup of the South Fork of Cottonwood Creek with Lockheed Martin Missiles and Fire Control. 13 volunteers participated working approximately 2.5 hours each for a total of 32.5

volunteer hours to clean 0.5 miles of creek area.

**Date:** 3/11/2010      **Responsible Party:** City Manager's Office, Special Projects Coordinator  
*Spring Lockheed Martin Missiles and Fire Control Adopt-A-Stream Cleanup*

Keep Grand Prairie Beautiful's Adopt-A-Stream Program partnered with Lockheed Martin Missiles and Fire Control's environmental "Affinity Group," which is an expression of their Clean Company membership to host a cleanup of the south fork of Cottonwood Creek. 11 volunteers participated and volunteered 22 hours to clean 0.75 miles of stream bank on the south side of the creek. Keep Grand Prairie Beautiful nominated Lockheed Martin Missiles and Fire Control for the 2010 Ebby Halliday Business and Industry Award for Keep Texas Beautiful. They won and were recognized in Austin, TX, in June 2010.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>2.13 Poster and Picture Contest</b>	Host a poster and picture contest for GPISD students to encourage environmental stewardship and education.	1. Host a poster and picture contest for GPISD students	Environmental Services Department, Environmental Quality Division	Year 1

There were no required BMP activities for Year 3.

The City exceeded the goals for this Year 3 BMP.

BMP 2.13 Activities Completed

**Date:** 5/15/2010      **Responsible Party:** Echo Rexroad, Sr. Environmental Specialist  
*Solutions to Environmental Problems Art Contest*

An art contest was held for all Grand Prairie ISD K-8th grade students. All type of projects were accepted (i.e. photographs, paintings, drawings, sculptures, models, etc.). The winners (1st, 2nd, 3rd, and multiple Runner-up) were announced and their work was displayed during MayFest. Winners also received gift cards.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>2.14 Request for Drainage and Design Comments</b>	Request comments from environmental consultant on revisions to drainage and design manual.	1. Request and receive comments on revisions to drainage and design manual	Planning and Development Department	Years 2 – 5

All activities for this BMP are complete for Year 3.

BMP 2.14 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Engineering Division

*Request to Consultant*

Request comments from environmental consultant on revisions to drainage and design manual. Halff Associates prepared the 2008 update to the Drainage Design Manual. The review services of Espey Consultants, Inc. were requested on September 30, 2008 to review the drainage policies and drainage manual and make recommendations. Tom Mountz, P.E. with Espey Consultants provided comments to the city on October 3, 2008 by email to Romin Khavari, P .E. City Engineer. These comments were forwarded to Halff Associates, our consultant in charge of the 2008 Drainage Design Manual update, for review and with any warranted revisions to be incorporated into the manual update. The 2008 Drainage Design Manual update was released to the development and consultant community on December 4, 2008. In the preparation of the 2009 update to the Drainage Design Manual, review comments were received from Halff Associates, URS Corporation, AECOM, and the Texas Water Development Board. Comments from these environmental consultants were reviewed and any warranted revisions were incorporated into the manual update. The approved 2009 Drainage Design Manual update was released to the development and consultant community on November 20, 2009.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>2.15 Household Hazardous Waste (HHW) Collection Events</b>	Encourage citizens to dispose of HHW properly by participating in city hosted events	1. Maintain contract with Forth Worth annually to allow Grand Prairie citizens to drop off HHW at the Environmental collection center	Environmental Services Department, Environmental Quality Division	Years 1– 5
		2. Annually hold at least 1 HHW collection event in Grand Prairie		Years 1– 5

The City exceeded the goals for this Year 3 BMP.

BMP 2.15 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Contract with Fort Worth ECC*

The City of Grand Prairie maintained a contract with the Fort Worth Environmental Collection Center for the proper disposal of household hazardous waste. This contract allows City of Grand Prairie residents to dispose of their household hazardous waste during the regular operating hours of the collection center. In addition, the Environmental Quality Division takes all household hazardous waste collected during HHW events to the collection center.

**Date: 6/12/2010**    **Responsible Party: Environmental Quality Division**

*HHW Events*

The Environmental Quality Division held ten (10) Household Hazardous Waste events throughout the period of September 19, 2009 through June 12, 2010. During this time 1,063 residents participated in the events and ~26,000 pounds of hazardous waste products were recycled.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>2.16 Annual Environmental Compliance Achievement Awards</b>	Encourage industrial facilities to obtain industrial permit as required by the SIC code.	1. Annually recognize facilities who achieve 100% compliance	Environmental Services Department, Environmental Quality Division	Years 1– 5

All activities for this BMP are complete for Year 3.

BMP 2.16 Activities Completed

**Date: 10/28/2009**    **Responsible Party: Cheri Hebison, Sr. Environmental Specialist**

*2009 Annual Compliance Awards*

Companies were recognized for compliance with effluent limits, reporting requirements, stormwater discharge regulations, and cross connection requirements. The following businesses were recognized in the Fall H2O Line and given 100% Compliance Awards at the 2009 Environmental Compliance Annual Awards Ceremony: Lockheed Martin Missiles & Fire Control - LOSAT, Lockheed Martin Missiles & Fire Control - Marshall, Pratt & Whitney Inc. - 1177, Pratt & Whitney Inc. - 1174, Siemens Energy & Automation, Strayer-Voight, Sun Chemical, Triumph Accessory Services - Grand Prairie, Wikoff Color Corporation, and Neos Therapeutics.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>2.17 Auto Related Business (ARB) and Industrial Facility Mailing List</b>	Maintain mailing list of ARB and industrial facilities and mail out informative material.	1. Annually mail information regarding storm water BMPs	Environmental Services Department, Environmental Quality Division	Years 1– 5

All activities for this BMP are complete for Year 3.

BMP 2.17 Activities Completed

**Date: 8/13/2009**    **Responsible Party: Environmental Quality Division**

*Distribution Lists*

The City currently distributes the H2O Line newsletter to approximately 310 contacts via email using a maintained e-mail contact list. In addition, the Auto Watch newsletter is distributed to approximately 450 contacts using a maintained mailing list. This list is made up of English and Spanish speaking contacts.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>2.18 Rain Barrel Class</b>	Conduct a class that instructs citizens on how to make a rain barrel that will collect and recycle rainwater.	1. Conduct one Rain Barrel class	Environmental Services Department, Solid Waste Division	Year 1

There were no required BMP activities for Year 3.

The City exceeded the goals for this Year 3 BMP.

BMP 2.18 Activities Completed

**Date: 6/8/2010**      **Responsible Party: Public Works Department**

*Rain Barrel Classes*

The Public Works Department held Rain Barrel classes on the following dates: Sept.22, 2009 (6 participants with 12 rain barrels), April 27, 2010 (19 participants with 28 rain barrels), June 8, 2010 (7 participants with 7 rain barrels).

**MCM 3: Illicit Discharge Detection & Elimination**

A list of allowable non-stormwater discharges was *not* developed. *No* SWMP changes are needed to meet local controls, conditions, and/or programs being established for non-stormwater discharge.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.1 Create a GIS Database of the MS4</b>	Create an updated map of the locations of all outfalls and the names of all receiving US Waters, and provide the source(s) of information used to develop and update the map.	1. Review of the current drainage system map and addition of new growth once per year	Environmental Services Department, Environmental Quality Division and Information Technology Department,	Year 1 – 5

	2. Field verify 20% per year of all city stream miles for storm drain outfall locations	Years 1 – 5
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The City exceeded the goals for this Year 3 BMP.

BMP 3.1 Activities Completed

**Date:** 5/18/2010      **Responsible Party:** Engineering Division  
Year 3 MS4 Database

The outfall map with receiving US Waters is continuously reviewed and updated primarily using Engineering asbuilts and then error corrected using orthographic photos (aerials). Differences noted in the field are reported and print corrected. Outfalls are also field verified by Engineering and GIS staff using Global Positioning System. In Year 3, the criteria used to define the inspected outfalls were revised to exclude outfalls that were "pass through" outfalls (i.e. outfalls that connect one side of an underpass to the other side). At the end of Year 3, 786 outfalls were field verified out of a total of 789 outfalls. As a result, 99.6% of the outfalls in Grand Prairie have been field verified. Outfalls were field verified from 4/19/06 to 5/18/10.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.2 Complaint Database</b>	A database is kept of all citizen complaints regarding illicit discharges.	1. Maintain the complaint database	Environmental Services Department	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 3.2 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division  
Garrison

The Environmental Quality Division uses Garrison, a Web based database, to track all citizen complaints regarding stormwater.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.3 Complaint Response</b>	All citizen complaints are to be investigated.	1. Maintain a response of 80% within 5 days	Environmental Services Department	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 3.3 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*Investigate Complaints*

The Environmental Quality Division investigated well over 80% of residential complaints within five (5) working days in Year 3. Forty-eight (48) spills and 52 SSOs were investigated and resolved during this permit year.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.4 Spill Response</b>	Coordinate with the Fire Department on emergency spill response, using a private contractor for clean-up and remediation.	1. Continue response and training	Environmental Services Department	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 3.4 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Eagle SWS*

The Environmental Quality Division has a contract that took effect on April 18, 2008, with Eagle Construction and Environmental Services L.P (now Eagle SWS) for hazardous materials emergency response. This contract was extended through April 17, 2011.

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Specialist Response and Training*

Environmental Specialists from the Environmental Quality Division respond to spills, sanitary sewer overflows, and other environmental hazards 24 hours a day, 365 days a year. Specialists are continuously educated through monthly emergency responders meetings and through peer to peer training.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.5 Building Project Review Process</b>	Environmental Specialist reviews and inspects for any illicit connections or water quality hazards during the building project review process.	1. Continue to review at least 80% of new construction plans for water quality hazards	Environmental Services Department, Environmental Quality Division	Years 1 – 5

2. Continue to inspect at least 80% of Certificates of Occupancy that have a potential to impact storm water

All activities for this BMP are complete for Year 3.

BMP 3.5 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Terri Blocker, Senior Environmental Specialist  
*Plans Reviewed*

The Environmental Quality Division received 337 Building Projects in Year 3. 100% of the Projects with the potential to impact stormwater were reviewed for water quality hazards.

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division  
*Certificate of Occupancy Inspections*

The Environmental Quality Division received 601 Certificate of Occupancy applications in Year 3. 100% of the COs with the potential to impact stormwater were inspected for water quality hazards.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.6 Clean Rivers Program</b>	Participate in CRP by conducting monthly stream monitoring of 10 sites within or near the city limits. Atypical results have been investigated for illicit discharge.	1. Participate in CRP and monitor and investigate for atypical results monthly	Environmental Services Department, Environmental Quality Division	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 3.6 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division  
*Stream Monitoring*

The Environmental Quality Division has voluntarily conducted stream sampling since 1986. Currently, 22 stream sites are sampled on a monthly, quarterly, and annual basis. The data collected during these monitoring events is used to detect and eliminate illicit discharges or other threats to human and environmental health. Atypical results are identified, researched, and resolved. In addition, this stream monitoring data is provided to the Clean Rivers Program for quality monitoring, assessment, and public outreach.

A monthly summary of the stream sampling data collected in Year 3 is attached in Appendix C. A few areas of concern were identified after the sampling results were obtained. This information was used to more closely examine the areas in the respective watersheds and identify unauthorized discharges. Table 2 summarizes the actions taken to mitigate atypical stream sampling results.

**Table 2: Atypical Stream Sampling Results**

DATE	LOCATION	PARAMETER	VALUE	RESOLUTION
11/18/09	Site 7 – Dalworth Creek at Safari Pkwy	Ammonia	>5 mg/L	Traced to an SSO upstream. Blockages cleared by Water Utilities. Flushed for 24 hrs to bring ammonia to an acceptable level of 0.17 mg/L south of I30 and 0.04 mg/L further downstream and north of I 30.
3/24/10	Site 26 – Cottonwood Creek at Arkansas	Ammonia	0.72 mg/L	Traced to a SSO north of Arkansas. Cleared by Water Utilities. Ammonia level was at an acceptable 0.26 mg/L on Mar 25.
4/20/10	Lynn Creek at HWY 360 Referred by Trinity River Authority	Turbidity	900 NTU	Investigated by progressively going upstream. Traced to a horizontal gas drilling site operated by Chesapeake at 6800 S Watson Rd. There were hoses leading to Lynn Creek. The contaminant was fine grey-black clay underlying the site. Referred to City of Arlington, as the drilling location was in their jurisdiction. The drilling was stopped immediately. The clay was allowed to settle and the Turbidity came down to 12 NTU by Apr 26.
5/26/10	Site 22 – Crockett Branch at Brannon St.	Ammonia	1.2 mg/L	Traced to supermarket where an organic dumpster was overflowing. Fruits and vegetables were on the ground and the wastewater from the dumpster was draining into the nearby storm drain. They were given a citation for the improper discharge of wastewater to the storm sewer and advised to have their dumpster tipped more often. Results were 0.99 mg/L in June 2010 and 0.15 mg/L in July 2010.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.7 Sanitary Sewer Overflow Response Plan</b>	Follow the plan created and implemented for the response of Water Utilities and Environmental Services to SSOs. ESD’s response ensures the protection of the waterways through professional advice and field testing.	1. Maintain the plan for Water Utilities and Environmental Services to respond all to SSOs	Environmental Services Department, Public Works Department, Water Utilities Division	Years 2 – 5

All activities for this BMP are complete for Year 3

BMP 3.7 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Standard Operating Procedure*

The City's Water Utility and Environmental Quality Divisions respond to all sanitary sewer overflows by following a Standard Operating Procedure. Water Utility's responsibilities include, but are not limited to, cleaning, containing, and recovering sewage, and clearing, repairing, and/or replacing pipeline failures. Environmental Quality Division's responsibilities include, but are not limited to, noting visual observations and sampling for ammonia nitrogen in receiving waterbodies (if applicable). Water Utility and Environmental Quality work together to determine the cause of the overflow and the appropriate clean up response.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.8 Illicit Discharge Awareness Campaign for City Employees, Businesses, and General Public</b>	Utilize training developed by NCTCOG for informing public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste. (This BMP also addresses the minimum control measure for public education.)	1. Acquire and format NCTCOG Storm Water training materials and determine an effective means of distribution	Environmental Services Department, Environmental Quality Division	Year 2
		2. Distribute materials to city employees and 33% of potential polluting businesses and general public annually		Years 3 – 5

All activities for this BMP are complete for Year 3

BMP 3.8 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*Illicit Discharge Brochures*

Stormwater educational materials addressing illicit discharges were distributed throughout Year 3. This includes, but is not limited to, the following: An Industry's Guide for Protecting Grand Prairie's Watershed, Lawn Care Maintenance, Fat Free Sewers, A Guide for Auto Service, Repair and Maintenance Businesses, Preventing Stormwater Pollution at Construction Sites, Clean It Right, After the Storm: A Citizen's Guide to Understanding Stormwater, the AutoWatch newsletter, the Auto Related Business Ordinance, and the H2O Line.

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*ARB Posters*

Environmental Specialist distributed "7 Ways to Keep a Clean Shop" posters to Auto Related Businesses. The posters illustrated best

management practices for these facilities and were available in English and Spanish.

**Date:** 8/12/2010      **Responsible Party:** T Sury, Environmental Specialist

*City Facility Posters*

"Preventing Stormwater Pollution: What We Can Do" posters were purchased from NCTCOG in Year 2. Posters were designed to address specific City functions such as: Fleet Maintenance, Material Storage and Spill Cleanup, Parks and Grounds Maintenance, Streets and Drainage Maintenance, Land Disturbances, and Solid Waste Operations. Posters were distributed to applicable City facilities for display in Year 2 and remained at these facilities throughout Year 3.

**Date:** 8/12/2010      **Responsible Party:** T Sury, Environmental Specialist

*NCTCOG Training Video*

Presented applicable sections of "Municipal Employee Training Series. Preventing Storm Water Pollution: What We Can Do" video to 6 Airport Staff on 7/28/2010, 17 Landfill Staff members on 7/29/10, and 55 Streets Staff on 8/12/2010. These videos were created by NCTCOG.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.9 Storm Water Ordinance</b>	Develop a storm water ordinance to effectively prohibit non-storm water discharges into the storm sewer system and implement enforcement procedures and actions. (Refer to BMP 2.6) Include a description of local controls and conditions established for common and incidental non-storm water discharges not considered illicit.	1. Develop a draft ordinance	Environmental Services Department, Environmental Quality Division	Year 1
		2. Finalize ordinance		Year 2
		3. Implement ordinance		Years 3 – 5

All activities for this BMP are complete for Year 3.

BMP 3.9 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*Implemented Stormwater Ordinance*

The Stormwater Ordinance was implemented in Year 3. Multiple citations, summonses, and Notice of Violations were issued as a result of stormwater violations discovered throughout Year 3.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
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<b>3.10 Storm Water Industrial Inspection Program</b>	Require that facilities comply with any NPDES or TPDES storm water permit applicable under the SIC code.	1. Continue to provide 75% of industries the applications for coverage, when applicable	Environmental Services Department, Environmental Quality Division	Years 1 – 2
		2. Enforce failure to apply for or obtain permit coverage		Years 3 – 5
		3. Perform inspections once every 3 years		Years 3 – 5

All activities for this BMP are complete for Year 3.

BMP 3.10 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*Applications, Enforcement, and Inspections*

100% of industries were provided applications for NPDES or TPDES coverage, when applicable. Notices of Violations and/or citations were given to facilities that failed to apply for or obtain stormwater coverage. Inspections of industrial facilities are performed at least once every 3 years.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.11 Illicit Detection of Commercial and Industrial Floatables</b>	Promote the elimination of floatables from commercial and industrial facilities through inspection activities. (Refer to BMP 1.9).	1. Add floatables and litter control to the health compliance checklist	Environmental Services Department, Environmental Quality Division	Year 2
		2. Enforce efforts to remove floatables through issuance of Notice of Violations and citations for non-compliance		Years 2 – 5

All activities for this BMP are complete for Year 3.

BMP 3.11 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*Floatables Enforcement*

Environmental Specialists issued Notice of Violations and citations for floatables during inspections and complaint investigations in Year 3 of the permit.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>3.12 Litter Collection Program</b>	Keeping the major through fares clean and free of litter will reduce the amount of floatables that reach water ways. A contractor is employed to clear litter from these roadways.	1. Remove litter from major through fares weekly	Environmental Services Department, Solid Waste Division	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 3.12 Activities Completed

***Date: 8/12/2010***      ***Responsible Party: Solid Waste Division***

*Litter Collection*

Throughout Year 3, the City of Grand Prairie had a litter collection contract with Grand Prairie Disposal, DBA Republic Waste Services of Texas, Ltd. Once this contract expired, the City began a contract with the City's Special Projects Office for litter collection. Each contract requires the collection of litter from major through fares on a weekly basis. Grand Prairie Disposal (8/13/09 to 9/30/09) collected 16.76 TN in Year 3, while the Keep Grand Prairie Beautiful Litter Crew (10/1/09 to 8/12/10) collected 69.34 TN.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>3.13 Illegal Dumping Clean-Up</b>	Cleaning up debris in a timely fashion reduces the amount of illegal dumping. The city investigates all illegal dumping and ensures the removal of debris.	1. Continue efforts to remove all illegally dumped debris at least 30 days from the day the violation was reported	Planning and Development Department, Code Enforcement Division	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 3.13 Activities Completed

***Date: 8/12/2010***      ***Responsible Party: Code Enforcement Division***

*Illegal Dumping Response*

The City responded to 138 illegal dumping complaints in Year 3. Complaints included illegally dumped brush, trash, tires, furniture, hazardous waste, etc. Once on site, City staff cleaned up the debris or required the property owner or responsible party to do so. Citations and warnings were issued as necessary. Illegally dumped debris was usually removed within a week of receiving the complaint (it was always

removed within 30 days).

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>3.14 Source Assessment for Floatables</b>	A study of contributing sources of floatables will be used in source abatement. This might include an assessment of materials from clean-ups, an assessment of illegal dumps, or other similar studies.	1. Develop a plan	Environmental Services, Environmental Quality Division	Year 2
		2. Conduct an assessment of floatables		Years 3
		3. Compile assessment results and analyze data		Year 4
		4. Use assessment in re-focus of education efforts and enforcement efforts		Year 5

All activities for this BMP are complete for Year 3.

BMP 3.14 Activities Completed

***Date: 2/27/2010***      ***Responsible Party: Echo Rexroad, Sr. Environmental Specialist***

*Floatables Assessment*

Two floatable assessments were conducted in Year 3. On February 6, 2010, five (5) surveys were collected during a clean-up of Fish Creek at 1350 West Bardin Road in Grand Prairie. On February 27, 2010, five (5) surveys were collected during a clean-up of Johnson Creek at 2620 East Avenue K in Grand Prairie.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>3.15 Illicit Discharge Detection and Elimination</b>	Develop a program to detect and address non-storm water discharges, including illegal dumping, into the storm sewer system. Standard operating procedures will be developed for the detection of and elimination of	1. Identify additional program requirements and resource/ training needs	Environmental Services Department, Environmental Quality Division	Year 2

	2. Create a project plan and an assessment, enforcement, and elimination process and acquire needed resources	Year 3
	3. Conduct dry weather screening of 20% of city's outfalls per year	Year 1 – 5

All activities for this BMP are complete for Year 3.

BMP 3.15 Activities Completed

**Date:** 7/30/2010      **Responsible Party:** Echo Rexroad, Sr. Environmental Specialist

*Project Plan and Resources*

Echo Rexroad developed a project plan for illicit discharge detection and elimination. The plan includes an assessment, enforcement, and elimination process for illicit discharges. In addition, the resources needed for the project plan (i.e. Storm Drain Kit, extendable pole, etc.) were purchased or replaced as necessary.

**Date:** 8/6/2010      **Responsible Party:** Environmental Quality Division

*Dry Weather Screening*

During Year 3, the Environmental Quality Division revised the criteria for determining which outfalls were inspected to those that 1) are 36" or larger, 2) are not a "pass through" outfall (e.g. an outfall that connects one side of an underpass to the other side), and 3) drain directly into a waterbody. This revision was approved via email by the TCEQ (Appendix D). As a result, 171 of 789 or 22% of the City's outfalls were inspected for anomalies in Year 3 (Appendix E). The inspector looked for and reported issues such as erosion, siltation, debris, vegetation, structure damage, and illicit discharges.

<i>BMP</i>	<i>BMP Description</i>	<i>Measurable Goals</i>	<i>Responsibility</i>	<i>Target Date</i>
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<b>3.16 Joe Pool Lake Reservoir Surface Water Sampling</b>	Sample the inlets of the reservoir that are influenced by the city's MS4 to determine the water quality of the MS4 at this sensitive water supply system.	1. Determine at least 3 sampling points	Environmental Services Department, Environmental Quality Division	Year 2
		2. Acquire needed supplies for sampling		Year 3
		3. Monitor selected inlets annually		Years 4 – 5

All activities for this BMP are complete for Year 3.

BMP 3.16 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*Sampling Supplies*

The City has purchased all of the supplies needed for sampling. Supplies are purchased on an as needed basis. The same equipment and chemicals used for the City's monthly stream sampling will be used for the Joe Pool Lake sampling.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.17 Beach Sampling Program</b>	Help reduce health risk to the visitors of Joe Pool Lake swim beaches by minimizing the public's exposure to diseases in the water.	1. Follow an SOP for beach sampling once a month during the summer or swimming months	Environmental Services Department, Environmental Quality Division	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 3.17 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Beach Sampling SOP*

The beach sampling standard operating procedure is followed during sampling events.

**Date:** 8/12/2010      **Responsible Party:** T Sury, Environmental Specialist

*Joe Pool Lake Beach Sampling Results*

Table 3 is a summary of the sampling data collected at Loyd Park in Year 3.

**Table 3: Results for Loyd Park Beach Sampling**

<b>Loyd Park E. Coli Sampling Results</b>		
<b>Date</b>	<b>Location</b>	<b>Result MPN / 100ML</b>
8/24/2009	West	<2
	Middle	20
	East	6
9/21/2009	West	238
	Middle	119
	East	231
5/27/2010	West	8
	Middle	90
	East	523
6/21/2010	West	<2
	Middle	2
	East	6
7/22/2010	West	8
	Middle	16
	East	32
<b>Aug 09 – Jul 10</b>	<b>Geom Mean E. Coli</b>	<b>20.7</b>

Notes:

1. Results that are less than reportable limits are conservatively treated as being at detection limits (i.e. <2 is 2).
2. The spike in Sep 09 is attributable to rain events prior to and during the sampling.
3. The spike in May 09 is abnormal as it is confined to one corner of the swimming area. This is attributable to some localized activity in the area or sampling error. The re-sampling in June showed a remarkable improvement.
4. The recommended limits are 394 MPN/100 mL for single samples and 206 MPN/100 mL for contact recreation.
5. The results are generally indicative of an acceptable water quality for contact recreation.

Table 4 is a summary of the sampling data collected at Lynn Creek in Year 3.

**Table 4: Results for Lynn Creek Beach Sampling**

<b>Lynn Creek Park E. Coli Sampling Results</b>		
<b>Date</b>	<b>Location</b>	<b>Result MPN / 100ML</b>
8/24/2009	West	15
	Middle	4
	East	<2
9/21/2009	West	20
	Middle	41
	East	41
5/27/2010	West	12
	Middle	19
	East	10
6/21/2010	West	32
	Middle	49
	East	17
7/22/2010	West	12
	Middle	19
	East	10
<b>Aug 08 – Jul 09</b>	<b>Geom Mean E. Coli</b>	<b>15.2</b>

Notes:

1. Results that are less than detection limits are conservatively treated as being at detection limits (i.e. <2 is 2).
2. The recommended limits are 394 MPN /100 mL for single samples and 206 MPN/100 mL for contact recreation.
3. The results are generally indicative of an acceptable water quality for contact recreation.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
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<b>3.18 Rapid Bioassessment Program</b>	Better understand water quality impacts by comparing habitat and biological conditions with existing physical water quality data.	1. Develop a rapid bioassessment plan	Environmental Services Department, Environmental Quality Division	Year 3
		2. Acquire necessary training and supplies		Year 4
		3. Begin rapid bioassessment program; monitor 3 sites annually		Year 5

All activities for this BMP are complete for Year 3.

BMP 3.18 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Echo Rexroad, Sr. Environmental Specialist

*Benthic Macroinvertebrate Sampling Project Plan*

A project plan was developed for sampling benthic macroinvertebrates. The plan includes a project design, locations for sampling, sampling condition criteria, equipment list, and field and laboratory procedures.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>3.19 On Site Sewage System Permitting</b>	On site sewage systems are regulated through an ordinance and permitted by the city. Failing septic systems are identified and abated.	1. Maintain the permitting of sewage systems  2. Respond to onsite sewage systems within 10 days of receiving complaint and enforce as necessary	Environmental Services Department, Environmental Quality Division	Years 1 – 5  Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 3.19 Activities Completed

**Date:** 11/13/2009      **Responsible Party:** Werner Rodriguez, Sr. Environmental Specialist

*Complaints*

Only one (1) complaint regarding onsite sewage systems was received in Year 3. A Notice of Violation was given to the responsible party.

**Date:** 4/30/2010      **Responsible Party:** Terri Blocker, Senior Environmental Specialist

*Permitted OSSF*

Only one (1) OSSF was permitted in Year 3.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
<b>3.20 Mobile Vehicle Wash Business Policy</b>	The City's policy on mobile vehicle wash business will be revised to better discourage illicit discharges.	1. Revise and approve the policy	Environmental Services Department, Environmental Quality Division	Year 2

There were no required activities for Year 3 for this BMP.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
<b>3.21 Auto Inspection Program</b>	Develop inspection program for auto-related businesses.	1. Develop program and ordinance  2. Inspect at least 75% of auto-related businesses annually	Environmental Services Department, Environmental Quality Division	Years 1 – 5

The City exceeded the goals for this Year 3 BMP.

BMP 3.21 Activities Completed

***Date: 8/13/2009***      ***Responsible Party: Environmental Quality Division***

*ARB Ordinance*

The City has an Automotive Related Business Regulations ordinance (Article XX, Sections 13-530 through 13-552) used to regulate the automotive related businesses in Grand Prairie.

***Date: 8/12/2010***      ***Responsible Party: Environmental Quality Division***

*ARB Inspections*

The Environmental Quality Division and Code Enforcement Division inspected 100% of the auto-related businesses in Grand Prairie in 2009, during which inspectors ensured ARBs were in compliance with local, state, and federal stormwater regulations. From January 2010 to October 2010, 473 of 543 or 87.10% of the ARB inspections were completed.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
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<b>3.22 Sampling Manual</b>	A manual will be created that will define and standardize all storm water sampling and monitoring procedures.	1. Create sampling manual and provide a copy to at least 80% of Environmental Quality Division Staff and technicians	Environmental Services Department, Environmental Quality Division	Year 1
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There are no required activities for this BMP for Year 3.

#### **MCM 4: Construction Site Storm Water Runoff Control**

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>4.1 Review Infrastructure Plans and Designs</b>	Require designers to include design of erosion control measures and approved BMPs in plans and specifications in all projects in compliance with and requiring compliance with the TPDES Construction General Permit and all local and State regulations.	1. Continue to require erosion control plans and BMP details in engineering plan submittals	Planning and Development Department	Years 1 – 5

All activities for this BMP are complete for Year 3.

#### BMP 4.1 Activities Completed

***Date: 8/12/2010***      ***Responsible Party: Planning and Development Department***

#### *Review Infrastructure Plans and Designs*

Engineering requires designers to submit drainage and erosion control plans to the City prior to any construction activity performed within the City boundaries. In the reviewing process, engineering can determine the effectiveness of the drainage and erosion control measures in each plan and make any necessary comments to have the plan modified and or changed by the designer to reduce to the maximum extent practicable potential site specific erosion control concerns. By using a system to count the number of drainage plans, the Planning and Development Department is able to keep track of potential construction activities. 48 Drainage and Erosion Control Plans were approved in Year 3

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
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<b>4.2 Inspect Erosion Control Measures</b>	Inspection of the infrastructure and effectiveness of the required erosion control measures used on applicable construction projects.	1. Continue to inspect general erosion control measures during baseline or annual inspections	Planning and Development Department	Years 2 – 3
		2. Document any violations and provide follow-up inspections within 10 days of the notice of violation, ensuring enforcement of permit provisions	Planning and Development Department	Years 3 – 5

All activities for this BMP are complete for Year 3.

BMP 4.2 Activities Completed

**Date: 8/12/2010**      **Responsible Party: Engineering Division**

*Inspect Erosion Control Measures*

Inspection of the infrastructure and effectiveness of the required erosion control measures used on applicable construction projects:

(1) Continue to inspect general erosion control measures during baseline or annual inspections. Permits are issued to owners and operators based on the construction and erosion control plans submitted to and approved by the City. Design of erosion control measures and approved BMPs in plans and specifications in all projects must be in compliance with the TPDES Construction General Permit and all local and State regulations. Prior to any land disturbing activity all erosion control devices and BMPs must be in place according to the approved plan. Tracking the number of erosion control measure inspections that are performed allows the City to ensure sites are being monitored. A total of 1,284 erosion control measure inspections were performed in Year 3.

**Date: 8/12/2010**      **Responsible Party: Planning and Development Department, Engineering Inspectors**

*Document Violations and Follow Up*

(1) Prior to any land disturbing activity, all erosion control devices and BMPs must be in place in accordance with the approved EC Plan and SWPPP (if applicable). By tracking the number of erosion control inspections, the City ensures sites are being monitored and the necessary steps are being maintained to ensure compliance. These inspections will continue on each project or site until stabilization threshold has been achieved. For this reporting period, 1,284 erosion control inspections were performed. (2) All inspections performed by the engineering inspectors that are non-compliant with the approved erosion control plan are documented in the engineering database by the inspector. The engineering inspector notifies the contractor at the time of the inspection and addresses the violation/s. Non-compliance issues are addressed and re-inspected within 10 days of the inspection findings. During this reporting period 22 non compliance issues were addressed and reinspected.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
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<b>4.3 Earthwork Permit</b>	Issue permits for site grading, when necessary, to reduce the impact to neighboring properties, downstream flooding, or channel erosion.	1. Continue to issue permits as needed	Planning and Development Department, Engineering Division	Years 1 – 5
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All activities for this BMP are complete for Year 3.

BMP 4.3 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Planning and Development Department, Engineering Division  
*Earthwork Permits Approved and Issued*

Permits are issued to owners and operators based on the grading and erosion control plans submitted to and approved by the City. Design of erosion control measures and approved BMPs in plans and specifications in all projects must be in compliance with the TPDES Construction General Permit and all local and State regulations. Prior to any land disturbing activity, all erosion controls must be in place according to the approved plan. By tracking the number of earthwork permits that are issued, the City is able to monitor sites and take the necessary steps to maintain compliance before activities begin. 63 Earthwork permits were approved and issued during this reporting period.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>4.4 Storm Water Pollution Prevention Plan during Construction</b>	A Storm Water Pollution Prevention Plan (SWP3) is required on all applicable construction projects in accordance with the regulatory authorities' permit process. A copy of the NOI or Construction Site Notice on all applicable construction projects shall be required.	1. A copy of the NOI from the contracting authority must be provided before a construction permit can be issued	Planning and Development Department	Years 3 – 5

All activities for this BMP are complete for Year 3.

BMP 4.4 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Planning and Development Department  
*Storm Water Pollution Prevention Plan during Construction*

Each construction site that has received a building or construction permit is required to produce a SWPPP in accordance with the TPDES general permit for construction, if applicable. The City requirement is for the owner/operator to provide a copy of the NOI and construction Site Notice to the City based on Unified Development Code 14.3.2. By providing these documents to the City, it shows that the owner/operator has met the guidelines established by the State and Local regulations. With the NOI and Site Notice presented to the City the site activity may commence and begin a monitoring process to make sure the SWPPP is being followed and that the SWPPP and erosion control devices are reducing the amount of sediment discharge to the maximum extent practicable. A total of 45 NOI's were submitted to the City in Year 3. Of these 45 NOI's, 37 were for non-municipal construction activities (Table 5).

**Table 5: Non-Municipal Construction Activities**

<i>Number of Non-Municipal Construction Activities Within Jurisdiction of Permittee</i>
37

<i>BMP</i>	<i>BMP Description</i>	<i>Measurable Goals</i>	<i>Responsibility</i>	<i>Target Date</i>
<b>4.5 Complaint response</b>	Citizen complaints regarding sediment and other development pollutants are investigated.	1. Continue to investigate at least 80% of complaints within 15 working days with priority complaints investigated sooner	Planning and Development Department	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 4.5 Activities Completed

*Date: 8/12/2010      Responsible Party: Planning and Development Department*  
*Complaint Response*

The Planning and Development Department has in place a Standard Procedure for Drainage and Erosion Control Complaints. This procedure requires designated individuals to register the complaint, locate the area of concern, take the appropriate steps to bring the area back into compliance, and inform the complainant of the resolution. Complaints are usually responded to within 15 working days from receipt and priority complaints are investigated sooner. A total of 10 complaints were received in Year 3, of which 9 or 90% were investigated within 15 working days from the day the complaint was received.

<i>BMP</i>	<i>BMP Description</i>	<i>Measurable Goals</i>	<i>Responsibility</i>	<i>Target Date</i>
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<b>4.6 Construction Ordinance</b>	Work with the Environmental Services Department to include in the City of Grand Prairie Storm Water Ordinance (Refer to BMP 3.9) provisions to meet the legal authorities necessary to comply with permit requirements for Construction Site Storm Water Runoff Control. Ordinance will require contractors to implement erosion and sediment control BMPs and to control construction site waste.	1. Assign Staff and obtain information for draft ordinance	Planning and Development Department, Engineering Division	Year 1
		2. Develop a draft ordinance		Year 2
		3. Finalize ordinance		Year 3
		4. Implement ordinance		Year 3

All activities for this BMP are complete for Year 3.

BMP 4.6 Activities Completed

*Date: 8/13/2009      Responsible Party: Environmental Quality Division*  
*Stormwater Ordinance*

On July 7, 2009, the Stormwater Ordinance was approved by City Council and implementation began.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>4.7 Site Development Plan Reviews</b>	Enhance review of site development plans to include water quality considerations, including a review of erosion control plans and proposed approved BMPs. Any amendments to the site plan review procedures will conform to the Storm Water Ordinance and post construction requirements.	1. Assign Staff and obtain information for site plan review procedures	Planning and Development Department	Year 1
		2. Revise and adopt the site plan review procedures		Year 2
		3. Amend site plan review procedures as necessary and implement compliance requirements		Year 3

All activities for this BMP are complete for Year 3.

BMP 4.7 Activities Completed

*Date: 8/12/2010      Responsible Party: Planning and Development Department*

*Site Development Plan Reviews*

The current Site Plan Approval process included in Article 16, Site Plan Approval, and in Article 17, Concept Plans, was reviewed by Bill Crolley, Ron McCuller, Romin Khavari, Rob Ard, Kevin Lasher, Kathe Houk and Chris Agnew. Proposed revised articles 16 and 17 were prepared and were approved by the Planning and Zoning Commission on August 3, 2009 and were approved by the city council on August 18, 2009. The amended site plan review procedures were implemented, effective August 18, 2009.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>4.8 Recording and Public Complaint Response</b>	Refine the system for recording and responding to calls from the public. This approach will include clarifying responsibilities, procedures, recordkeeping, and follow-up.	1. Assign and train Staff	Planning and Development Department	Year 1
		2. Prepare a memorandum of understanding clarifying responsibilities, procedures, recordkeeping, and follow-up on calls from the public		Year 2
		3. Implement		Year 3

All activities for this BMP are complete for Year 3.

BMP 4.8 Activities Completed

***Date: 8/13/2009***      ***Responsible Party: Planning and Development Department***

*Recording and Public Complaint Response*

A draft procedure for drainage and construction general permit complaint response was prepared and circulated to staff for review and comment. A meeting among stakeholders was held for feedback and an approved procedure was adopted. The approved procedure describes the procedure for handling all drainage complaints including those on construction sites concerning erosion and sediment pollution of the MS4. Responsibilities for initial complaint response, inspection and effecting corrective action are identified. The procedure for drainage and construction general permit complaint response was implemented February 5, 2009.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
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<b>4.9 Redefine the Construction Site Inspection Program</b>	Redefine the construction site inspection program by developing a system to assign inspectors, track training requirements, establish schedules of inspections, establish recordkeeping procedures, and define enforcement procedures. The existing inspection program will be upgraded to reflect the redefined construction site inspection program. Compliance with the Storm Water Ordinance will be insured by the use of non-monetary penalties, fines, bonding requirements, permit denial, stop work orders, and holding of Certificate of Occupancy until full compliance.	1. Redefine the inspection program and complete a memorandum of understanding concerning inspector assignments and enforcement procedures, training requirements, and record keeping processes	Planning and Development Department	Year 3
		2. Complete training of all departmental construction site inspectors. Initiate a program to formally train new inspectors by the end of their first year of their inspection assignment		Year 4
		3. Include in the inspection activities the additional sanctions provided by adoption of the Storm Water Ordinance		Year 5

All activities for this BMP are complete for Year 3.

BMP 4.9 Activities Completed

**Date:** 1/4/2010      **Responsible Party:** Planning and Development Department

*Redefine Construction Site Inspection Program*

All new projects that have permits for construction are entered into the Development database and the engineer inspectors receive a copy of the permit and approved set of plans. When the inspector visits the site he makes sure that all BMPs are in place (if applicable) and records each erosion control inspection in the development database under the assigned project number for that particular site. The inspection report will reflect whether or not an erosion control inspection was performed on the day of a site visit. When an erosion control inspection is performed, the inspector will verify the site conditions based from the approved erosion control plan, document their findings in the report, and get with the site superintendent to correct any BMP violations. At any time during erosion control inspections, the inspector has the ability in the reporting process to send an email notification to the contractor of noncompliance. At such time the contractor will have to correct any violations associated with the approved erosion control plan. Once the violations have been corrected the inspector will report his

findings as acceptable. If no action has been taken to correct the violations, actions by the inspector are escalated via email to the contractor which can and will result in work stoppage and issued citations. A memorandum of understanding was drafted 10/21/2009. A meeting with the building inspectors was held on 11/19/2009 and a meeting with the engineering inspectors was held on 12/10/2009 to discuss the proposed memorandum of understanding. Feedback was received. The memorandum of understanding was finalized, completed, and implemented on 1/4/2010.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
<b>4.10 Construction Site Storm Water Public Education Program</b>	Coordinate a public education program with Environmental Services Division to provide information to construction site operators regarding the requirements of the Construction General Permit and the MS4 General Permit.	1. Add internet links concerning Construction Site BMPs and Storm Water to the Grand Prairie website	Planning and Development Department	Year 2
		2. Create fact sheets and distribute to developers and homebuilders regarding requirements for permitting and pollution prevention		Year 3

All activities for this BMP are complete for Year 3.

BMP 4.10 Activities Completed

***Date: 4/9/2010***      ***Responsible Party: Planning and Development Department***  
*Storm Water Public Education Program*

A brochure was created in an English and Spanish version to explain the need for pollution prevention in the community and explain to the developers and homebuilders how to apply for a Construction General Permit and the requirements for developing a Storm Water Pollution Prevention Plan if required for their project. The brochure was linked on 4/9/2010 to the City Website for developers, homebuilders, and the general public to view. The brochure is also distributed at the Development Center and by Planning Staff.

**MCM 5: Post Construction Storm Water Management in New Development & Redevelopment**

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>5.1 Development Review Process</b>	All development plans are reviewed for compliance with floodplain requirements, for adequacy of infrastructure design for drainage, and for use of detention ponds.	1. Continue to review at least 80% of development plans for mitigation of impact	Planning and Development Department, Engineering Division	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 5.1 Activities Completed

***Date: 8/12/2010***      ***Responsible Party: Planning and Development Department, Engineering Division***  
*Development Review Process*

All development plans are reviewed for compliance with floodplain requirements, for adequacy of infrastructure design for drainage, and for use of detention ponds. The review of these plans is used in the mitigation of impact. The number of plans that have been approved reflect that the impact on post construction runoff will be minimal to the detention areas as well as the impact to floodplains associated with the site, if applicable. The review process at times may require a drainage plan to be modified several times by the engineer to allow the BMPs to operate at the maximum extent practicable. There were 113 drainage plans approved in Year 3.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>5.2 Stream Buffer Preservation</b>	Encourage the preservation of natural channels and the 100 year floodplain.	1. Continue to encourage the preservation of stream buffers during plan reviews by requiring dedication of drainage or floodplain management easements for the 100-year floodplain	Planning and Development Department	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 5.2 Activities Completed

***Date: 8/12/2010***      ***Responsible Party: Planning and Development Department***  
*Stream Buffer Preservation*

All development plans are reviewed for compliance with floodplain requirements, for adequacy of infrastructure design for drainage, and for use of detention ponds. The review of these plans is used in the mitigation of impact. The preservation of stream buffers during plan reviews is encouraged by requiring the dedication of drainage or floodplain management easements for the 100-year floodplain. Using an integrated approach to deal with storm water quality protection, stream bank protection, and flood control requirements, the City is striving to use the

natural drainage system which will mean as little maintenance as possible. By implementing controls after all site design and nonstructural options have been exhausted, the City's purpose is to create structural controls that are multi-purpose and aesthetically integrated into a site's design, while realizing that each site, project, and watershed presents different challenges and opportunities. The City encourages the preservation of natural hydrology and drainage ways and the reduction of impervious cover with associated runoff and pollutants. The goal is to make efficient use of the natural features of the sites to prevent storm water impact at the maximum extent practicable.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
<b>5.3 Storm Water Design Criteria and Methods</b>	Adopt storm water design criteria and methods that integrate considerations for drainage and water quality for post construction BMPs. An internal committee will evaluate the implementation of the manuals by Grand Prairie and propose their adoption with any amendments thereto.	1. Appoint Staff to evaluate and make recommendations	Planning and Development Department	Years 2
		2. Research information through benchmarking and attending NCTCOG meetings and training seminars		Years 2
		3. Adopt the policies and design criteria as needed		Year 3
		4. Affected city departments and divisions will implement the policy and design criteria manuals as adopted		Year 4

All activities for this BMP are complete for Year 3.

**BMP 5.3 Activities Completed**

***Date: 11/20/2009      Responsible Party: Planning and Development Department***

***Storm Water Design Criteria and Methods Adoption***

The policies and design criteria were adopted on 11/18/2008 (Year 2). Affected City Departments and Divisions implemented the policy and design criteria manuals as adopted (12/4/2008 and again on 11/20/2009). A NCTCOG iSWM coordination committee of Ron McCuller, Director of Public Works, Romin Khavari, P.E., City Engineer and Christian Agnew, P.E., Assistant Storm Water Utility Manager was designated to attend COG meetings, review iSWM manual criteria and recommendations, and consider addressing iSWM manual issues in the 2008 drainage design manual update. Halff Associates was contracted to review benchmark cities drainage criteria and manual requirements, review the iSWM manual for site development, review public, City and consultant comments on the 2006 Drainage Design Manual and prepare the 2008 Drainage Design Manual update. Previous public, City and consultant comments together with iSWM and benchmark issues were furnished to Halff Associates for preparation of the proposal for the contract and the first draft. Halff Associates produced a draft of the

2008 Drainage Design Manual and submitted it to the city on September 24, 2008. An internal review committee of Ron McCuller, Romin Khavari, Chris Agnew, Joe Sherwin, and outside consultant group Lopez Garcia and Espey Consultants, Inc. reviewed the draft of the manual and provided comments to Halff Associates. UDC Article 14 and 15 and the 2008 Drainage Design Manual were approved by City Council on November 18, 2008. The revised 2008 Drainage Design Manual with revised stormwater design criteria and methods was adopted for use and implemented December 4, 2008. In 2009, feedback was received from staff and the engineering community concerning needed Drainage Design Manual revisions. The revised 2009 Drainage Design Manual was adopted by City Council on September 15, 2009 and implemented November 20, 2009.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
<b>5.4 Revise Policies and Design Criteria in the Unified Development Code</b>	Revise the Unified Development Code as needed to include requirements and revised standards. An internal committee will evaluate the Unified Development Code and design criteria, propose amendments thereto to support water quality objectives, and update as necessary.	1. Appoint Staff to evaluate and make recommendations	Planning and Development Department	Year 2
		2. Research information through benchmarking and attending NCTCOG meetings and training seminars; head an internal committee		Year 2
		3. Adopt the amendments to the Unified Development Code		Year 3
		4. The affected city departments and divisions will implement the revisions to the Unified Development Code		Year 4

All activities for this BMP are complete for Year 3.

BMP 5.4 Activities Completed

**Date:** 11/20/2009      **Responsible Party:** Planning and Development Department

*Adopt Revised Policies and Design Criteria in the UDC*

The policies and design criteria of the Unified Development Code were adopted on 11/18/2008 (Year 2). The affected City departments and divisions implemented the adopted policy and design criteria manuals on 12/4/2008 and again 11/20/2009. A NCTCOG iSWM coordination committee of Ron McCuller, Director of Public Works, Romin Khavari, P.E., City Engineer and Christian Agnew, P.E., Assistant Storm

Water Utility Manager was designated to attend COG meetings, review iSWM manual criteria and recommendations, and consider addressing iSWM manual issues in the 2008 drainage design manual update. Halff Associates was contracted to review benchmark cities drainage criteria and manual requirements, review the iSWM manual for site development, review public, City and consultant comments on the 2006 Drainage Design Manual and prepare the 2008 Drainage Design Manual update. Previous public, City and consultant comments together with iSWM and benchmark issues were furnished to Halff Associates for preparation of the 2008 drainage Design Manual. The Development Review Committee (DRC) chaired by Kevin Lasher, reviewed the proposed UDC amendments to Articles 14 and 15 which comprise the Drainage Design Manual and recommended approval on October 30, 2008. The proposed amendments to UDC Article 14 and 15 were approved by the Planning and Zoning Commission and subsequently approved by the City Council on November 18, 2008. The revised 2008 Drainage Design Manual with revised stormwater design criteria and methods was adopted for use and implemented December 4, 2008. In 2009, feedback was received from staff and the engineering community concerning needed Drainage Design Manual revisions. The revised 2009 Drainage Design Manual was adopted by City Council on September 15, 2009 and implemented November 20, 2009.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
<b>5.5 Long term operation and maintenance of BMPs</b>	Perform periodic inspections on existing post construction BMPs and work with the owners to provide needed maintenance and repairs. Failure to perform maintenance and repairs directed by the city may result in penalties.	1. Document all inspections and violations	Planning and Development Department	Year 3
		2. Develop guidance documents for developers and other responsible parties addressing maintenance and operation responsibilities, stressing the importance of proper maintenance for water quality and quantity control and ensuring proper maintenance activities are conducted		Year 3

All activities for this BMP are complete for Year 3.

**BMP 5.5 Activities Completed**

**Date: 6/15/2010**      **Responsible Party: Planning and Development Department**  
*Guidance for Developers and Others*

A guidance document for long term operation and maintenance of BMPs was drafted for developers and other responsible parties. The document: 1) addresses maintenance and operation responsibilities; 2) stresses the importance of proper maintenance for water quality and quantity control; and 3) ensures maintenance activities are conducted. Also, a property owner inspection list and agreement was drafted for review. Draft policies and agreement were approved by Assistant City Attorney Steve Alcorn on 4/7/2010. The review committee of Bill

Crolley, Director of Planning and Development, Romin Khavari, P .E., City Engineer, Ron McCuller, Director of Public Works, Christian Agnew, P.E., Assistant Storm Water Utilities Manager and David McKee, Environmental Investigator met and reviewed the proposed documents and provided final comment on 3/29/2010. The documents were incorporated into a proposed amendment to Article 14 "Drainage" of the Uniform Development Code (UDC) and the 2010 Drainage Design Manual. The Development Review Committee (DRC) chaired by Kevin Lasher, reviewed and recommended approval of the amended Article 14 on May 20, 2010. The proposed amendments were approved by the Planning and Zoning Commission and subsequently approved by the City Council on June 15, 2010 and went into effect June 15, 2010 for all developments in the city.

**Date:** 8/12/2010      **Responsible Party:** Planning and Development Department

*Inspections and Violations*

On August 31, 2009 the city completed its post construction BMP identification list in the City's GIS. A total of 223 detention/retention basins were identified city wide. The city established a 2 year inspection goal to provide an inspection of all the identified post construction BMPs. Inspections of the post construction BMPs began September 8, 2009 and are currently being performed. Inspection of the detention/retention basins consist of 8 categories to inspect: detention/retention basins, structural controls, inlet or outlet blockage, siltation, erosion, vegetation, algae growth, and oily sheen. As of August 12, 2010, 40 post construction BMP inspections have been performed. No significant maintenance or repair issues were identified with these 40 post construction BMP inspections.

**MCM 6: Pollution Prevention & Good Housekeeping for Municipal Operations**

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>6.1 Storm Water Management Program Data Tracking</b>	Track all city activities related to the Storm Water Management Program through a data tracking program.	1. Purchase and utilize software	Environmental Services Department,	Year 1
	Software will be utilized to assist with the tracking.	2. Create annual report	Environmental Quality Division	Year 2

There are no activities listed for this BMP for Year 3.

BMP 6.1 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Environmental Quality Division

*Data Tracking with Asist*

The Asist software is used to manage the SWMP BMPs.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
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<b>6.2 Existing SWP3s</b>	Three existing SWP3s are maintained for the Airport, the Landfill, and the Service Center, as required by the general permit TXR05000.	1. Maintain and update SWP3s for the permits at the three existing regulated facilities	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Review the SWP3s annually for any changes required		Years 1 – 5
		3. Inspect all three sites annually		Years 1 – 5
		4. Ensure that required annual SWP3 training is conducted		Years 2 – 5

All activities for this BMP are complete for Year 3.

**BMP 6.2 Activities Completed**

***Date: 12/18/2009      Responsible Party: T Sury, Environmental Specialist***

***Annual Inspections***

Annual comprehensive compliance inspections were conducted for each MSGP City facility. The Airport was inspected on 12/17/09, the Landfill was inspected on 12/16/09, and the Service Center was inspected on 12/17/09 and 12/18/09.

***Date: 8/12/2010      Responsible Party: T Sury, Environmental Specialist***

***SWPPP Updates and Review***

The City updates and reviews the SWPPPs for the Landfill, Airport, and Service Center annually or as needed:

Landfill - There were no changes to the SWPPP in Year 3. The last change was in May 2009, when the site map was modified to include the new Material Storage Building.

Airport - There were no changes to the SWPPP in Year 3. The last change was in May 2009, when the site map was modified to include the detention pond.

Service Center - There were no changes to the SWPPP in Year 3. The last change was in May 2009, when the site map was modified to include the detention pond and remove the oil water separator site.

***Date: 8/12/2010      Responsible Party: T Sury, Environmental Specialist***

*Quarterly Visual Inspection*

The three City facilities regulated by the general permit TXR05000 are the Municipal Airport, Landfill, and Service Center. In addition to the inspections performed at these facilities for the purpose of maintaining and updating their corresponding SWPPPs, outfalls at each facility are monitored during qualifying rainfall events on a quarterly basis. The Airport was monitored on 10/5/09, 1/28/10, 4/2/10, and 7/2/10. The Service Center was monitored on 7/27/09 (Year 2), 10/25/09, 1/29/10, and 5/14/10. The Landfill was monitored on 7/31/09 (Year 2), 10/22/09, 1/29/10, and 5/14/10.

**Date:** 8/12/2010      **Responsible Party:** T Sury, Environmental Specialist

*NCTCOG Training Video*

Presented applicable sections of "Municipal Employee Training Series. Preventing Storm Water Pollution: What We Can Do" video to 6 Airport Staff on 7/28/2010, 17 Landfill Staff members on 7/29/10, and 55 Streets Staff on 8/12/2010. These videos were created by NCTCOG. (Also see BMP 3.8.)

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>6.3 Storm Sewer and Drainage Maintenance Program</b>	Conduct maintenance along the inlets, ditches, pipes, and channels for structural improvements when noted through citizen complaints and through field observations. Use permanent vegetation to stabilize disturbed soil.	1. Hire a crew of 3 to maintain storm sewer and drainage	Public Works Department, Streets Division	Years 1 – 5
		2. Respond to 100% of citizen complaints		Years 1 – 5
		3. Track storm sewer and drainage maintenance		

All activities for this BMP are complete for Year 3.

BMP 6.3 Activities Completed

**Date:** 8/12/2010      **Responsible Party:** Public Works Department

*Tracking Maintenance*

Storm sewer and drainage maintenance was tracked for Year 3. Maintenance included 21 different type of activities conducted as a result of citizen complaints, field observations, and regular City storm sewer maintenance.

**Date:** 8/12/2010      **Responsible Party:** Public Works Department

*Crew*

The Public Works Department maintained employment for a crew of three in order to perform structural improvements along storm sewer inlets, ditches, pipes, and channels. This crew is made up of a crew leader and 2 equipment operators. The names change daily depending on the schedule. Needed improvements are noted through citizen complaints and field observations.

**Date:** 8/12/2010      **Responsible Party:** Public Works Department

*Complaint Response*

The Public Works Department responded to 100% of citizens' complaints in Year 3. Response included cleaning, clearing, seeding, and overall maintenance of the storm sewer systems. 628 response actions were taken in Year 3 as a result of 109 issues, including response from complaints and field observations.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
<b>6.4 Disposal of Waste Removed from the MS4</b>	Develop a standard operating procedure for the disposal of waste removed from the MS4, including any dredged soil, accumulated sediments, and floatables.	1. Develop an SOP for waste disposal	Environmental Services, Environmental Quality Division	Year 2

There are no activities listed for this BMP for Year 3.

<i><b>BMP</b></i>	<i><b>BMP Description</b></i>	<i><b>Measurable Goals</b></i>	<i><b>Responsibility</b></i>	<i><b>Target Date</b></i>
<b>6.5 Storm Water Pollution Prevention Guidelines for all City Activities</b>	Develop pollution prevention guidelines for selected city activities not covered by a specific TPDES permit. Training materials will be developed from NCTCOG Storm Water training materials, as indicated by BMP 3.8.	1. Identify target audience and activities for the pollution prevention plan	Environmental Services Department, Environmental Quality Division	Year 2
		2. Review Phase 1 city SWP3s as well as suggested EPA and TCEQ BMPs		Year 2
		3. Design the SWPP materials for selected city employees		Years 3 – 4
		4. Begin developing, purchasing and disseminating SWPP materials to selected city employees annually		Years 5

All activities for this BMP are complete for Year 3.

BMP 6.5 Activities Completed

***Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division  
Preventing Stormwater Pollution Training*

During the City facility inspections, it was determined that due to the nature of the work performed by the Fire Department, pollution prevention training was needed at the Fire Department facilities. The "Preventing Stormwater Pollution: Fleet Maintenance and Material Handling" video was viewed by 24 Fire Department staff in Year 3.

**Date:** 8/12/2010      **Responsible Party:** T Sury, Environmental Specialist

*NCTCOG Training Video*

Purchased training video from NCTCOG. Presented applicable sections of "Municipal Employee Training Series. Preventing Storm Water Pollution: What We Can Do" video to 6 Airport Staff on 7/28/2010, 17 Landfill Staff members on 7/29/10, and 55 Streets Staff on 8/12/2010. These videos were created by NCTCOG. (Also see BMP 3.8.)

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>6.6 Promotion of Native or Adaptive Vegetation Along Floodplain Easements</b>	Promote good storm water filtration and natural uptake of possible nutrient pollutants by native and/or adaptive vegetation.	1. Identify at least 2 areas to promote native vegetation	Environmental Services Department, Environmental Quality Division and Public Works Department,	Year 2
		2. Choose location and design for signage and formalize sign budget	Streets Division	Year 3
		3. Install at least 1 sign for each area and define management area		Year 4 – 5
		4. Identify future areas suitable for promotion of vegetation as the city continues to develop		Year 5

All activities for this BMP are complete for Year 3.

BMP 6.6 Activities Completed

**Date:** 8/6/2010      **Responsible Party:** Echo Rexroad, Sr. Environmental Specialist

*Sign Location, Design, and Budget*

The City of Grand Prairie will install the Native & Adaptive signs at the Nature Center and Equipment Services. The Nature Center will undergo construction in Year 4; as a result, if needed, the Nature Center sign may be moved to the City's linear park. The sign design was created in Year 3. In addition, two 36 x 48 inch signs were printed and purchased in Year 3.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>6.7 Mosquito Management Program</b>	Maintain mosquito management methods that will not result in illicit discharges to the MS4.	1. Maintain integrated mosquito management methods when handling and applying pesticides	Environmental Services Department, Environmental Quality Division	Years 1 – 5
		2. Use low toxicity bio-controls for larvae control		Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 6.7 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Low Toxicity Bio-Controls*

Gambusia affinis fish are used in bodies of water with mosquito breeding problems. This biological control provides an abatement program directed primarily toward the prevention, elimination, or control of aquatic sources leading to the production of mosquitoes capable of disease transmission. Bactimos Briquettes and Agnique MMF (MonoMolecular Film) are also used. Bactimos Briquettes is a biological larvicide containing Bacillus thuringiensis israelensis, which kills only mosquito larvae (EPA registration No. 6218-47) and has a toxicity category of “Caution”. Agnique MMF (MonoMolecular Film) is a biodegradable, alcohol ethoxylated surfactant (EPA registration No. 2302-14, 53263-28) made from renewable plant oils. This film interrupts the critical air/water interface in the mosquito’s larval and pupal development cycle causing them to drown and has a toxicity category of “Caution”.

**Date:** 8/13/2009      **Responsible Party:** Environmental Quality Division

*Integrated Mosquito Management*

The Environmental Quality Division's mosquito control plan is based on comprehensive Integrated Pest Management (IPM) which includes, but is not limited to, mosquito and disease surveillance, source reduction, complaint investigations, public education, biological control (mosquito fish production) and larval and adult mosquito control and insecticide resistance management.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>6.8 Street Sweeping</b>	Remove solid pollutants from the streets to avoid contamination of the storm sewer system.	1. Sweep major thoroughfares on an annual basis and more often on high traffic roads	Environmental Services Department, Solid Waste Division	Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 6.8 Activities Completed

**Date:** 8/13/2009      **Responsible Party:** Solid Waste Division

*Street Sweeping*

The City has a contract with Flagship Sweeping Services, Inc. for all street sweeping activities. Flagship Sweeping Services, Inc. cleans curbs, gutters, median curbs, road shoulders, gore points and turning lanes located throughout the City. Cleaning operations include sweeping, panning, dumping and trash pick up operations. Depending on area, streets are cleaned on a weekly, semiannual, and annual basis.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>6.9 Inspect City Facilities</b>	Inspect city facilities for Best Management Practices.	1. Inspect 25% of city facilities annually	Environmental Services Department, Environmental Quality Division	Years 2 – 5

All activities for this BMP are complete for Year 3.

BMP 6.9 Activities Completed

**Date:** 7/29/2010      **Responsible Party:** T Sury, Environmental Specialist

*City Facility Inspections*

T Sury inspected 25% of the 28 City facilities selected for this program. The facilities inspected in Year 3 were Fire Stations 1-7.

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>6.10 Storm Sewer and Drainage Maintenance Program for the Dallas County Flood Control District #1 (excluding the City of Grand Prairie – see MCM 6.3)</b>	Conduct maintenance and improvements for the drainage components owned by the Dallas County Flood Control District #1 when noted through written complaints and through field observations.	1. Respond to written complaints within the District	Dallas County Flood Control District #1	Years 1 – 5
		2. Perform annual maintenance reviews and prepare report		Years 1 – 5
		3. Make necessary repairs to District facilities		Years 1 – 5

All activities for this BMP are complete for Year 3.

BMP 6.10 Activities Completed

**Date:** 7/30/2010      **Responsible Party:** Dallas County Flood Control District #1

*Complaints, Reviews, and Repairs*

No written complaints were filed in Year 3. No repairs were done in the Grand Prairie portion of the DCFCD#1 for Year 3. The annual maintenance review was conducted in May 2010, and the report was prepared in July 2010.

<b><i>BMP</i></b>	<b><i>BMP Description</i></b>	<b><i>Measurable Goals</i></b>	<b><i>Responsibility</i></b>	<b><i>Target Date</i></b>
<b>6.11 Disposal of Waste Removed from the MS4 for the Dallas County Flood Control District #1 (excluding the City of Grand Prairie – see MCM 6.4)</b>	Develop a standard operating procedure for the disposal of waste removed from the Dallas County Flood Control District #1's storm water system.	1. Develop a SOP for waste disposal	Dallas County Flood Control District #1	Year 2

No activities are listed for this BMP for Year 3.

## Part VI. Certification

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 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code 305.128 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

*City of Grand Prairie*

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

*Dallas County Flood Control District #1*

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

## **APPENDIX A: Interlocal Agreement**

STATE OF TEXAS            )  
COUNTY OF DALLAS        )

INTERLOCAL AGREEMENT BETWEEN CITY OF GRAND PRAIRIE  
AND THE DALLAS COUNTY FLOOD CONTROL DISTRICT #1  
CONCERNING JOINT SUBMISSION OF THE STORM WATER MANAGEMENT  
PROGRAM

This agreement is between the City of Grand Prairie, by and through its duly authorized City Manager, and the Dallas County Flood Control District #1, by and through its President. It is an Interlocal Agreement between two political subdivisions within the State of Texas, authorized in Chapter 791 of the Texas Government Code, and concerning an item of mutual interest and importance. This Interlocal Agreement for the joint submission of a Storm Water Management Program to satisfy the requirements of the permit application to the Texas Commission on Environmental Quality (TCEQ) for compliance with Texas Pollutant Discharge Elimination System (TPDES) General Permit No. TXR040000 relating to storm water discharges associated with small municipal separate storm sewer systems is made and entered into by and between the City of Grand Prairie, Texas (hereafter referred to as the "**CITY**"), and the Dallas County Flood Control District #1 (hereafter referred to as the "**DISTRICT**").

WHEREAS, the **CITY** and the **DISTRICT** mutually desire to enter into an **AGREEMENT** to partner with each other in the joint submission of a Storm Water Management Program to the TCEQ for compliance with Phase II requirements; and

WHEREAS, the parties recognize the joint benefits in the joint submission of a Storm Water Management Program; and

NOW, THEREFORE, FOR AND IN CONSIDERATION OF THE MUTUAL COVENANTS SET OUT HEREIN, the City of Grand Prairie and the Dallas County Flood Control District #1 agree as follows:

1. The **CITY** and the **DISTRICT** agree to a joint submission of a Storm Water Management Program to the TCEQ in compliance with Phase II requirements.
2. The **CITY** and the **DISTRICT** agree that services related to the inspection and maintenance of **DISTRICT** owned storm water systems within the **DISTRICT** boundaries, as noted in Attachment 1, will continue to be the financial responsibility of the **DISTRICT**.
3. The **CITY** and the **DISTRICT** agree that the **CITY** will perform all of the required portions of the Storm Water Management Program in regards to: the minimum control measures within the City of Grand Prairie including within the limits of the **DISTRICT**, with the exception of MCM 6.3 and MCM 6.4, as denoted in the Storm Water

Management Program. The **DISTRICT's** specific responsibilities are defined in MCM 6.10 and MCM 6.11, as shown in Attachment 2, relating to the maintenance of drainage components and disposal of waste removed from the MS4, as denoted in the Storm Water Management Program.

4. The **CITY** and the **DISTRICT** agree that the **DISTRICT** will provide detailed information on **DISTRICT** activities within the **DISTRICT** boundaries in the City of Grand Prairie to the **CITY** by October 1 of each year for the next five (5) years, in an electronic format so that the **CITY** may complete its annual report to the TCEQ.

5. The parties represent by the execution of this document that they have authority to act, and that the appropriate body has taken action to approve this contract.

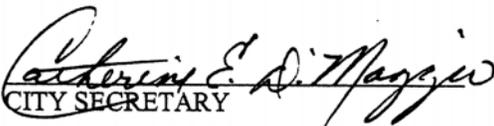
6. Neither party intends by entry into this agreement to waive any immunity that it might have in the performance of its governmental duties.

Executed on this 5<sup>th</sup> day of February, 2008.

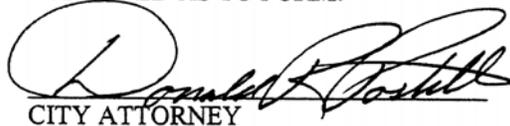
CITY OF GRAND PRAIRIE

by:   
Printed Name: TOM COX  
Title: Deputy City Manager

ATTEST:

  
CITY SECRETARY

APPROVED AS TO FORM:

  
CITY ATTORNEY

DALLAS COUNTY FLOOD CONTROL DISTRICT #1

by:   
Printed Name: ROBERT M. NELSON  
Title: PRESIDENT

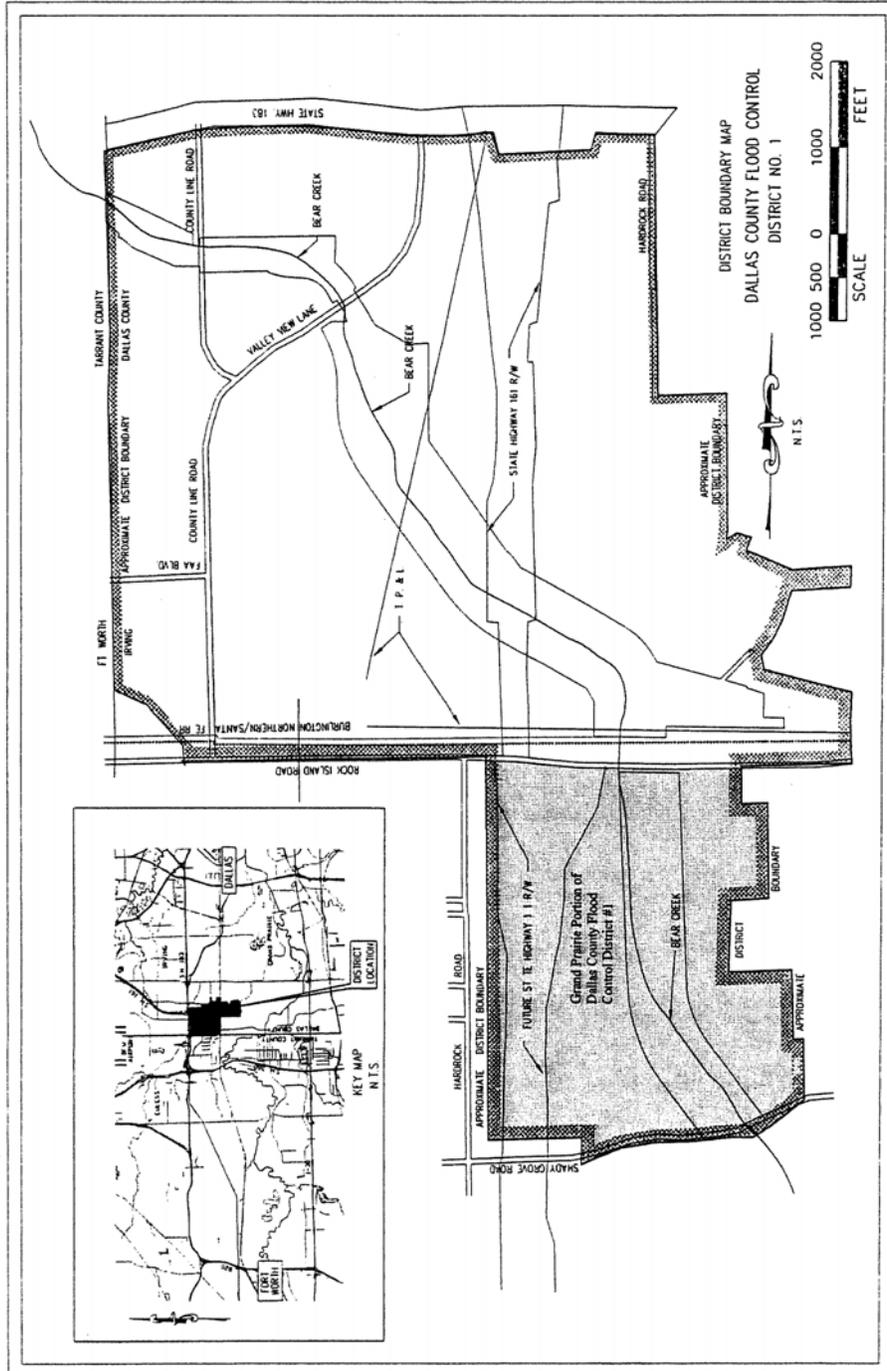
ATTEST:

by: Cassie Huchinson

APPROVED AS TO FORM:

Joe Petran  
ATTORNEY FOR THE DALLAS COUNTY FLOOD CONTROL DISTRICT #1

# ATTACHMENT I



**ATTACHMENT 2**

**MCM 6. Pollution Prevention/Good Housekeeping for Municipal Operations**

40 CFR 122.34 (b) (6) –Develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

**Selected BMPs for Pollution Prevention/Good Housekeeping for Municipal Operations**

<b>BMP</b>	<b>BMP Description</b>	<b>Measurable Goals</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>6.1 Storm Water Management Program Data Tracking</b>	Track all city activities related to the Storm Water Management Program through a data tracking program. Software will be utilized to assist with the tracking.	1. Purchase and utilize software	Environmental Services Department,	Year 1
		2. Create annual report	Environmental Quality Division	Year 2
<b>6.2 Existing SWP3s</b>	Three existing SWP3s are maintained for the Airport, the Landfill, and the Service Center, as required by the general permit TXR05000.	1. Maintain and update SWP3s for the permits at the three existing regulated facilities	Environmental Services Department,	Years 1 – 5
		2. Review the SWP3s annually for any changes required	Environmental Quality Division	Years 1 – 5
		3. Inspect all three sites annually		Years 1 – 5
		4. Ensure that required annual SWP3 training is conducted		Years 2 – 5

<b>6.3 Storm Sewer and Drainage Maintenance Program</b>	Conduct maintenance along the inlets, ditches, pipes, and channels for structural improvements when noted through citizen complaints and through field observations. Use permanent vegetation to stabilize disturbed soil.	1. Hire a crew of 3 to maintain storm sewer and drainage 2. Respond to 100% of citizen complaints 3. Track storm sewer and drainage maintenance	Public Works Department, Streets Division	Years 1 – 5
				Years 1 – 5
<b>6.4 Disposal of Waste Removed from the MS4</b>	Develop a standard operating procedure for the disposal of waste removed from the MS4, including any dredged soil, accumulated sediments, and floatables.	1. Develop an SOP for waste disposal	Environmental Services, Environmental Quality Division	Year 2
<b>6.5 Storm Water Pollution Prevention Guidelines for all City Activities</b>	Develop pollution prevention guidelines for selected city activities not covered by a specific TPDES permit. Training materials will be developed from NCTCOG Storm Water training materials, as indicated by BMP 3.8.	1. Identify target audience and activities for the pollution prevention plan	Environmental Services Department, Environmental Quality Division	Year 2
		2. Review Phase 1 city SWP3s as well as suggested EPA and TCEQ BMPs		Year 2
		3. Design the SWPP materials for selected city employees	Environmental Services Department, Environmental Quality Division	Years 3 – 4
		4. Begin developing, purchasing and disseminating SWPP materials to selected city employees annually		Years 5
<b>6.6 Promotion of Native or Adaptive Vegetation Along Floodplain Easements</b>	Promote good storm water filtration and natural uptake of possible nutrient pollutants by native and/or adaptive vegetation.	1. Identify at least 2 areas to promote native vegetation	Environmental Services Department, Environmental Quality Division and Public Works Department, Streets Division	Year 2
		2. Choose location and design for signage and formalize sign budget		Year 3

			<p>3. Install at least 1 sign for each area and define management area</p> <p>4. Identify future areas suitable for promotion of vegetation as the city continues to develop</p>		<p>Year 4 – 5</p> <p>Year 5</p>
<b>6.7 Mosquito Management Program</b>	Maintain mosquito management methods that will not result in illicit discharges to the MS4.	<p>1. Maintain integrated mosquito management methods when handling and applying pesticides</p> <p>2. Use low toxicity bio-controls for larvae control</p>	<p>Environmental Services Department, Environmental Quality Division</p>	<p>Years 1 – 5</p> <p>Years 1 – 5</p>	
<b>6.8 Street Sweeping</b>	Remove solid pollutants from the streets to avoid contamination of the storm sewer system.	<p>1. Sweep major thorough fares on an annual basis and more often on high traffic roads</p>	<p>Environmental Services Department, Solid Waste Division</p>	<p>Years 1 – 5</p>	
<b>6.9 Inspect City Facilities</b>	Inspect city facilities for Best Management Practices.	<p>1. Inspect 25% of city facilities annually</p>	<p>Environmental Services Department, Environmental Quality Division</p>	<p>Years 2 – 5</p>	
<b>6.10 Storm Sewer and Drainage Maintenance Program for the Dallas County Flood Control District #1 (excluding the City of Grand Prairie – see MCM 6.3)</b>	Conduct maintenance and improvements for the drainage components owned by the Dallas County Flood Control District #1 when noted through written complaints and through field observations.	<p>1. Respond to written complaints within the District</p> <p>2. Perform annual maintenance reviews and prepare report</p> <p>3. Make necessary repairs to District facilities</p>	<p>Dallas County Flood Control District #1</p>	<p>Years 1 – 5</p> <p>Years 1 – 5</p>	
<b>6.11 Disposal of Waste Removed from the MS4 for the Dallas County Flood Control District #1 (excluding the City of Grand Prairie – see MCM 6.4)</b>	Develop a standard operating procedure for the disposal of waste removed from the Dallas County Flood Control District #1's storm water system.	<p>1. Develop a SOP for waste disposal</p>	<p>Dallas County Flood Control District #1</p>	<p>Year 2</p>	

## **APPENDIX B: TCEQ Correspondence #1**

Addendum sent to the TCEQ via e-mail on August, 13, 2008



## Addendum

**August 13, 2008**

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This addendum modifies and supplements the City of Grand Prairie's Storm Water Management Program developed in response to the TPDES Phase II MS4 General Permit (TXR040000).

- BMP 1.1, Environmental Education Specialist

*Current:* Years 2-5, Employ an Environmental Education Specialist who will actively seek to broaden educational opportunities within the school district and the city. Conduct 2 storm water outreach activities annually.

*Revision:* Remove entire BMP

*Justification:* BMP is not a required element for the SWMP. With current economic conditions, it is unlikely the City will be able to fill this position within the next few years.

- BMP 1.11, Funding for Elementary School Curriculum on Storm Water Quality

*Current:* Purchase Major Rivers© or similar curriculum for additional fifth grade Grand Prairie ISD classrooms

*Revision:* Purchase Major Rivers© or similar curriculum **as needed** for additional fifth grade Grand Prairie ISD classrooms

*Justification:* Adel Quintana, the Science Program Coordinator for Grand Prairie Independent School District, informed the City that GPISD did not need additional copies of Major Rivers this year. By adding "as needed" to the measurable goal, the City will not be required to purchase additional curriculum unnecessarily.

- BMP 2.1, Public Notice in Development of SWMP

*Current:* 1) Participate in a 15 minute Grand Prairie cable show that highlights the SWMP and invites the public to make comments and 2) Provide a copy of the document for comment to at least one of the environmental compliance workshops

*Revision:* Remove these two measurable goals from this BMP. This will leave the following goals: 1) Continue to make the document available for comments on the city website and at the Environmental Services Department office and 2) Make presentations to applicable city council committees

*Justification:* While we may have accomplished these goals, we have no supporting documentation.

- BMP 2.2, Texas Watch Volunteer Stream Monitoring Program

*Current:* **Years 1-5**, Hold at least 1 Texas Watch training session for volunteers or corporations annually

*Revision:* **Years 2-5**, Hold at least 1 **Texas Stream Team** training session for volunteers or corporations annually

*Justification:* Under the assumption we can use previous years' accomplishments, we have technically accomplished this goal for Year 1. In addition, two City employees were trained in Year 1 and are set to train students at Reagan Middle School in August or September of 2008. However, unforeseen circumstances (i.e. transfer of responsibility to new employee, training of new employee, availability of volunteers during school months, etc.) hindered expected training events.

Texas Watch is now called Texas Stream Team.

- BMP 2.3, Master Composter Program

*Current:* 1) **Years 1-5**, Conduct 2 Master Composter classes per year and 2) Years 1-5, Distribute yard care educational materials to at least 20 Master Composter participants annually

*Revision:* 1) **Year 1**, Conduct 2 Master Composter classes per year and 2) Years 1-5, Distribute yard care educational materials to at least 20 Master Composter participants annually

*Justification:* The City of Grand Prairie has hosted a Master Composter class annually for over 10 years and has trained approximately 700 people during that time. Recent trends have demonstrated less interest in this class, and as a result, it has become increasingly difficult to find individuals willing to participate. Due to the lack of interest, the Solid Waste Division has determined that hosting two classes per year is not financially realistic.

- BMP 2.4, Storm Drain Markers

*Current:* Years 2-5: Purchase and have installed through volunteer help **200** of the city's unmarked storm drain curb inlets annually

*Revision:* Years 2-5: Purchase and have installed through volunteer help **100** of the city's unmarked storm drain curb inlets annually

*Justification:* This Years 2-5 activity may prove to be more difficult than originally thought. While we provided 310 markers for placement, only 71 markers were actually placed this year. The reason for this was said to be the great number of extracurricular activities the volunteers were participating in this year. 100 markers may be a more reasonable goal. If the goal of 100 is not met, remaining markers may be placed by City personnel.

- BMP 4.2, Inspect Erosion Control Measures

*Current:* **Years 1-2**, Continue to inspect general erosion control measures during baseline or annual inspections

*Revision:* **Years 2-3**, Continue to inspect general erosion control measures during baseline or annual inspections

*Justification:* The Planning and Development Department includes the City's Engineering Division and Building

Inspections Division. While both of these Divisions have continued to inspect general erosion control measures during baseline or annual inspections, only the Building Inspections Division has a current method of documenting this activity through a computer system that they use for their Building Inspections work. The Engineering Division has been working with the City's Information Technology staff to develop a computer database specific to taking care of engineering needs and to document BMP activities. This database is in the final stages of modifications and will be implemented for reporting and providing documentation by the end of Year 2.

*E-mail sent to TCEQ on August 13, 2008 with above addendum attached*

**From:** Echo Rexroad  
**Sent:** Wednesday, August 13, 2008 3:26 PM  
**To:** 'SWGPA@tceq.state.tx.us'  
**Cc:** Echo Rexroad  
**Subject:** City of Grand Prairie SWMP Addendum

**Attachments:** SWMPAddendum.doc  
To Whom It May Concern:

Please find the attached addendum to the City of Grand Prairie's Storm Water Management Program.

If possible, please send a response to this email confirming receipt of this addendum.

Best regards,

Echo Rexroad  
Senior Environmental Specialist  
City of Grand Prairie  
972.237.8082

*E-mail from TCEQ confirming receipt of August 13, 2008 Addendum*

**From:** Kim Wilson [KWILSON@tceq.state.tx.us]  
**Sent:** Thursday, August 14, 2008 10:00 AM  
**To:** Echo Rexroad  
**Subject:** Re: City of Grand Prairie SWMP Addendum  
Mr. Rexroad-

I am the reviewer assigned to Grand Prairie and am in receipt of this addendum.

>>> "Echo Rexroad" <erexroad@GPTX.org> 8/13/2008 3:25 PM >>>  
To Whom It May Concern:

Please find the attached addendum to the City of Grand Prairie's Storm Water Management Program.

If possible, please send a response to this email confirming receipt of this addendum.

Best regards,

Echo Rexroad  
Senior Environmental Specialist  
City of Grand Prairie  
972.237.8082

*E-mail from Gordon Cooper, with the TCEQ, requesting revisions to MCM 4 and 5*

**From:** Gordon Cooper [mailto:GCooper@tceq.state.tx.us]  
**Sent:** Monday, September 08, 2008 9:38 AM  
**To:** Cindy Mendez  
**Subject:** MS4 SWMP Review for the City of Grand Prairie

Ms. Mendez,

My name is Gordon Cooper and I am the permit writer who is reviewing the SWMP for the City of Grand Priarie MS4 permit application.

Upon reviewing the SWMP I have found that there is some additional information that will be required to complete this review process.

**MCM 4 –**

**Required Elements and/or BMPs:**

- Please provide additional information of how the program that will be developed to comply with the required elements for this MCM (4) will address storm water runoff from construction activities of one acre and greater including activities at sites that are part of a larger common plan of development.

**MCM 5 –**

**Required Elements and/or BMPs:**

- Please provide additional information how the program will address storm water runoff from new development / redevelopment activities of one acre and greater including the larger common plan of development.

Please update your SWMP with this information and send a response to this information request back to me via e-mail within 2 weeks of the date of this e-mail. If there is a specific reason why this information is not needed and not included in the SWMP, please indicate why for each MCM addressed by this request in an e-mail response.

If you need any additional information please feel free to contact me at: Gordon Cooper, TCEQ Water Quality Division, 512-239-1963.

Thank you very much,

Gordon Cooper  
Environmental Permit Specialist I  
TCEQ Water Quality Division  
Storm Water &  
Pretreatment Team (MC 148)  
P.O Box 13087  
Austin, TX 78711-3087  
Phone: 512-239-4671  
Fax: 512-239-4430

*Email sent to Gordon Cooper, with the TCEQ, with revisions to MCM 4 and 5*

**From:** Echo Rexroad  
**Sent:** Tuesday, September 16, 2008 5:09 PM  
**To:** 'Gordon Cooper'  
**Cc:** Cindy Mendez  
**Subject:** RE: MCM 4 and 5 and Fact Sheet

**Attachments:** SWMP to TCEQ Final.pdf; SWMPAddendum.doc; Re City of Grand Prairie SWMP Addendum.htm

Hello Mr. Cooper,

Please find the attached revised City of Grand Prairie SWMP, addendum, and email from Kim Wilson stating she is in receipt of the addendum.

In addition to the changes described in the attached addendum, we have also revised the SWMP to include the following statements for MCM 4 (page 25) and MCM 5 (page 29):

MCM 4:

*The following selected BMPs for Construction Site Storm Water Runoff Control apply to 1) construction activities of one acre and greater and 2) construction activities at sites that are part of a larger common plan of development (where the total disturbed area is equal to one acre or greater).*

MCM 5:

*The following selected BMPs for Post-Construction Management in New Development and Redevelopment apply to 1) new development / redevelopment activities of one acre and greater and 2) new development / redevelopment activities at sites that are part of a larger common plan of development (where the total disturbed area is equal to one acre or greater).*

We have also reviewed the Notice of Application you provided. In the first sentence, where the application states “City of Grand Prairie, 201 **North West** 2<sup>nd</sup> Street...”, it should say “City of Grand Prairie, 201 **Northwest** 2<sup>nd</sup> Street...” Other than that one minor change, no other revisions are needed.

Thank you for your time. We look forward to hearing from you again.

Sincerely,

Echo Rexroad  
Senior Environmental Specialist  
City of Grand Prairie  
972.237.8082

## **APPENDIX C: Monthly Stream Summary**

# Monthly Results

# August 2009

<i>Stream Site Number</i>	<i>Date</i>	<i>Time</i>	<i>Sample ID #</i>	<i>Air Temperature</i>	<i>Water Temperature</i>	<i>pH</i>	<i>Turbidity</i>	<i>Dissolved Oxygen</i>	<i>Ammonia</i>	<i>Fecal Strep</i>	<i>Fecal Coliform</i>
17	8/18/2009	10:00	GP09SW-299	28	27	7.68	35	5.25	0	82	18
23	8/18/2009	12:45	GP09SW-304B32		28.1	7.97	11	5.16	0.07	200	18
22	8/18/2009	11:50	GP09SW-302	32	27.1	7.87	6.8	4.26	0.05	9600	16700
9	8/18/2009	10:55	GP09SW-295	29	27.3	7.98	9.3	6.29	0.08	10	54
23	8/18/2009	12:45	GP09SW-304A32		28.1	7.97	11	5.16	0.07	45	45
20	8/18/2009	9:05	GP09SW-312	28	25.9	7.81	20	4.09	0.17	1182	400
28	8/18/2009	8:10	GP09SW-310	28	25.7	7.31	7.7	4.37	0.17	510	582
27	8/18/2009	7:45	GP09SW-308	27	24.4	6.69	8.1	3.64	0.23	890	2100
12	8/18/2009	10:30	GP09SW-297	28	25.1	7.64	7.5	4.57	0.14	930	1718
11	8/19/2009	9:30	GP09SW-296	28	26.1	8.1	16	6.43	0.22	500	1609
19	8/19/2009	1:00	GP09SW-301	33	29.2	8.16	22	6.91	0.03	18	45
25	8/19/2009	10:15	GP09SW-306	29	28.9	7.82	7	4.58	0.06	127	73
3	8/19/2009	7:45	GP09SW-290	26	28.8	7.02	20	4.14	0.07	220	64
8	8/19/2009	11:00	GP09SW-294A32		27.4	7.92	7.6	4.31	0.09	400	480
26	8/19/2009	9:15	GP09SW-307	28	24.1	7.83	7	6.28	0.03	240	64
24	8/19/2009	8:50	GP09SW-305	27	26.8	7.64	9.2	8.53	0.13	240	200
18	8/19/2009	11:20	GP09SW-300	32	28	7.92	65	5.24	0	64	9
8	8/19/2009	11:00	GP09SW-294B32		27.4	7.92	7.6	4.31	0.09	340	909
6	8/19/2009	8:10	GP09SW-292	27	28.4	7.87	23	5.23	0.1	1127	370
5	8/19/2009	8:25	GP09SW-291	27	27.6	7.99	21	4.79	0.04	45	73

# Monthly Results

# September 2009

<i>Stream Site Number</i>	<i>Date</i>	<i>Time</i>	<i>Sample ID #</i>	<i>Air Temperature</i>	<i>Water Temperature</i>	<i>pH</i>	<i>Turbidity</i>	<i>Dissolved Oxygen</i>	<i>Ammonia</i>	<i>Fecal Strep</i>	<i>Fecal Coliform</i>
12	9/22/2009	10:38	GP09SW-335	19	20.4	7.43	13	6.65	0.17	2000	6500
27	9/22/2009	8:10	GP09SW-346	17	19.9	6.77	12	7.24	0.32	2600	2800
28	9/22/2009	8:26	GP09SW-347	17	19.9	6.77	13	7.24	0.29	980	2700
30	9/22/2009	8:57	GP09SW-349	17	19.2	7.69	110	4.88	0.2	4700	3400
23	9/22/2009	11:59	GP09SW-342	22	21.9	7.5	30	5.55	0.12	770	4100
20	9/22/2009	9:17	GP09SW-340	17	20.9	7.79	55	5.07	0.14	4600	350
19	9/22/2009	1:06	GP09SW-339	22	22.9	7.94	190	5.68	0.08	600	420
29	9/22/2009	9:39	GP09SW-348	17	19.7	7.64	24	5.05	0.09	700	600
15	9/22/2009	10:26	GP09SW-336	19	23	8.05	38	6.65	0.25	2100	7100
9	9/22/2009	10:59	GP09SW-333B	19	20.4	7.43	30	5.11	0.17	1682	1482
9	9/22/2009	10:59	GP09SW-333A	19	20.4	7.43	30	5.11	0.17		
7	9/22/2009	8:14	GP09SW-331	16	17.3	6.96	150	7.79	0.55	21300	300
22	9/22/2009	11:59	GP09SW-341	22	24.2	7.71	8.9	5.44	0.49	200	64
17	9/22/2009	10:09	GP09SW-337	18	23	8.05	20	6.65	0.25	45	27
3	9/24/2009	8:41	GP09SW-328	15	18.5	7.43	45	12.05	0.2	780	5800
6	9/24/2009	8:51	GP09SW-330	16	21	7.52	45	11.23	0.13	730	2200
5	9/24/2009	9:07	GP09SW-329	16	18.9	7.62	12	11.23	0.1	530	209
26	9/24/2009	10:00	GP09SW-345	18	18.6	7.72	8.2	10.03	0.1	2500	2800
25	9/24/2009	9:49	GP09SW-344	17	19.2	7.5	11	10.03	0.15	850	3400
8	9/24/2009	10:45	GP09SW-332B	18	21.9	7.61	11	9.43	0.16	670	430
8	9/24/2009	10:45	GP09SW-332A	18	21.9	7.61	11	9.13	0.16	630	736
18	9/24/2009	11:02	GP09SW-338	18	22.3	7.85	38	10.02	0.09	100	145
24	9/24/2009	9:31	GP09SW-343	17	19.2	7.5	12	10.3	0.35	1000	2800
11	9/24/2009	10:28	GP09SW-334	18	19.5	7.75	17	9.86	0.07	1309	3500

# Monthly Results

## October 2009

Stream Site Number	Date	Time	Sample ID #	Air Temperature	Water Temperature	pH	Turbidity	Dissolved Oxygen	Ammonia	Fecal Strep	Fecal Coliform
19	10/20/2009	12:55	GP10SW-01226		19.8	7.94	190	15.89	0.02	154	220
30	10/20/2009	8:45	GP10SW-022	17	17.3	7.93	27	15.59	0.17	970	91
29	10/20/2009	9:30	GP10SW-021	18	17.1	7.79	24	15.57	0.12	880	64
28	10/20/2009	8:14	GP10SW-020	17	17.4	7	9.4	14.58	0.21		
27	10/20/2009	9:55	GP10SW-019	16	17.2	6.88	3.5	14.53	0.21	590	280
23	10/20/2009	12:16	GP10SW-01523		19.3	7.58	16	15.56	0.15	410	145
20	10/20/2009	9:10	GP10SW-013	18	17.7	8.14	7.7	15.54	0.28	2900	10
17	10/20/2009	10:04	GP10SW-01020		19	8.19	16	17.43	0.11	36	10
15	10/20/2009	10:16	GP10SW-00921		18.4	7.58	21	12.47	0.19	870	290
12	10/20/2009	10:30	GP10SW-00821		18.1	7.57	4.4	13.01	0.13	2000	1400
11	10/20/2009	11:25	GP10SW-00723		18.9	7.75	12	14.26	0.15	1136	440
9	10/20/2009	10:48	GP10SW-006B		22	18.6	7.73	20	15.39	0.09	
9	10/20/2009	10:48	GP10SW-006A		22	18.6	7.73	20	15.39	0.09	600 250
22	10/20/2009	11:08	GP10SW-01422		18.6	7.63	6.4	10.61	0.15	4100	1236
24	10/27/2009	10:20	GP10SW-01614.5		14.4	7.8	24	9.1	0.26	14300	7600
8	10/27/2009	11:44	GP10SW-005B		17	16.8	7.78	12	8.25	0.34	16200 2600
3	10/27/2009	8:43	GP10SW-001	10	13.6	7.69	33	9.92	0.23	8500	5400
5	10/27/2009	10:00	GP10SW-00211		14.2	7.81	26	9.53	0.2	9800	6400
6	10/27/2009	9:40	GP10SW-003	10	14.5	7.89	120	8.3	0.25	6700	2300
18	10/27/2009	12:00	GP10SW-01117		17.1	7.84	50	9.34	0.2	700	182
25	10/27/2009	10:43	GP10SW-01721.5		14.2	7.57	7.6	9.29	0.32	9000	5500
26	10/27/2009	10:55	GP10SW-01814.5		14.4	7.84	8.9	8.68	0.18	15100	5600
7	10/27/2009	8:10	GP10SW-004	15	14	6.95	9.6	9.23	0.27	11800	4200
8	10/27/2009	11:44	GP10SW-005A		17	16.8	7.78	12	8.25	0.34	11700 2000

# Monthly Results

# November 2009

Stream Site Number	Date	Time	Sample ID #	Air Temperature	Water Temperature	pH	Turbidity	Dissolved Oxygen	Ammonia	Fecal Strep	Fecal Coliform
28	11/7/2009	9:35	GP10SW-049	49	13.6	6.58	18.1	8.64	0.27	12400	8900
3	11/16/2009	9:15	GP10SW-030	47	10.2	6.29		8.89	0	400	627
20	11/17/2009	11:10	GP10SW-04255		14.8	7.2	1071	9.78	0.2	300	10
27	11/17/2009	9:30	GP10SW-048			6.51		7.17	0.08	10700	11200
17	11/17/2009	12:35	GP10SW-03958		15.3	6.75	16	9.45	0.06	45	64
15	11/17/2009	13:10	GP10SW-03859		19	6.54	35.6	4.44	0.19	2600	9600
12	11/17/2009	14:15	GP10SW-03760		16.9	7.13	19.6	7.49	0.12	4000	5300
29	11/17/2009	11:25	GP10SW-05058		14.8	6.91	7.82	9.8	0.14	100	10
30	11/17/2009	10:40	GP10SW-05112.9		12.9	6.51	8.6	9.16	0.11	118	220
9	11/17/2009	1:35	GP10SW-035	59	13.8	6.57	21.8	8.07	0.2	11700	9900
8	11/17/2009	1:35	GP10SW-035	59	13.8	6.57	21.8	8.47	0.2		
24	11/18/2009	12:10	GP10SW-04566		14.9	6.55		8.39	0.2	118	220
26	11/18/2009	11:25	GP10SW-04762		13	6.45		9.6	0.13	940	636
6	11/18/2009	9:38	GP10SW-032	51	13.3	6.45		8.31	0.15	145	530
25	11/18/2009	11:50	GP10SW-04662		14.1	6.41		4.92	0.14	580	2400
22	11/18/2009	10:30	GP10SW-04359		12.4	6.56		7.38	0.13	230	2300
19	11/18/2009	14:35	GP10SW-041		16.4	6.72		8.6	0.12	260	609
18	11/18/2009	14:10	GP10SW-04070		16.1	6.65		9.7	0.04	154	209
8	11/18/2009	13:50	GP10SW-34A68		18	6.56		7.18	0.22	870	230
7	11/18/2009	14:15	GP10SW-03355		11.5	6.56		5.29		620000	
23	11/18/2009	13:10	GP10SW-04464		10.5	6.4		8.38	0.15	270	450
8	11/18/2009	13:50	GP10SW-03468		18	6.56		7.18	0.22	930	260
5	11/18/2009	9:50	GP10SW-031	54	14.6	6.46		7.1		118	520
11	11/19/2009	11:00	GP10SW-03661		13.7	6.44		7.73	0.19	1400	1373

# Monthly Results

# December 2009

Stream Site Number	Date	Time	Sample ID #	Air Temperature	Water Temperature	pH	Turbidity	Dissolved Oxygen	Ammonia	Fecal Strep	Fecal Coliform	
12	12/21/2009	10:55	GP10SW-05914		10	7.18	2.7	8.48	0.19	145	54	
27	12/21/2009	8:35	GP10SW-070	7	7.1	7.26	2.5	10.66	0.41	3000	230	
8	12/21/2009	12:20	GP10SW-05616		11.7	7.38	25	10.43	0.18	327	73	
28	12/21/2009	8:50	GP10SW-071	8	7.6	7.18	6.9	10.25	0.36	54	10	
15	12/21/2009	10:45	GP10SW-06014		8.4	7.23	19	9.27	0.3	240	340	
19	12/21/2009	12:45	GP10SW-06317		9.9	7.12	9	11.06	1.25	10	10	
18	12/21/2009	12:30	GP10SW-06217		10.1	7.45	18	13.9	0.17	36	10	
22	12/21/2009	12:10	GP10SW-06517		13.1	7.1	3.5	9.36	0.43	127	45	
30	12/21/2009	9:25	GP10SW-073	9	7.2	7.69	6.2	11.01	0.18	45	10	
9	12/21/2009	11:15	GP10SW-057A		16	8.4	7.47	4.6	8.25	0.16	109	45
9	12/21/2009	11:15	GP10SW-05716		8.4	7.47	4.6	8.25	0.16	118	45	
29	12/21/2009	9:55	GP10SW-072	12	8.6	7.33	2.5	10.29	0.41	45	18	
17	12/21/2009	10:25	GP10SW-06113		9.4	7.17	20	10.48	0.17	9	9	
20	12/21/2009	9:34	GP10SW-064	10	9.7	7.4	14	9.81	0.25	400	10	
24	12/22/2009	9:30	GP10SW-067	14	10	7.68	5.3	9.28	0.31	320	9	
23	12/22/2009	8:25	GP10SW-066	13	10.4	7.48	6.8	10.18	0.34	9	10	
7	12/22/2009	8:10	GP10SW-055	14	10.6	7.2	13	9.56	0.18	270	164	
6	12/22/2009	9:00	GP10SW-054	14	12.6	7.28	7.4	9.58	0.36	100	54	
5	12/22/2009	9:10	GP10SW-053	14	9.7	7.21	9.3	9.02	0.18	480	2900	
3	12/22/2009	8:40	GP10SW-052A13		9.6	7.54	5.2	10.15	0.28	36	18	
3	12/22/2009	8:40	GP10SW-052	13	9.6	7.54	5.2	10.15	0.28	64	27	
11	12/22/2009	12:00	GP10SW-05817		9.2	7.2	8.3	8.89	0.29	164	45	
26	12/22/2009	10:00	GP10SW-06915		10.9	7.59	6	10.46	0.09	240	82	
25	12/22/2009	9:45	GP10SW-068	14	10	7.48	4.2	10.07	0.18	127	27	

# Monthly Results

# January 2010

<i>Stream Site Number</i>	<i>Date</i>	<i>Time</i>	<i>Sample ID #</i>	<i>Air Temperature</i>	<i>Water Temperature</i>	<i>pH</i>	<i>Turbidity</i>	<i>Dissolved Oxygen</i>	<i>Ammonia</i>	<i>Fecal Strep</i>	<i>Fecal Coliform</i>
8	1/26/2010	12:00	GP10SW-080	13	11.3	7.8	13.1	8.12	11.5	240	27
20	1/26/2010	9:15	GP10SW-088	6	8.8	8.12	9.63	9.17	0.26	1136	10
18	1/26/2010	12:25	GP10SW-086	13	11.6	8.07	14.7	9.61	0.18	45	27
17	1/26/2010	10:00	GP10SW-085	8	8.9	8.21	12.2	9.64	0.05	27	18
15	1/26/2010	10:15	GP10SW-084	8	10.3	6.81	20.6	7.11	0.24	127	191
12	1/26/2010	10:26	GP10SW-083	9	10.3	7.82	8.58	8.05	0.05	164	154
11	1/26/2010	11:40	GP10SW-082	13	9.8	7.8	8.18	6.82	0.21	191	209
9	1/26/2010	10:45	GP10SW-081A	10	9.6	7.74	9.51	10.37	0.18	145	210
27	1/26/2010	8:07	GP10SW-094	2	6.3	6.49	4.45	7.44	0.13	250	136
22	1/26/2010	11:11	GP10SW-089	11	9.4	7.67	5.04	6.99	0.63	45	460
9	1/26/2010	10:45	GP10SW-081B	10	9.6	7.74	9.51	10.37	0.18	164	220
29	1/26/2010	9:35	GP10SW-096	7	8.9	7.84	13.5	7.56	0.07	91	9
19	1/26/2010	12:40	GP10SW-087	13	13.2	8.1	14.9	9.09	0.14	36	9
30	1/26/2010	9:00	GP10SW-097	5	8.8	7.81	7.48	10.32	0.19	82	10
28	1/26/2010	8:31	GP10SW-095	4	8.8	7.09	4.82	7.72	0.2	82	136
7	1/27/2010	9:12	GP10SW-079	12	10.3	7.69	8.94	7.84	0.27	250	145
23	1/27/2010	8:05	GP10SW-090	10	10.2	6.38	14.3	8.74	0.26	9	10
5	1/27/2010	9:56	GP10SW-077	12	9.7	7.66	7.18	9.67	0.24	64	330
3	1/27/2010	8:31	GP10SW-076	11	9.5	7.42	8.15	9.91	0.23	18	54
24	1/27/2010	9:35	GP10SW-091	12	10.6	7.98	8.28	8.77	0.33	54	27
25	1/27/2010	9:55	GP10SW-092	12	10.1	7.73	4.38	9.26	0.11	45	164
26	1/27/2010	10:15	GP10SW-093B	13	6.7	7.84	10.98	8.78	0.08	2300	330
26	1/27/2010	10:15	GP10SW-093A	13	6.7	7.84	10.98	8.78	0.08	3700	390
6	1/27/2010	8:46	GP10SW-078	11	13.6	7.7	8.5	9.16	0.32	590	82

# Monthly Results

# February 2010

Stream Site Number	Date	Time	Sample ID #	Air Temperature	Water Temperature	pH	Turbidity	Dissolved Oxygen	Ammonia	Fecal Strep	Fecal Coliform
12	2/16/2010	11:30	GP10SW-105	8	8.3	7.6	11	10.72	0.02	820	1627
19	2/16/2010	1:15	GP10SW-109	8	8.5	8.03	24.1	12.08	0.11	10	73
18	2/16/2010	12:50	GP10SW-108		7.9	7.93	36.3	11.54	0.01	145	9
20	2/16/2010	9:50	GP10SW-110	6	5.8	8.12	25	11.76	0	470	82
22	2/16/2010	12:35	GP10SW-111	8	9.5	7.46	4.4	10.29	0.39	82	55
17	2/16/2010	10:50	GP10SW-107	7	6.8	8.04	21	11.5	0.04	82	64
15	2/16/2010	11:10	GP10SW-106	8	7.6	7.63	450	10.87	0.03	830	573
9	2/16/2010	12:15	GP10SW-103A	9	7.9	7.87	38.2	12.17	0.16	127	280
9	2/16/2010	12:15	GP10SW-103	9	7.9	7.87	38.2	12.17	0.16	220	191
27	2/16/2010	8:20	GP10SW-116	1	6.7	7.21	3.8	9.61	0.16	2145	580
29	2/16/2010	10:20	GP10SW-118	6	7.6	7.79	21	11.2	0.04	109	54
30	2/16/2010	9:39	GP10SW-119	3	4.6	8.01	95	12	0.02	460	18
28	2/16/2010	9:00	GP10SW-117	3	6	7.74	94	11.52	0.11	1145	480
26	2/17/2010	11:00	GP10SW-115	7	6.6	7.87	7.65	11.8	0.1	60	120
25	2/17/2010	10:50	GP10SW-114	6	7.4	7.73	4.91	10.76	0.16	180	120
5	2/17/2010	10:00	GP10SW-099	4	4.7	7.77	36	11.06	0.11	100	340
23	2/17/2010	8:50	GP10SW-112	2	7.7	7.98	28.5	11.55	0.16	40	40
11	2/17/2010	12:05	GP10SW-104	8	8.4	7.83	31.4	11.32	0.14	560	140
8	2/17/2010	12:20	GP10SW-102	9	10.4	7.8	17.1	11.86	0.02	40	100
6	2/17/2010	9:40	GP10SW-100	4	6.5	7.83	34.8	11.35	0.09	160	160
3	2/17/2010	9:20	GP10SW-098A	2	5.2	7.79	22.9	11.19	0.12	420	20
3	2/17/2010	9:20	GP10SW-098	2	5.2	7.79	22.9	11.19	0.12	300	80
24	2/17/2010	10:25	GP10SW-113	5	6	7.64	21.7	11.2	0.19	100	40
7	2/17/2010	8:30	GP10SW-101	2	8.8	7.87	4.2	9.55	0.22	3180	140

# Monthly Results

# March 2010

<i>Stream Site Number</i>	<i>Date</i>	<i>Time</i>	<i>Sample ID #</i>	<i>Air Temperature</i>	<i>Water Temperature</i>	<i>pH</i>	<i>Turbidity</i>	<i>Dissolved Oxygen</i>	<i>Ammonia</i>	<i>Fecal Strep</i>	<i>Fecal Coliform</i>
18	3/22/2010	12:30	GP10SW-146	23	12.1	8.17	30.7	7.58	0.12	136	164
15	3/23/2010	10:20	GP10SW-144	17	9.8	7.61	46	7.05	0.18	1054	1373
27	3/23/2010	8:15	GP10SW-154	9	10	7.14	3.95	8.57	0.19	530	520
28	3/23/2010	8:30	GP10SW-155	9	12.4	7.16	7.56	8.57	0.11	650	873
30	3/23/2010	9:05	GP10SW-157A	10	11	7.98	35.6	8.26	0.05	330	270
30	3/23/2010	9:05	GP10SW-157	10	11	7.98	35.6	8.26	0.05	300	240
20	3/23/2010	9:20	GP10SW-148	11	11	8.16	23	7.72	0.12	380	310
17	3/23/2010	10:00	GP10SW-145	14	11.9	8.14	19.2	7.88	0.21	18	45
12	3/23/2010	10:45	GP10SW-143	17	12.3	7.6	24.2	6.52	0.24	780	964
9	3/23/2010	11:10	GP10SW-141	18	10.9	7.72	109.3	9.86	0.2	540	900
22	3/23/2010	12:20	GP10SW-149	22	12.5	7.63	6.87	7.35	0.09	410	173
19	3/23/2010	12:45	GP10SW-147	23	11.8	7.92	140	7.47	1.04	350	280
29	3/23/2010	9:35	G010SW-156	14	11.2	7.81	7.19	9.46	0.1	191	45
3	3/24/2010	8:55	GP10SW-136	17	14	7.86	31.2	6.36	0.05	164	260
5	3/24/2010	9:25	GP10SW-137	17	14.3	7.89	21.1	6.03	0.18	145	260
6	3/24/2010	9:15	GP10SW-138	17	14.5	7.78	30.5	6.56	0.11	260	400
8	3/24/2010	12:05	GP10SW-140A	17	15.4	7.85	10.76	7.23	0.04	1500	91
8	3/24/2010	12:05	GP10SW-140	17	15.4	7.85	10.76	7.23	0.04	2500	91
23	3/24/2010	8:40	GP10SW-150	16	14.3	7.82	26.5	8.29	0.22	64	9
24	3/24/2010	9:50	GP10SW-151	17	14	7.67	26.2	5.95	0.13	182	100
25	3/24/2010	10:25	GP10SW-152	17	14.8	7.77	7.13	5.97	0.13	480	470
26	3/24/2010	10:25	GP10SW-153	17	14.8	7.89	7.56	7.52	0.72	6400	
11	3/24/2010	11:50	GP10SW-142	18	14.5	7.79	14.1	6.03	0.16	550	390
7	3/24/2010	8:15	GP10SW-139	17	17	7.16	86.2	4.1	0.07	200	109

# Monthly Results

## April 2010

Stream Site Number	Date	Time	Sample ID #	Air Temperature	Water Temperature	pH	Turbidity	Dissolved Oxygen	Ammonia	Fecal Strep	Fecal Coliform
30	4/26/2010	9:05	GP10SW-179	14	16.5	6.55	16.1	5.01	0.27	260	154
8	4/27/2010	12:41	GP10SW-162	21	20.9	7.79	14.4	7.51	0.15	1591	570
20	4/27/2010	9:20	GP10SW-170	14	15.8	7.82	10.81	5.22	0.25	2400	54
18	4/27/2010	12:56	GP10SW-168	21	20.8	7.87	25.5	6.23	0.15	27	27
15	4/27/2010	10:32	GP10SW-166	17	17.9	7.14	38.7	3.66	0.42	280	145
12	4/27/2010	10:44	GP10SW-165	18	16.7	7.32	6.8	4.57	0.42	3500	3000
11	4/27/2010	12:23	GP10SW-164	21	18.2	7.58	46.3	4.54	0.27	350	580
22	4/27/2010	11:55	GP10SW-171	22	19.7	7.39	14.3	4.62	0.46	830	1936
9	4/27/2010	11:04	GP10SW-163A	18	17.5	7.51	12.2	5.51	0.37	210	230
19	4/27/2010	1:08	GP10SW-167	21	20	8.05	17.5	6.6	1.6	18	45
9	4/27/2010	11:04	GP10SW-163	18	17.5	7.51	12.2	5.51	0.37	290	164
28	4/27/2010	8:33	GP10SW-177	13	17	7.46	3.61	5.65	0.29	310	109
29	4/27/2010	9:38	GP10SW-178	15	16.5	7.46	9.19	6.22	0.06	310	9
17	4/27/2010	10:20	GP10SW-167	17	17	6.89	32.9	6.05	0.12	73	18
27	4/27/2010	8:20	GP10SW-176	12	16.5	7.12	1.32	5.67	0.23	3400	991
24	4/28/2010	10:34	GP10SW-173	21	18.5	7.38	12.4	4.64	0.32	82	460
26	4/28/2010	11:30	GP10SW-175	23	18	7.29	6.89	6.66	0.26	1427	460
25	4/28/2010	11:15	GP10SW-174	22	20.7	7.57	11	4.85	0.36	182	700
5	4/28/2010	10:17	GP10SW-159	20	18.5	7.61	33.4	5.29	0.22	182	673
6	4/28/2010	10:06	GP10SW-160	19	20.1	7.76	63.1	5.64	0.05	220	1345
3	4/28/2010	0:53	GP10SW-158	18	17.5	7.72	17.3	5.25	0.19	270	9
23	4/28/2010	9:35	GP10SW-172	18	18.2	7.7	14.4	5.71	0.31	45	18
7	4/28/2010	8:56	GP10SW-161	17	15.9	7.27	18.3	5.79	0.23	280	600
3	4/28/2010	9:53	GP10SW-158A	18	17.5	7.72	17.3	5.25	0.19	300	54

# Monthly Results

# May 2010

Stream Site Number	Date	Time	Sample ID #	Air Temperature	Water Temperature	pH	Turbidity	Dissolved Oxygen	Ammonia	Fecal Strep	Fecal Coliform
5	5/25/2010	9:00	GP10SW-184	26	24.1	7.72	18	5.61	0.17	182	380
25	5/25/2010	1:10	GP10SW-200	29	26.3	7.65	8.8	4.9	0.08	173	600
24	5/25/2010	12:45	GP10SW-199	28	26	7.73	15	6.96	0.05	82	320
23	5/25/2010	10:55	GP10SW-198	27	25.3	7.78	23	5.62	0.22	260	210
7	5/25/2010	8:30	GP10SW-186	24	20.4	6.63	0.05	4.79	0.19	1136	3100
3	5/25/2010	12:00	GP10SW-183	EB						10	10
6	5/25/2010	9:25	GP10SW-185	26	25	7.78	65	5.3	0.19	191	290
3	5/25/2010	12:00	GP10SW-183	29	26.3	7.82	23	5.49	0.1	145	210
3	5/25/2010	12:00	GP10SW-183A	29	26.3	7.82	23	5.49	0.1	154	260
12	5/26/2010	12:00	GP10SW-191	32	24.9	7.33	16	8.03	0.13	1045	836
9	5/26/2010	12:25	GP10SW-189	32	25.9	7.43	10	5.38	0.02	450	200
30	5/26/2010	9:30	GP10SW-205	26	24.2	7.48	38	3.33	0.12	840	164
17	5/26/2010	10:35	GP10SW-193	29	23	7.54	45	5.6	0.08	82	100
20	5/26/2010	9:55	GP10SW-196	27	26.8	7.67	26	3.95	0.12	6700	1818
22	5/26/2010	1:15	GP10SW-197	32	25.4	7.45	10	3.74	1.2	3600	
22	5/26/2010	1:15	GP10SW-197A	32	25.4	7.45	10	3.74	1.2	4100	
22	5/26/2010	12:55	GP10SW-197	EB						10	10
27	5/26/2010	8:10	GP10SW-202	24	23.1	6.8	4.5	5.27	0.12	300	3000
28	5/26/2010	8:40	GP10SW-203	26	23.1	7.4	30	4.59	0.17	620	118
15	5/26/2010	10:55	GP10SW-192	29	26.3	7.5	29	6.37	0.26	36	145
19	5/27/2010	10:35	GP10SW-195	30	26.2	7.83	45	5.92	0.16	54	240
26	5/27/2010	7:55	GP10SW-201	26	22.7	6.72	7.2	5.98	0.16	270	145
18	5/27/2010	10:15	GP10SW-194	29	27	7.62	90	4.42	0.1	91	173
11	5/27/2010	9:00	GP10SW-190	27	24.8	7.48	20	3.95	0.22		

## Monthly Results

Stream Site Number	Date	Time	Sample ID #	Air Temperature	Water Temperature	pH	Turbidity	Dissolved Oxygen	Ammonia	Fecal Strep	Fecal Coliform
8	5/27/2010	9:55	GP10SW-187	27	25.5	7.33	16	4.15	0.28	7200	

## May 2010

## Monthly Results

5	6/22/2010	10:55	GP10SW-194	33	28.3	7.7	18	4.59	0.05	36	230
11	6/22/2010	12:30	GP10SW-199	37	29.3	7.78	38	3.27	0.13	560	410
25	6/22/2010	11:30	GP10SW-208	34	28.6	7.63	8	6.26	0.08	18	36
8	6/22/2010	12:45	GP10SW-197	36	30	8.12	7.5	6.4	0.22	800	1227
24	6/22/2010	11:15	GP10SW-207	33	28.8	7.69	7.2	5.61	0.12	45	36
6	6/22/2010	10:40	GP10SW-195	33	29.3	7.78	39	5.12	0.12	500	54
3	6/22/2010	10:25	GP10SW-193	32	29.6	7.56	22	5.44	0.09	410	82
3	6/22/2010	10:25	GP10SW-193A	32	29.6	7.56	22	5.44	0.09	480	45
7	6/22/2010	9:50	GP10SW-196	32	26.8	6.51	45	3.49	0.93	1527	4100
23	6/22/2010	10:05	GP10SW-206	29.3	29.3	7.4	13	4.13	0.05	145	45
20	6/23/2010	8:35	GP10SW-213	27	24.1	7.95	12	5.77	0.02	1020	9
19	6/23/2010	12:00	GP10SW-204	36	30.5	7.75	45	6.33	0.03	27	9
9	6/23/2010	10:00	GP10SW-198	32	27.9	7.56	12	5.1	0.11	80	100
22	6/23/2010	10:30	GP10SW-205	33	26.1	7.59	26	3.21	0.99	5900	
9	6/23/2010	10:00	GP10SW-198A	32	27.9	7.56	12	5.1	0.11	73	100
12	6/23/2010	9:40	GP10SW-200	31	26.5	7.62	130	4.02	0.44	45	109
17	6/23/2010	9:20	GP10SW-202	29	22.5	7.49	27	8.45	0.13	54	18
28	6/23/2010	7:40	GP10SW-211	27	23.7	7.33	20	5.44	0.16	480	560
15	6/23/2010	9:30	GP10SW-201	31	28.2	7.44	16	3.9	0.15	64	36
18	6/23/2010	11:50	GP10SW-203	36	30.9	7.71	70	5.46	0.06	18	9
27	6/23/2010	7:20	GP10SW-210	26	23.7	7.33	9.2	5.14	0.12	182	64

## June 2010

# Monthly Results

## July 2010

Stream Site Number	Date	Time	Sample ID #	Air Temperature	Water Temperature	pH	Turbidity	Dissolved Oxygen	Ammonia	Fecal Strep	Fecal Coliform
25	7/20/2010	9:50	GP10SW-231	29	28.2	7.26	9.1	1.83	0.4	2400	
8	7/20/2010	10:30	GP10SW-218A	31	28.4	7.48	14	3.23	0.36	700	2600
8	7/20/2010	10:30	GP10SW-218	31	28.4	7.48	14	3.23	0.36	730	14100
18	7/20/2010	10:45	GP10SW-224	32	30.2	7.66	60	2.82	0.23	54	18
19	7/20/2010	11:00	GP10SW-225	32	29.1	7.57	27	3.1	0.13	36	91
26	7/20/2010	10:05	GP10SW-232	30	27.2	7.45	5.7	3.63	0.35	400	
3	7/20/2010	8:30	GP10SW-214	28	28.2	7.72	11	4.01	0.05	260	54
11	7/20/2010	9:39	GP10SW-220	29	27.8	7.57	13	3.68	0.1	700	3900
6	7/20/2010	8:50	GP10SW-216	28	29.3	7.72	39	2.42	0.14	860	1700
5	7/20/2010	9:05	GP10SW-215	28	27.8	7.35	10	2.24	0.07	480	420
24	7/20/2010	9:50	GP10DSW-231	29	28.2	7.26	9.1	1.83	0.4		
24	7/20/2010	9:25	GP10SW-230	29	27.7	7.47	11	3.42	0.39	310	2500
7	7/20/2010	7:45	GP10SW-217	27	27	6.98	16	7.26	0.21	2600	6700
20	7/21/2010	7:45	GP10SW-226A	26	26	7.68	5.4	3.44	0.29	660	573
28	7/21/2010	6:55	GP10SW-234	27	27.3	7.23	4.8	3.55	0.05	1000	4500
27	7/21/2010	6:35	GP10SW-233	27	22.7	6.67	9.1	3.98	0.22	680	1450
22	7/21/2010	9:30	GP10SW-228	29	26.1	7.53	10	7.21	0.15	3300	7300
17	7/21/2010	8:10	GP10SW-223	28	27.2	7.53	28	2.65	0.07	82	9
15	7/21/2010	8:25	GP10SW-222	29	26.9	7.32	34	2.44	0.23	640	3000
9	7/21/2010	9:00	GP10SW-219	29	25.7	7.51	7.8	3.78	0.08	200	691
23	7/21/2010	8:10	GP10SW-229	27	28.6	7.57	9.8	3.27	0.1	280	270
12	7/21/2010	8:40	GP10SW-221	29	26.3	7.25	14	2.98	0.07	1027	6500
20	7/21/2010	7:45	GP10SW-226	26	26	7.68	5.4	3.44	0.29	720	645

# Monthly Results

# August 2010

Stream Site Number	Date	Time	Sample ID #	Air Temperature	Water Temperature	pH	Turbidity	Dissolved Oxygen	Ammonia	Fecal Strep	Fecal Coliform
27	8/24/2010	10:45	GP10SW-263 32		27.5	7.39	4.2	3.75	0.11	164	564
22	8/24/2010	9:30	GP10SW-258 32		26.7	7.09	26	3.26	0.65		
28	8/24/2010	12:05	GP10SW-264 34		27.2	7.33	90	4.68	0.42	5600	200
12	8/24/2010	10:10	GP10SW-251 32		26.8	7.28	13	3.27	0.17		
9	8/24/2010	12:45	GP10SW-250 29		29.1	7.48	36	4.12	0.17	136	4600
8	8/25/2010	10:35	GP10SW-248 23		26.7	7.49	130	3.83	0.35		
11	8/25/2010	9:20	GP10SW-249 23		26	7.86	95	4.65	0.98		
23	8/25/2010	8:25	GP10SW-259 23		24.9	8	280	4.05	0.66		
15	8/25/2010	9:05	GP10SW-252 23		27.3	7.58	40	2.65	0.32		
17	8/25/2010	8:45	GP10SW-253 23		27.3	7.71	35	3.09	0.25		
19	8/25/2010	1:20	GP10SW-256 23		24.6	7.83	110	5.18	0.11		
20	8/25/2010	8:05	GP10SW-257A23		26.3	7.75	8.2	3.82	0.09		
24	8/25/2010	12:25	GP10SW-260 22		28	7.45	60	3.92	0.38		
25	8/25/2010	11:55	GP10SW-261 23		25.6	8.05	150	3.66	0.79		
20	8/25/2010	8:05	GP10SW-257 23		26.3	7.75	8.2	3.82	0.09		
18	8/25/2010	1:00	GP10SW-254 22		25.7	7.93	370	5.07	0		
6	8/26/2010	9:20	GP10SW-246 25		25.6	7.79	95	3.66	0.55		
5	8/26/2010	9:30	GP10SW-245 26		25.3	8.01	38	4.14	0.23		
3	8/26/2010	8:55	GP10SW-244 24		25.6	8.01	85	4.74	0.14		
3	8/26/2010	8:55	GP10SW-244A24		25.6	8.01	85	7.74	0.14		

## **APPENDIX D: TCEQ Correspondence #2**

*E-mail correspondence with Gordon Cooper of the TCEQ regarding dry weather sampling criteria*

**From:** Gordon Cooper [GCooper@tceq.state.tx.us]  
**Sent:** Wednesday, May 26, 2010 9:53 AM  
**To:** Echo Rexroad  
**Cc:** Zyman-Ponebshek, Jaya  
**Subject:** Re: Dry Weather Sampling

Ms. Rexroad,

Thank you for contacting me concerning dry weather screening for the city of Grand Prairie's Phase II MS4 permit and SWMP requirements.

The way I see it is if the City wants to apply the three conditions that you indicated when conducting their dry weather screening program, that is fine as long as they still accomplish the goals that they set forth for dry weather screening in their SWMP. The three conditions you gave are the criteria that you will be using to more effectively implement the dry weather screen for this permit term. The City may want to add these (3) criteria to the BMP for dry weather screening in their SWMP during the next permit term to show that they've strengthened their SWMP.

Thank you very much,

Gordon Cooper  
Environmental Permit Specialist  
TCEQ Water Quality Division  
Storm Water &  
Pretreatment Team (MC 148)  
P.O Box 13087  
Austin, TX 78711-3087  
Phone: 512-239-4671  
Fax: 512-239-4430

>>> Echo Rexroad <erexroad@GPTX.org> 5/26/2010 8:40 AM >>>

Good morning Mr. Cooper,

As part of our Year 3 activities for the City's Phase II MS4 permit, we are developing a project plan for our IDDE program. This includes dry weather screening of the City's outfalls.

We did not define the dry weather screening in our SWMP, but in BMP 3.15 we said we would "conduct dry weather screening of 20% of the City's outfalls per year." In Years 1 and 2 we have visually inspected at least 20% of our outfalls. This 20% was based on every single outfall in Grand Prairie. Now that we are at the point of developing a project plan, we feel that we should narrow the inspected outfalls down to those that 1) are 36" or larger, 2) are not a "pass through" outfall (e.g. an outfall that connects one side of an underpass to the other side), and 3) drain directly into a waterbody. This plan was developed after discussions with the City of Forth Worth, who are using this definition of an outfall for dry weather screening as well.

If possible, can you please let me know if this will meet the requirements of our Phase II MS4 permit?

Thank you for your time.

Respectfully,

*Echo Rexroad*  
Senior Environmental Specialist  
Environmental Quality Division  
201 NW 2nd St, Ste 100  
Grand Prairie TX 75050  
Phone: 972.237.8082  
Fax: 972.237.8228

## **APPENDIX E: Outfall Sampling Locations**

# Inspected Outfalls: Year 3

n = 171

