

City of Bryan

Storm Water Management Program  
Year Four Annual Report



**CITY OF BRYAN**  
*The Good Life, Texas Style.™*

Prepared in accordance with TPDES General Permit TXR040000

November 10, 2011

October 31, 2011

**Certified Mail 7160 3901 9845 6702 0354**

Ms. Jaya Zyman-Ponebshek, Team Leader  
Texas Commission on Environmental Quality  
Stormwater and Pretreatment Team Leader (MC-148)  
P.O. Box 13087  
Austin, TX 78711-3087



Re: Phase II MS4 Annual Report Transmittal for the City of Bryan  
TDPES Permit Number TXR040336

Dear Ms. Zyman-Ponebshek:

This letter serves to transmit the Permit Year #4 Annual Report for the Texas Pollution Discharge Elimination System (TPDES) Small Municipal Separate Storm Sewer System (MS4) General Permit, Authorization Number TXR040336 for the City of Bryan.

As required by the General Permit, a copy of this submittal has been provided to the TCEQ Region 9 Office.

Please contact me directly at (979) 209-5932 or [mjurica@bryantx.gov](mailto:mjurica@bryantx.gov) if you have questions or desire further detail.

Respectfully,

A handwritten signature in black ink, appearing to read 'M. Jurica', is written over a light blue horizontal line.

Mark Jurica  
Treatment & Compliance Manager

October 31, 2011

**Certified Mail 7160 3901 9845 6702 0361**

Texas Commission on Environmental Quality  
6801 Sanger Ave., Ste. 2500  
Waco TX 76710-7826



**CITY OF BRYAN**  
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Re: Phase II MS4 Annual Report Transmittal for the City of Bryan  
TDPES Permit Number TXR040336

Dear Sir or Madam:

This letter serves to transmit the Permit Year #4 Annual Report for the Texas Pollution Discharge Elimination System (TPDES) Small Municipal Separate Storm Sewer System (MS4) General Permit, Authorization Number TXR040336 for the City of Bryan.

Please contact me directly at (979) 209-5932 or [mjurica@bryantx.gov](mailto:mjurica@bryantx.gov) if you have questions or desire further detail.

Respectfully,

Mark Jurica  
Treatment & Compliance Manager

## Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number TXR040000

### A. General Information

1. Permit Number TXR040336 Annual Report Year: 4

Name of MS4 / Permittee: City of Bryan

Contact Name: Mark Jurica Telephone Number: (979) 209-5932

Mailing Address: P.O. Box 1000, Bryan, Texas 77805

E-mail Address: mjurica@bryantx.gov

2. Is the named permittee relying on another entity/ies to satisfy some of its permit obligations?  Yes  No

If "Yes," provide the name(s) of other entity/ies and an explanation of their responsibilities (add more spaces or pages if needed):

Name and Explanation: \_\_\_\_\_

\_\_\_\_\_

Name and Explanation: \_\_\_\_\_

\_\_\_\_\_

Name and Explanation: \_\_\_\_\_

\_\_\_\_\_

Name and Explanation: \_\_\_\_\_  
\_\_\_\_\_

Name and Explanation: \_\_\_\_\_  
\_\_\_\_\_

3. Is the named permittee sharing a SWMP with other entities? \_\_\_\_\_ Yes  No

a. If the answer to Number 3 is "Yes," list all associated permit numbers and permittee names (add additional spaces or pages if needed):

Permit Number: \_\_\_\_\_ Permittee: \_\_\_\_\_

b. If the answer to Number 3 is "Yes," is this a system-wide annual report including information for all permittees?

\_\_\_\_\_ Yes \_\_\_\_\_ No

Explanation, if any \_\_\_\_\_  
\_\_\_\_\_

4. Has a copy of this annual report been submitted to the TCEQ Regional Office?  Yes \_\_\_\_\_ No

## B. SWMP Modifications and Additional Information.

Include a brief explanation if you check "Yes" to any of the following statements.

1. a. Changes have been made or are proposed to the SWMP since the NOI or the last annual report, including changes in response to TCEQ's review. \_\_\_\_\_ Yes  No

b. If the answer to Number 1.a. is "Yes," has the TCEQ already approved the original SWMP? \_\_\_\_\_ Yes \_\_\_\_\_ No

c. If the answer to Number 1.a. is "Yes," indicate whether an NOC (or letter) has been submitted to document the changes to the approved SWMP as required by the general permit. (Note that if an NOC is required, it must be submitted to the address shown on the NOC. Do not attach the original NOC form to this report.)  Yes  No

2. The MS4 has annexed lands since obtaining permit coverage. If "Yes," please explain.  Yes \_\_\_\_\_ No

Ordinance No. 1817 – Approved July 28, 2009 – Annexed 179.59 Acres; Ordinance No. 1756 – Approved March 25, 2008 - Annexed 121.8 Acres. No changes to SWMP or BMPs will be made as a result of the annexations listed above. Copies of both ordinances and associated maps are attached with this report.

3. A receiving water body is newly listed as impaired or a TMDL has been established. If yes, please explain.

Yes \_\_\_\_\_ No

A TMDL for the Carters Creek Watershed (Carters Creek, Burton Creek, and Country Club Branch) is nearing completion. The

TDML will address *E. coli* loading. A draft TMDL Implantation Plan (I-Plan) has been drafted and will be submitted to TCEQ for review and comment in August 2011. Final approval of the I-Plan by the TSSWCB is anticipated 6 months to 18 months after TCEQ's final acceptance of the I-Plan.

4. The MS4 has conducted analytical monitoring of storm water quality. \_\_\_\_\_ Yes  No

Explain below or attach a summary to submit along with any monitoring data used to evaluate the success of the SWMP at reducing pollutants to the maximum extent practicable. Be sure to include a discussion of results.

The City of Bryan's SWMP does not require analytical monitoring of water quality. However, staff has performed creek monitoring for *E. coli* to (1) coincide with creation of the TDML draft document, and (2) identification and trending for SSO events and dry weather field screens. *E. coli* sampling of wastewater effluent is performed in accordance with each wastewater treatment plant's (WWTP) discharge permit. The City's Industrial Pretreatment Program establishes local limits for various pollutants discharged to the WWTPs. These limits are based on the maximum allowable headworks loading (MAHL) of pollutants to prevent pollutant bypass or plant overload. The WWTP's influent and effluent are screened annually for 126 priority pollutants; quarterly screening is performed for 26 metals and nutrients. Treated wastewater is released to receiving streams (Burton Creek, Still Creek, and Turkey Creek); approximately 500,000 gallons/ per day of treated wastewater is supplied to the Traditions Golf Course for Type II Reclaim (Authorization # R10426-003).

Narrative Provisions

1. Provide information on the status of complying with permit conditions:

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.	X		
Permittee is currently in compliance with recordkeeping and reporting requirements.	X		
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.)	X		

2. Provide a general assessment of the appropriateness of the selected BMPs:

Has the permittee determined that any of the selected BMPs are not appropriate for reducing the discharge of pollutants in storm water? \_\_\_\_\_ Yes  X  No

Provide explanation: The City has reviewed the BMPs listed in the SWMP and has determined that they are all still appropriate to this date. No specific changes are anticipated at this time.

Describe progress towards reducing the discharge of pollutants to the maximum extent practicable (MEP). Summarize any information used (such as monitoring data) to evaluate reductions in the discharge of pollutants. Use a narrative description or table as appropriate:

MCM	BMP	Parameter	Quantity	Units	Does BMP Demonstrate a Direct Reduction in Pollutants? (Yes / No / Explain)

Or, provide explanation below:

None to date.

3. Provide a general evaluation of the program's progress, including any obstacles or challenges encountered in implementing BMPs, meeting the program's schedule, etc.:

Limited funding and resources serve as the primary obstacles for implementation and expansion of BMPs and the SWMP. Employee turnover within the City serves as a second challenge. Corporate knowledge of the SWMP is lost as a result of employee turnover.

4. Provide the number of construction activities (other than those where the permittee was the operator) that occurred within the regulated area as indicated by notices of intent or site notices:

25

5. Does the permittee utilize the optional seventh MCM related to construction? \_\_\_\_\_ Yes  No

If "Yes," then provide the following information for this permit year:

a. The number of municipal construction activities authorized under this general permit: \_\_\_\_\_

b. The total number of acres disturbed for municipal construction projects: \_\_\_\_\_

*Though the seventh MCM is optional, implementation must be requested on the NOI or on a NOC and approved by the TCEQ.*

6. Requirements for Specific Minimum Controls Measures (MCMs):

a. For MCM 1 - Public Education and Outreach, provide documentation of activities conducted and materials used to fulfill the requirements of this MCM.

A detailed explanation of outreach and performed activities for this MCM are provided in Section D: Storm Water Management Plan Status.

b. Also for MCM 1, provide documentation of the amount of resources used to address each group (e.g., visitors, businesses, etc.).

The City expensed \$5,440.30 in promotional giveaways for the reporting period. Approximately 23,000 dual language residential BMP flyers were distributed as a utility bill insert. Brochures on water conservation, inflow and infiltration, wastewater treatment, fats, oil and grease, litter control and solid waste services, and prescription drug disposal are available and dispersed to the general public. A minimum order of 1,000 of each flyer is printed annually. A detailed explanation of outreach and performed activities for this MCM are provided in Section D: Storm Water Management Plan Status.

c. For MCM 3 – Illicit Discharge Detection and Elimination (IDDE), indicate whether you have developed a list of allowable non-storm water discharges, other than those already listed in the general permit. If you have developed a list and have made any changes to the local controls, conditions and/or programs being established for discharges, include this information below. If you do not have any changes for this permit year, indicate that this item is not applicable.

Not applicable.

7. Describe any proposed changes to the SWMP in the coming reporting year.

Staff will continue to review elements of the SWMP and weight the water quality return for adopted BMPs. Political will, financial limitations, labor force, and water quality impact will be considered for each BMPs. At this time no change is expected.

8. Describe any activities planned for the next permit year, not already described.

(1) City crews will systematically investigate drainage basins and continue dry weather inspections to determine illicit discharges to the storm sewer system. (2) Storm sewer stenciling for sewer inlets will begin. (3) Print and distribute educational materials concerning water quality and BMPs to diverse groups (homeowner associations, business community, etc.). (4) Perform city-wide education regarding the SWMP for municipal employees.

### C. Storm Water Management Program Status

Provide the status of every BMP and measurable goal listed in the SWMP, as described in the instructions. Each MCM, but not necessarily each BMP, must include the measurable goals described in the SWMP. For a shared SWMP, include the name of the responsible MS4 operator(s) in the “BMP” column. *(Though an MS4 is not required to implement BMPs until the initial SWMP is approved by the TCEQ, the MS4’s initial annual report should include a description of what has been done to date, even if the SWMP has not yet been approved. The MS4 will receive credit for all BMPs implemented prior to and during the first permit year if they are described in the initial annual report.)*

Table 1 - BMP Status					
MCM(s)	BMP	Milestones of Permit Year	New or Revised	Start Date	Status/Completion Date
1: Public Education	Distribute Outreach Materials to Targeted Groups (i.e. Residents, Industry, and Businesses)	<p>City staff met with several civic groups and neighborhood organizations to discuss stormwater quality and water quality BMPs.</p> <p>A dual language residential flyer highlighting homeowner BMPs was included as a utility bill insert for all residual utility accounts with Bryan Texas Utilities (~23,000 flyers distributed).</p> <p>A stormwater pamphlet covering homeowner BMP topics such as fertilizer application, vehicle washing, pesticide/herbicide application, vehicle maintenance, and dry sweeping has been drafted and is expected to be complete during permit year 5. The final document will be printed in dual language and made available on the City’s website and for hard copy handout.</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
1: Public Education	Coordinate Annual Education Events	Partnered with City of College Station to co-host the Brazos Valley Earth Day (4/2011), Master Composter Course (8/2010), Household Hazardous Waste Event		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		(10/ 2010 & 4/ 2011), Texas Recycles Day (11/2011), Keep Brazos Beautiful Trash Off (4/2011), Keep Brazos Beautiful Great American Campus Cleanups (5/2011)  Continued partnership with the City of College Station, Brazos County, TxDOT, and Texas A&M University for continuation of the Brazos Basin Stormwater Education Committee (BBSEC).			
1: Public Education	Develop Public Service Announcements (PSAs) Regarding Stormwater Protection	<b>PSAs Completed</b> 1) Only Rain Down the Drain (7/2009) 2) Only Rain Down the Drain 2 (7/2009) 3) Birds and Bees (11/2009) 4) Never Dump Tires (10/2009) 5) Oil Dumping (10/2009) 6) Prescription Medicine Disposal (2/2010) 7) Water Leaks (5/2010) 8) Don't Litter (6/2010)		Year 1	Completed Permit Year 2 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
1: Public Education	Conduct Public Service Announcements (PSAs)	PSAs are aired on the City's public information channel (Channel 16), KBTX networks (local CBS affiliate) as a random rotator, and can be accessed via the City's website, YouTube and Facebook.  City staff appeared on the KBTX Morning Show to discuss proper disposal of unused prescription medicines (8/2010).		Year 2	Completed Permit Year 2 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
1: Public Education	Coordinate Adult Education Events, (Homeowner Associations, Civic, and Professional Groups)	<b>Presentations/Meeting Attendance</b> ▪ Transportation Community Meeting (8/2010) ▪ The Normal Borloug Institue (WWTP Plant Tour) (8/2010) ▪ Neighborhood Night Out Block Parties (9/2010) ▪ Crystal Brook/Silkwood HOA (9/2010)			Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		<ul style="list-style-type: none"> <li>▪ Habitat for Humanity New Homeowner Meeting (10/2010)</li> <li>▪ Oaks Motel Meeting (2/2011)</li> <li>▪ Prairie Street/Long Street Outreach Effort (3/2011)</li> <li>▪ City of Bryan Parks and Recreation Family Campout (4/2011)</li> <li>▪ Bryan Leadership Academy (4/2011)</li> <li>▪ Leadership Brazos WWTP Tour (5/2011)</li> <li>▪ Dr. Carl Burns (Texas A&amp;M University) WWTP Tour (5/2011)</li> <li>▪ City of Bryan Industrial Pretreatment Banquet (4/2011)</li> <li>▪ Brazos Valley Children's Museum Community Hero Program (7/2011)</li> <li>▪ Dr. Calvin Woods (Texas A&amp;M University) WWTP Tour (7/2011)</li> </ul>			
1: Public Education	Develop Education Partnerships with Local Schools	<p><b>Presentations/Meetings Attended</b></p> <ul style="list-style-type: none"> <li>▪ Bryan Independent School District (BISD) Education Event (8/2010)</li> <li>▪ St. Joseph School – Community Hero Program (7/2011)</li> </ul> <p><b>Bryan Environmental Education (BEE)</b>  BEE Bins are provided free of charge to local schools and educators to provide students with classroom exercises relating to conservation, environmental awareness, and pollution prevention. A video library on various environmental topics is also available to educators. Covered BEE Bin topics include:</p> <ul style="list-style-type: none"> <li>▪ Water Production</li> <li>▪ Water Conservation</li> <li>▪ Stormwater Runoff</li> <li>▪ Recycling</li> </ul>			Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		<ul style="list-style-type: none"> <li>▪ Litter Awareness</li> <li>▪ Composting</li> </ul> <p>9 BEE Bins were checked out during the permit year by teachers at Fannin Elementary School - approximately 130 students participated in BEE Bin activities.</p>			
2: Public Involvement & Participation	Develop Public Service Announcements (PSAs) Promoting Public Participation in the Stormwater Program	<p>PSAs are aired on the City's public information channel, KBTX networks as a random rotator, and can be accessed via the City's website, YouTube and Facebook.</p> <p>City staff appeared on the KBTX Morning Show to discuss proper disposal of unused medicines (8/2010).</p>		Year 2	Completed Permit Year 2 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
2: Public Involvement & Participation	Establish Stormwater Hotline	<p>The Public Works Call Center received calls from the general public and distributes work requests to the responsible department.</p> <p>The Call Center's phone number and email are solicited to the general public for all concerns. An on-line service request application dubbed "Help Bryan" is available to web traffic.</p> <p>Work orders issued for stormwater and water related issues:</p> <ul style="list-style-type: none"> <li>▪ Sewer Overflows – 92</li> <li>▪ Illegal Dumping – 215</li> <li>▪ Nuisance - 202</li> <li>▪ Prohibited Discharge - 45</li> </ul>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
2: Public Involvement & Participation	Perform City Clean Up Event	The City of Bryan is an executive member of KBB and supports its mission and efforts through agency participation and financial funding.		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		<p>On April 30, 2011, Keep Brazos Beautiful (KBB) held its annual Trash Off Event. Approximately 3 tons of debris was collected during the event. A total of 350 volunteers participated.</p> <p>1 illegal dump site in Bryan was cleaned up by KBB (Mumford/Saunders Rd). 14.5 tons of debris and 10 tires were removed. 110 volunteers participated.</p> <p>The Solid Waste Department employs 3 Solid Waste Assessment Workers. These employees are charged with collection of litter and loose debris from the public right-of-way. This level of service is very untypical for most municipalities. This service is provided aside from weekly garbage and heavy trash collection services.</p>			
2: Public Involvement & Participation	Implement Storm Drain Stenciling Program	<p>This MCM is defined by: (1) Volunteer Stenciling and (2) New Development/Reconstruction.</p> <p><b>Volunteer</b> No volunteer activity to date has been performed for this MCM.</p> <p><b>New Development/Reconstruction</b> The City's design standards require storm sewer inlet and manhole lids installed after 2003 to display a general "dump no waste" message. The following number of inlets within the City' system is provided below:</p> <p>Pre 2003 Inlets: 1,213 Post 2003 Inlet: 3,245</p>		Year 1	<p>In Progress – launch of a storm drain stenciling program is pending. Staff is evaluating the best approach to satisfy this measure. Originally, painting of the storm drain inlets was determined to be the best course of action. Staff is experimenting with installing prefabricated metal inlet markers listing "drains to creek" in place of painting the inlets. The markers may be installed by (1) adhesive, (2) rivet, or (3) concrete anchors. An aggressive campaign to "stencil" pre 2003 inlets will begin once the best installation method for the markers is determined.</p> <p>Markers are manufactured by Almeteck Industries Inc. A copy of the sales receipt for the recent order is provided with this report. Installation hardware (anchors and rivets) are not included on this report because these items are maintained in-house. A second order to "stencil" the remaining pre 2003 inlets</p>

					will be placed once the best method of installation is decided.
3: Illicit Discharge & Detection Elimination	Develop Storm Sewer Map	Water Services, Engineering Services, and the Information Technology Departments are continually working to update and amend the storm sewer base map.		Year 2	Completed Permit Year 1 – the City maintains a base map of its storm sewer in GIS. The base map was originally created in the late 1990s. As built plans are added to the base map as project data becomes available. The base map satisfies the minimum requirements of the SWMP but further attention is needed to validate data points and increase user-friendliness. Water Services Administration hired a GIS Technician in August 2011. A focus area for this employee will be updating and validating the storm sewer base map.
3: Illicit Discharge & Detection Elimination	Develop Stormwater Ordinance to Support SWMP	<p>City of Bryan Ordinance No. 1887 governing stormwater management was approved on November 5, 2010.</p> <p>City of Bryan Ordinance No. 1923 governing industrial pretreatment standards was approved on July 18, 2011.</p> <p>City of Bryan Ordinance No. 1920 governing sewer use was approved on June 14, 2011.</p>		Year 1	Completed Permit Years 3 & 4.

		Copies of these ordinances are provided with this report.			
3: Illicit Discharge & Detection Elimination	Implement Facility Inspection and Discharge Detection Training for Public Employees	<p>Facility inspections for illicit discharges are a shared responsibility between field staff within Public Works and Development Services. Inspector knowledge for facility inspection and discharge detection is a combination of (1) on the job training, (2) professional training opportunities (TEEX, TWUA, etc.), (3) internal training opportunities, and (4) recognized industry practices.</p> <p>The City employs a committed Plumbing Inspector who oversees plumbing installations and repairs to ensure all work is made in compliance with the City's plumbing code.</p> <p>Smoke testing, dye testing, and closed circuit television (CCTV) are tools available for identification of illicit connections to the sanitary sewer and storm sewer systems.</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
3: Illicit Discharge & Detection Elimination	Recycling Program for Household Hazardous Waste (HHW)	<p>HHW collection events are held twice per year (10/2010 &amp; 4/2011) for citizens living within the 7 county region: Brazos, Burleson, Robertson, Leon, Grimes, Washington, and Madison.</p> <p>This year's HHW event was expanded to include acceptance of prescription drugs.</p>		Year 1	Completed Permit Year 1– this MCM is a continuous effort that will be performed for the remainder of the permit term.
3: Illicit Discharge & Detection Elimination	Program to Detect and Eliminate Sanitary Sewer Overflows	<p>City of Bryan field crews smoke tested 212,905 linear feet (~40.3 miles) of sanitary sewer pipe for system defects and illicit connections to the sanitary sewer system.</p> <p>The City of Bryan partnered with Service</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		<p>Line Warranties of America (4/2011) to establish a private sewer line warranty program to assist homeowners with repair and maintenance of private sewer lines.</p> <p>The City of Bryan's Sewer Line Assessment Program was established with revision of the Sewer Use Ordinance (7/2011). The Assessment Program will provide loans to homeowners for replacement of defective sewer lines. Smoke testing data will direct homeowner contact by staff for needed repairs.</p> <p>The City of Bryan is enrolled in TCEQ's Sanitary Sewer Overflow Initiative (SSOI) and has enacted a CMOM (Capacity, Maintenance, Operation, and Management) Plan for its sanitary sewer system (7/2009).</p>			
3: Illicit Discharge & Detection Elimination	Storm Sewer System Inspection for Dry Weather Flows	130 culvert and storm sewer-related work orders were completed by Streets & Drainage personnel this review period. Inspections for dry weather flows were included conducted as part of this action.		Year 1	Work orders for culverts and storm sewers started in Permit Year 1; however, more detailed inspections of dry weather flows have begun and will continue for the remainder of the permit term.
4: Construction Site Runoff Control	Establish Legal Authority	City of Bryan Ordinance No. 1887 governing stormwater management was approved on November 5, 2010.		Year 1	Completed Permit Year 3.
4: Construction Site Runoff Control	Construction Site Runoff Control Inspection Procedure	All general site civil construction sites (subdivisions, large commercial sites) were inspected by Engineering Inspectors. Inspectors point out issues that they observe to the contractors for corrective action. Currently, documentation of this occurs on the daily inspection report generated by the inspectors.		Year 1	Documentation of these inspections will be evaluated in Year 5 as to making the compilation of these statistics easier.
4: Construction Site Runoff Control	Construction Inspection Procedures	Inspectors currently review sites through their regular inspections and notify of any compliance issues.		Year 1	Inspections started in Permit Year 1; however formal inspection guidelines have just been prepared.

					A draft of the inspection guideline has been developed and will be launched in Year 5. The guideline will be used by inspectors. All deficiencies reported in the daily inspectors report will be entered into a compliance log (once developed).
4: Construction Site Runoff Control	Construction Plans Review	<p>The City's Site Development Review Committee (SDRC) process is practiced for plans review and approval of development projects. A total of 51 site plans were reviewed by SRDC this review period. When applicable, stormwater pollution prevention plans are received and reviewed as part of the SDRC processes.</p> <p>An engineering plans review log was established to track number of public infrastructure construction plans reviewed through this process.</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
4: Construction Site Runoff Control	Construction Community Education	<p>Contractors employed by the City are informed at pre-construction meetings of the requirements as the contract documents are reviewed.</p> <p>Contractors for development-related sites are educated when pre-construction meetings happen for those projects as well as discussions with the City's Engineering Inspectors and Engineers.</p> <p>New Design Guidelines have been added to the B/CS Unified Design Manual in the stormwater quality section with specific guidance given to the order of the BMP implementations. A copy of these standards is provided with this report.</p>		Year 3	Year 5 goal will be to develop educational handouts for contractors focusing on local storm water regulations now that the ordinance is in place. This MCM is a continuous effort that will be performed for the remainder of the permit term.
4: Construction Site Runoff	City Owned Construction Sites	Boiler plate contract documents require compliance with local, state and federal		Year 1	Year 5 will evaluate the best method for reporting the number of city construction

Control		construction stormwater regulations for city-owned and operated construction sites.			projects permitted under state and/or federal construction stormwater regulations.
5: Stormwater Management in New Construction & Redevelopment	Post-Construction Runoff Legal Authority	City of Bryan Ordinance No. 1887 governing stormwater management was approved on November 5, 2010.		Year 1	Completed Permit Year 3.
5: Stormwater Management in New Construction & Redevelopment	New Development and Redevelopment Plans Review	The City's Site Development Review Committee (SDRC) process is practiced for plans review and approval of development projects. A total of 51 site plans were reviewed by SRDC this review period. When applicable, stormwater pollution prevention plans are received and reviewed as part of the SDRC processes.		Year 3	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
5: Stormwater Management in New Construction & Redevelopment	Development Project Inspection Procedures	Inspectors currently review sites during the 1 year warranty process.		Year 1	Inspections started in Permit Year 1. The post construction inspection form will be developed in Year 5. The form will be used to close out a project, typically 1 year after construction ceases.
5: Stormwater Management in New Construction & Redevelopment	City Owned New Development and Redevelopment Projects	These types of projects are usually Capital Improvement Projects (CIP). All CIP projects are required contractually to comply with local, state and federal construction stormwater regulations for city-owned and operated construction sites. City development projects (buildings or facilities) go through the SDRC process for plan review.		Year 1	Year 5 will evaluate the best method for reporting the number of city construction projects permitted under state and/or federal construction stormwater regulations and inspected by the City.
5: Stormwater Management in New Construction & Redevelopment	Low Impact Development Standards	Open space requirements from Land and Site Development Review Ordinance require 15% open space with each development.		Year 1	Staff is evaluating the addition of buffer requirements along natural channels for protecting the natural floodplain areas.
6: Pollution Prevention and	Develop storm sewer inlet cleaning	80 creek-related work orders for sewer inlet cleaning were completed by Streets & Drainage personnel this review period.		Year 1	This MCM is a continuous effort that will be performed for the remainder of the permit term. Staff performance measures are being

Good Housekeeping	program	<p>Inspection of inlets/manholes for dry weather flows was performed as part of this service.</p> <p>An approximate one-mile section of Burton Creek was cleaned of small litter and large debris by Streets &amp; Drainage.</p> <p>Public drainage systems (culverts, inlets, creeks, etc.) are inspected and cleaned on a regular basis by Streets &amp; Drainage and Engineering personnel. Close attention is given to facilities in/near construction sites and other high impact areas. Work orders submitted on as-needed basis to perform necessary cleaning.</p>			evaluated to improve this BMP.												
6: Pollution Prevention and Good Housekeeping	Develop Regular Street Sweeping Frequency Program	All streets with a curb are scheduled to be swept 4 times per year equaling about 7,100 miles (estimated 80 tons of debris collected per year). The City currently has 2 high efficiency sweepers on route and 1 standby unit.		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.												
6: Pollution Prevention and Good Housekeeping	Medians and other Municipal Landscaped Areas	<p>The Solid Waste Department employs 3 Solid Waste Assessment Workers. These employees are charged with collection of litter and loose debris from the public rights-of-way. This level of service is very untypical for most municipalities. Calendar year totals for the Assessment Workers are below:</p> <table border="0" data-bbox="583 1013 1052 1133"> <tr> <td><b>Miles Traveled</b></td> <td><b>2010</b></td> <td><b>2011</b></td> </tr> <tr> <td></td> <td>5,033</td> <td>3,184</td> </tr> <tr> <td><b>Stops Cleaned</b></td> <td><b>2010</b></td> <td><b>2011</b></td> </tr> <tr> <td></td> <td>750</td> <td>893</td> </tr> </table> <p>Contractors are employed by the Parks and Recreation Department for litter abatement and emptying of pedestrian trash containers located in Downtown Bryan. Service is provided 4 times per month. Demand services are available as needed. Parks and</p>	<b>Miles Traveled</b>	<b>2010</b>	<b>2011</b>		5,033	3,184	<b>Stops Cleaned</b>	<b>2010</b>	<b>2011</b>		750	893		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
<b>Miles Traveled</b>	<b>2010</b>	<b>2011</b>															
	5,033	3,184															
<b>Stops Cleaned</b>	<b>2010</b>	<b>2011</b>															
	750	893															

		<p>Recreation team up with the Solid Waste Department to provide service to Downtown 3 times per week. Routine cleaning of public parks and park facilities is provided through contract.</p> <p>Right-of-way (ROW) mowing and maintenance is performed by City staff. Litter and debris are removed prior to mowing. Herbicide is applied on a limited basis. The City employs 8 Texas Department of Agriculture Licensed Applicators (2 Parks and Recreation, 6 Transportation).</p>			
6: Pollution Prevention and Good Housekeeping	Storm Drain Inlet/Catch Basin and Line Cleaning	<p>Storm sewer inlets are inspected on a regular basis by Streets &amp; Drainage personnel, especially in/near construction sites and other high impact areas. Work orders are submitted on as-needed basis to perform necessary cleaning.</p> <p>Line cleaning is performed as needed. Line cleaning is limited by employee turnover / training.</p>		Year 3	More detailed inspections of inlets/catch basins have begun and will continue for the remainder of the permit term.
6: Pollution Prevention and Good Housekeeping	Corporate yard and other Municipal Operation Areas	<p>Employees of the Fleet Services Department are trained on pollution prevention and proper disposal and storage of waste. Performed services (repair, parts storage, fluids storage, and waste containment/disposal) are performed under cover.</p> <p>Used oils and fluids from vehicle maintenance are recycled if service is available. The City has established agreements for collection and removal of used oil, oil filters, and used cooking grease.</p> <p>The City operates two designated vehicle wash bays for equipment wash down. A girt</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		trap is used for pretreatment of wash water. Both bays are connected to the sanitary sewer.			
6: Pollution Prevention and Good Housekeeping	Municipal swimming Pools, Fountains, Lakes, and other Water Bodies	The City operates 3 swimming pools and 3 splash pads. All facilities are connected to the sanitary sewer.		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
6: Pollution Prevention and Good Housekeeping	Spill Response and Pollution Prevention	<p>The City of Bryan's Fire Department is trained in spill prevention and response. Additionally, HAZWOPER training is provided to members of the City's Hazardous Materials Response Team and inspectors involved with illegal dump sites and clean up. These departments includes: Water Services, Environmental Services, and Transportation.</p> <p>The City operates three fuel sites (Waco Street, Fountain Street, and Coulter Airfield). Fountain Street possesses above ground fuel tanks. A Spill Prevention Control and Countermeasure (SPCC) Plan was drafted for Fountain Street (11/2010). The SPCC Plan establishes corrective actions and references required procedures for spill prevention and response. A copy of the SPCC is provided with this report.</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.
6: Pollution Prevention and Good Housekeeping	Public Employee Education (Stormwater BMPs)	<p>City staff is required to attend monthly safety meetings to receive information on various topics relating to employee safety. Hazard Communication was covered on 2/2010. Chemical handling, emergency response, site approach, waste storage and disposal, and material data safety sheets (MSDS) were covered topics.</p> <p>The City maintains 3 Industrial Stormwater Permits (Burton Creek WWTP, Still Creek</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

		<p>WWTP, and Coulter Airfield). Annual training in general aspects of each permit is provided to site staff.</p> <p>A PowerPoint presentation outlining general aspects of the General Permit has been drafted and will be presented in the Year 5 safety meetings. Department-specific BMPs and performance requirements relating to the General Permit will be covered.</p>			
6: Pollution Prevention and Good Housekeeping	Municipal Parks Clean Up	<p>Employees of the Fleet Services Department are trained on pollution prevention and proper disposal and storage of waste. Maintenance service (repair, parts, fluids, and waste) are under cover.</p> <p>100% of oils and fluids resulting from equipment maintenance are captured and removed by a service provider.</p> <p>The City operates two vehicle wash bays which are connected to the sanitary sewer.</p>		Year 1	Completed Permit Year 1 – this MCM is a continuous effort that will be performed for the remainder of the permit term.

<b>Table 2 - MCM Status</b>			
<b>MCM(s)</b>	<b>Measureable Goal(s)</b>	<b>Success</b>	<b>Proposed Changes (Submit NOC as needed)</b>
1	Increase education efforts within schools, community groups, and city-wide.	<p><u>Met goal.</u> Various brochures and pamphlets have been created in English and Spanish. Educational opportunities are plentiful. Partnerships are established between the Cities of Bryan and College Station, Brazos County, and Texas A&amp;M University. See above pages 17-23 for accomplishments and</p>	None

		MCM performance.	
2	Storm drain stenciling program	<p><u>In progress.</u> Launch of a storm drain stenciling program is pending. Staff is evaluating the best approach to satisfy this measure. Originally, painting of the storm drain inlets was determined to be the best course of action. Staff is experimenting with installing prefabricated metal inlet markers listing "drains to creek" in place of painting the inlets. The markers may be installed by (1) adhesive, (2) rivet, or (3) concrete anchors. An aggressive campaign to "stencil" pre 2003 inlets will begin once the best installation method for the markers is determined.</p> <p>Storm drain inlets constructed after 2003 display a general "dump no waste" message (manhole lids and metal <u>markers - where applicable</u>). A total of 3,245 inlets have been constructed after 2003.</p> <p><b>Example Marker</b></p> 	None
3	Enforcement of illicit discharges and connections	<p><u>Met goal.</u> City of Bryan Ordinance No. 1887 governing stormwater management was approved on November 5, 2010.</p>	None

		<p>City of Bryan Ordinance No. 1923 governing industrial pretreatment standards was approved on July 18, 2011.</p> <p>Work order requests for SSOs and sewer/facility inspections are tracked.</p> <p>SSO events are cataloged and mapped in GIS.</p> <p>Proactive smoke testing of sanitary sewer is performed and mapped.</p> <p>Sanitary sewer systems as built drawings, pipe sizes, manhole lids, etc. are mapped in GIS.</p> <p>City of Bryan's SSOI Report is provided with this report.</p>	
4	Construction Inspection Procedures	<p><u>Goal met.</u> While the Engineering Inspectors have been inspecting sites for appropriate stormwater quality controls for years, there has not been anything written down in the form of a checklist until the close of Year 4 when an inspection checklist for inspection procedures was drafted. All compliance issues are documented.</p>	None
5	Develop guidelines and standards for structural and nonstructural best management practices	<p><u>Goal met.</u> The existing B/CS Joint Design Guidelines have been modified to include specific timing as to when various best management practices should be implemented on a development (see attached). Specific BMP's the City is not interested in seeing utilized by contractors are listed in the document as well.</p>	None

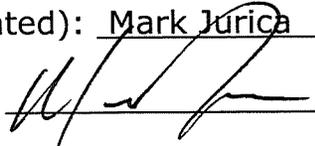
6	Pollution Prevention	<p><u>Goal met.</u> City staff participates in annual clean up events in conjunction with Keep Brazos Beautiful.</p> <p>Monthly safety meetings are performed by the Risk Management Department. General topics focusing on chemical use/application and general BMPs are discussed.</p> <p>State-registered chemical (herbicide and pesticide) applicator licenses are maintained lead staff in the Transportation and Parks &amp; Recreation Departments.</p> <p>SPCC Plan was established for the Fountain Street Fuel Island.</p>	None
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**D. 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.

Name (printed): Mark Jurica

Title: Treatment & Compliance Manager

Signature: 

Date: 10-28-2011

Name (printed): Jayson Barfknecht, PhD., P.E.

Title: Public Works Director

Signature: 

Date: 10/28/2011

Name (printed): Kean Register

Title: Acting City Manager

Signature: 

Date: 10/31/11

Name (printed): \_\_\_\_\_

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

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

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

Name (printed): \_\_\_\_\_

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

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

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

Add pages as needed.