

PHASE II MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

City of Georgetown

Year 1 Report

David Morgan

12/11/2015

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

The City of Georgetown has completed Year 1 of the MS4 TPDES General Permit for Phase II MS4s; completing all Year 1 activities described in the Storm Water Management Plan, approved by TCEQ Nov. 17, 2014. This report provides an in depth summary of all Year 1 activities including an assessment of appropriateness of selected BMPs, progress toward reducing pollutants of concern, the evaluation of success of implementation and a summary of Year 2 activities.

Texas Commission on Environmental Quality
Stormwater & Pretreatment Team Leader (MC-148)
P.O. Box 13087
Austin, Texas 78711-3087

Re: Phase II MS4 Annual Report Transmittal for the City of Georgetown, Texas
TPDES Permit Authorization: TXR040487

Dear Team Leader:

This letter serves to transmit the Year One Annual Report for the Texas Pollutant Discharge Elimination System Small Municipal Separate Storm Sewer System General Permit, Authorization Number TXR0400487 for the City of Georgetown, Texas.

A separate Notice of Change has been submitted based on the fact that changes have been proposed for the next permit year.

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

Sincerely,

Nathaniel Waggoner
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Georgetown Utility Systems
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Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number TXR040000

A. General Information

Authorization Number TXR040487 Annual Report Year: 1

MS4 Operator Level: 2 Name of MS4/Permittee: City of Georgetown

Contact Name: Nathaniel Waggoner Telephone Number: 512-930-8171

Mailing Address: 300-1 Industrial Ave, Georgetown Texas 78628

E-mail Address: nathaniel.waggoner@georgetown.org

B. Narrative Provisions (Part IV Section B.2.(a))

Provide information on the status of complying with permit conditions:(Part V - Standard Permit Conditions):

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.	X		The City has continually worked to complete all the Year 1 BMPs approved in the SWMP.
Permittee is currently in compliance with recordkeeping and reporting requirements.	X		The City has kept all documentation needed for proof of BMP completion.
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.)	X		The City does not discharge to any water bodies with TMDLs established, ensures EARZ compliance through development review, capital maintenance projects and Construction Specifications and Standards. The City has no history of compliance violations.

1. Provide a general assessment of the appropriateness of the selected BMPs. Use table below or attach a summary, as appropriate (See Example 1 in instructions):

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
1.0 Public Education, Outreach & Involvement	Develop a public education and outreach campaign focused on the reduction of the bacteria, floatables and fertilizer.	Yes, the City is experiencing tremendous growth in single family residential development. The development of this educational campaign has help strengthen the City's internal departmental coordination between Communications, Drainage, Development Review and Conservation Services departments.
1.1 Public Education, Outreach & Involvement	Acquire, create or support the creation of public education and outreach materials focused on garden and lawn care education.	Yes, over the last several years the City has developed programs to educate residents on effective lawn care and maintenance practices, focusing on conservation and reduction of pollutants. Through the MS4 Permit, The City has developed an ordinance to further these practices, reduce pollutants and conserve City resources in the management of the City's drainage system.
1.2 Public Education, Outreach & Involvement	Continue to collect Household Hazardous Waste from residents at designated facilities. Refine communication efforts to maximize citizen participation in proper disposal.	Yes, the City has a very effective hazardous waste recycling program. During the YR1 reporting period, the City provided vouchers for residents that resulted in 76K pounds of hazardous waste disposed of properly.
1.3 Public Education, Outreach & Involvement	Acquire, create or support the creation of public education and outreach materials focused on use of less toxic alternatives.	Yes, the City continues to refine education efforts and has included Conservation Services into the Stormwater Management Process to help improve best practices messaging.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
1.4 Public Education, Outreach & Involvement	Staff shall develop a program to recruit and manage volunteer efforts to install inlet markers throughout the city. Volunteers will be educated about water quality impacts.	Yes, through outreach efforts such as the Riparian and Stream Ecosystem workshop, the City has developed a list of potential volunteer groups.
1.5 Public Education, Outreach & Involvement	Acquire, create or support the creation of public education and outreach materials to be distributed in target neighborhoods to explain the purpose of the recent inlet marker installation and concepts associated with “drains to creek”.	Yes, the City developed education materials for target neighborhoods.
1.6 Public Education, Outreach & Involvement	Establish procedures for recruiting volunteers, identifying public spaces, facilitating clean-up and documenting activities. Volunteers will be educated about water quality impacts.	Yes, the program is under development.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
1.7 Public Education, Outreach & Involvement	Continue to promote multiple tree planting events. Staff shall develop/acquire and provide supplemental materials to make the connection between tree planting and creek water quality.	Yes, tree planting events are increasing in frequency and popularity.
1.8 Public Education, Outreach & Involvement	Create survey to be utilized for this permit term. Conduct initial survey and analyze responses. If warranted, revise outreach articles and materials in response to initial survey.	Yes, the City will conduct a biennium survey in 2016.
1.9 Public Education, Outreach & Involvement	Continue FOG (Fats, Oil or Grease) campaign. Refine communication efforts to maximize citizen awareness.	Yes, between June 2014 – Sep 2015, the FOG website has received 545 page views, 509 of which were unique.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
1.10 Public Education, Outreach & Involvement	Make SWMP publicly available.	Yes, the City has posted the Plan and program details to the City's website. Since posting, the webpage received 25 page views. The MS4 Coordinator and webmaster have established website analytics to provide monthly reporting. Both parties routinely review the analytics to ensure effective communication and availability of the City's SWMP.
2.0 Illicit Discharge Detection And Elimination	Review and revise, if needed, relevant ordinance(s) to provide authority to: prohibit illicit discharges and illicit connections, respond to and contain other releases, and prohibit dumping or disposal of materials other than stormwater.	Yes, through review the City has identified revision needs in both the Construction Specifications and Standards, the Unified Development Code and has drafted an Illicit Discharge Ordinance.
2.1 Illicit Discharge Detection And Elimination	Develop written procedures for responding to illicit discharge complaints. Create and maintain a complaint hotline database. Begin investigations of complaints as they are received.	Yes, staff has refined internal complaint procedures and developed internal training materials. Additionally, staff has developed an implementation program for the inclusion of drainage/stormwater assets into Infor Enterprise Asset Management System which incorporates the Customer Care hotline.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
2.2 Illicit Discharge Detection And Elimination	Continue to update the City's storm drain map as needed with identification of new, altered, and newly discovered storm drain features.	Yes, City's data collection and mapping efforts have improved through MS4 YR 1 efforts. Additionally, the City will incorporate these data into an asset management system.
2.3 Illicit Discharge Detection And Elimination	Continue operation and advertising of The Collection Station. Refine communication efforts to increase citizen participation in proper disposal.	Yes, participation up 11% over last year (tonnage).
2.4 Illicit Discharge Detection And Elimination	Consider appropriateness and need of adding remote drop off locations (e.g. oil igloos) for used motor oil collection to encourage greater compliance.	Yes, City is currently developing a 20 year solid waste program and will incorporate findings and procedures involving stormwater into the planning considerations.
2.5 Illicit Discharge Detection And Elimination	Education on elimination and detection for illicit discharge and dumping issues.	Yes, the City has developed training materials for elimination or detection and dumping issues for public service employees.
2.6 Illicit Discharge Detection And Elimination	Develop procedures to trace the source of an illicit discharge and eliminate the sources.	Yes, the City has established two reporting mechanisms through Code Enforcement and the Customer Care hotline and asset mapping (GIS). The City will consolidate the processes in 2016.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
2.7 Illicit Discharge Detection And Elimination	Continue to clean the sanitary sewer collection system.	Yes, sanitary sewer cleaning is an ongoing program with dedicated staff and resources.
3.0 Construction Site Storm Water Runoff Control	Develop and implement staff training for procedures, regulations and policies.	Yes, the City has developed illicit discharge training procedures.
3.1 Construction Site Storm Water Runoff Control	Document procedures for plan review. Review and refine plan review and permitting for all projects to add in compliance with the TPDES CGP.	Yes, City has procedures in place. The City has multiple methods to ensure compliance with the CGP.
3.2 Construction Site Storm Water Runoff Control	Document procedures for site inspection and enforcement. Review and update procedures for all projects to add in compliance with the TPDES CGP.	Yes, provided two training opportunities for inspection staff on NPDES, TPDES, TCEQ EARZ Regulations and the City's Stormwater Management Plan.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
4.0 Post Construction Storm Water Management	Document procedures and standards for plan review. Conduct plan review for all new construction and redevelopment projects to ensure designs address permanent water quality measures in the most sensitive areas of the City (i.e. Edwards Aquifer Recharge Zone).	<p>Yes, through the review we identified opportunities to catalog plan review procedures through MyPermitNow. The review also help identify needed revisions in the City's Construction Specifications and Standards as well as the incorporation of new language in the City's Illicit Discharge Ordinance requiring the development and maintenance of water quality measures.</p> <p>The MS4 Coordinator will ensure Development Engineers, Building Inspectors and Code Enforcement are included in annual training.</p>
4.1 Post Construction Storm Water Management	Refine and update procedures and regulations regarding detention and pollutant attenuation, as appropriate. Develop an adaptive management review process to ensure regular reevaluation and updating of these regulations based on new water quality information.	Yes, the City will review regulations and best practices in unison with the creation of its annual training program, as required under the Illicit Discharge MCM.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
4.2 Post Construction Storm Water Management	Set up processes and procedures to ensure maintenance by initial owner and subsequent property owners by requiring developers to create a maintenance plan and require that plan be recorded in the Williamson County property records.	Yes, through review the City has identified revision needs in both the Construction Specifications and Standards, the Unified Development Code and has drafted an Illicit Discharge Ordinance. The City has also implemented protocols in the Plan Review process to ensure maintenance of the facility.
4.3 Post Construction Storm Water Management	Require that operation and maintenance is performed and documented and that documentation is retained by O&M entity.	Yes, City has procedures in place. The City has multiple methods to ensure compliance with the CGP.
5.0 Pollution Prevention/ Good Housekeeping for Municipal Operations	Update the City's maps to include City owned facilities and controls.	Yes, the City has developed a schedule, based on priority watersheds to complete an inventory of City owned facilities and stormwater controls.
5.1 Pollution Prevention/ Good Housekeeping for Municipal Operations	Develop and implement staff training for procedures, regulations and policies.	Yes, training material has been developed to refine City processes and improved staffs understanding of regulations and policies.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
5.2 Pollution Prevention/ Good Housekeeping for Municipal Operations	Develop standard contract language and ensure all appropriate future contracts and updates contain language requiring contractor compliance.	Yes, contract language has been improved.
5.3 Pollution Prevention/ Good Housekeeping for Municipal Operations	Continue sweeping public streets and high priority facilities, document disposal procedure.	Yes, the City now effectively reports tonnage from street sweeping activities and is better able to predict operational costs and needs.
5.4 Pollution Prevention/ Good Housekeeping for Municipal Operations	Continue system cleaning, develop a list of potential problem areas and prioritize problem areas for increased inspection (for example, areas with recurrent illegal dumping).	Yes, as part of the facilities inventory, staff has developed an approach to identify problem areas and collect data for their evaluation and correction.
5.5 Pollution Prevention/ Good Housekeeping for Municipal Operations	Assess City owned facilities to determine which ones have a high potential to release pollutants. Prepare SOPs for identified high priority facilities.	Yes, assessment helped determine facility needs and identify need for adaptive management team.

MCM(s)	BMP	BMP is appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
5.6 Pollution Prevention/ Good Housekeeping for Municipal Operations	To reduce water quality impacts from fertilizers and pesticides, maintain licensed applicators by the Texas Department of Agriculture with annual training and certification on proper storage and application techniques.	Yes, Parks and Rec Department and Drainage maintained licensed applicators during the reporting period.
5.7 Pollution Prevention/ Good Housekeeping for Municipal Operations	Based on initial assessment of City-owned facilities, install improvements at various facilities.	Yes, the installed containment has been effective in controlling wash soaps, dirt and debris from leaving the wash bay area. Yes, conversion of hypochlorite to PPG tabs is complete for Rec Center, River Ridge, Village and Williams Dr.

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

Please see narrative below

The City has improved Public Education and Outreach efforts through the implementation of the MS4 YR 1 activities. Among one of the many techniques adopted by the City was the creation a webpage dedicated to the Stormwater Management Plan (SWMP) and TPDES standards (<https://transportation.georgetown.org/storm-water-management-plan-swmp/>). The City also used utility bill inserts and flyers to promote awareness of garden and lawn care education (Exhibit 19), floatable reduction efforts (Exhibit 20) and household hazardous waste reduction (Exhibit 21). In addition to printed materials and the SWMP webpage, the City also partnered with TX AgriLife Extension office to host a daylong seminar on riparian health and stream ecosystem. The agenda included a presentation of the City's MS4 program and stormwater management plan. The event had 85 attendees. The event resulted in significant increase in awareness of riparian health and ecosystem concepts including the impact of stormwater management. Results and demographic information are provided as an addendum to this report (Exhibit 26). Through its budgeting process, the City also increased funding for education and outreach on stormwater and water quality.

The City has improved its capacity to detect and eliminate illicit discharges within the corporate limits. Specifically, the City has developed public reporting procedures through its Customer Care Support line, construction site CGP compliance procedures, training of inspection staff and other municipal employees responsible for facility management, recording and records management procedures with Code Enforcement and the review of existing codes/ordinances and the creation of an illicit discharge ordinance. Through its budgeting process, the City also increased funding for storm water management.

The City has increased oversight thereby reducing the likelihood of run-off from construction site stormwater through training of its inspection staff. Inspection staff training helped identify areas of improvement in terms of process and implementation with CGP permit holders as well as improve staff understanding of the state of practice and how requirements are implemented in the field.

3. Provide the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals (See Example 2 in instructions):

MCM(s)	Measurable Goal(s)	Success
1.0 Public Education, Outreach & Involvement	Identify 3 most impactful community issues (with special consideration to aquifer and salamander concerns), identify associated audiences of each issue.	<p>Met goal.</p> <p>City has identified the following community issues:</p> <p>1) Chlorinated swimming pool discharges were selected due to impacts to N. Fork of the San Gabriel River. Audience includes the residents and HOAs along the N. Fork of the San Gabriel.</p> <p>2) Pet/animal waste selected due to impairment of bacteria in segment 1248C. Audience selected is Bark Park and residential neighborhoods along the N. Fork of the San Gabriel River.</p> <p>3) Floatables (trash). The City is working to coordinate volunteer trash clean up outside of scheduled trash collection. Visual inspection of local waterways reveals floatables. Audience includes the residents, HOAs and commercial entities along the N. Fork of the San Gabriel. Quantify reduction of ground litter at Creative Playscape, McMasters and downtown district due to Big Bellies (see Exhibit 20).</p>
1.1 Public Education, Outreach & Involvement	Identify primary garden and lawn care issues related to stormwater pollution.	<p>Met goal.</p> <p>Primary issues identified are:</p> <p>(1) lawn spoils in storm sewer (grass clippings, mulch, leaves etc.),</p> <p>(2) glyphosphates (broad spectrum herbicides) in lawn management practices in residential areas.</p> <p>Audience includes the residents, HOAs and landscaping service providers along the N. Fork of the San Gabriel as well as City contracted services at public facilities. (See Exhibit 23).</p>

MCM(s)	Measurable Goal(s)	Success
1.2 Public Education, Outreach & Involvement	Continue current household hazardous waste voucher program with facility in Weir, TX. Continue operation of two existing used oil drop off sites through collection contractor.	Met goal. Continuing an ongoing program with dedicated staff and resources. See Exhibit 21
1.3 Public Education, Outreach & Involvement	Identify primary household hazardous waste issues related to stormwater pollution.	Met goal. 1) Pesticides- Refer to PE-2.1. The City has developed a Best Management Practice (BMP) for residents, local contractors and public employees responsible for pesticide application (See Exhibit 1). 2) Paint materials- The City has developed a Best Management Practice (BMP) for local contractors to educate on proper disposal procedures of paint. (See Exhibit 22).
1.4 Public Education, Outreach & Involvement	Establish GIS database to store inlet locations and marking status. Import existing inlet location data into database.	Met goal. The City has limited inlet information. In FY 14/15 the City data base contains only outfalls. GIS database established (See Exhibit 3). Priority is N. Fork of the San Gabriel based on 2014 Texas Integrated Report.

MCM(s)	Measurable Goal(s)	Success
1.5 Public Education, Outreach & Involvement	Identify audience in PE-4.1 target neighborhoods and identify pertinent education and outreach approaches for audience.	Met goal. Residential areas (See Exhibit 23, P.E. - 1 YR 1) along the North Fork of the San Gabriel with the Urbanized Area (UA) and MS4 permit boundary based on 2014 Texas Integrated Report.
1.6 Public Education, Outreach & Involvement	Identify creeks to target for cleanup efforts.	Met goal. Residential areas (See Exhibit 23) along the N. Fork of the San Gabriel River with the UA and MS4 permit boundary based on 2014 Texas Integrated Report. Hosted Riparian and Stream Ecosystem Workshop focused on best management practices. Involved participants in priority areas including those along the N. Fork of the San Gabriel River (See Exhibit 26).
1.7 Public Education, Outreach & Involvement	Report numbers of tree plantings and planting events dates.	Met goal. 20 plantings completed 1/16/2015 and 1/10/2015
1.8 Public Education, Outreach & Involvement	Identify topics to be covered in survey and develop survey questions.	Met goal. Topics and survey developed.
1.9 Public Education, Outreach & Involvement	Continue existing FOG campaign.	Met goal. DRAFT Ordinance established (See Exhibit 17). City maintained public information page on FOG campaign https://gus.georgetown.org/water/fog-in-our-sewers/

MCM(s)	Measurable Goal(s)	Success
1.10 Public Education, Outreach & Involvement	Post SWMP on City website along with brief description of SWMP purpose and regulatory driver. Announce SWMP adoption through traditional or social media.	Met goal. The City has posted the Plan and program details to the City's website. Since posting, the webpage received 25 page views. The MS4 Coordinator and webmaster have established website analytics to provide monthly reporting. Both parties routinely review the analytics to ensure effective communication and availability of the City's SWMP.
2.0 Illicit Discharge Detection And Elimination	Review current ordinances Draft ordinance.	Met goal. The first reading of the ordinance was 11/24/2015, the second reading was 12/8/2015. See Exhibits 13 and 16.
2.1 Illicit Discharge Detection And Elimination	Review current citizen complaint system.	Met goal. See Exhibits 14 and 25.

MCM(s)	Measurable Goal(s)	Success
2.2 Illicit Discharge Detection And Elimination	Assess mapping needs and evaluate priority watersheds (related to Salamander habitat).	<p>Met goal.</p> <p>City has MS4 related data other than outfalls and City maintained ponds (See Exhibits 2 and 3).</p> <p>City is now employing ESRI Government model to manage stormwater database.</p> <p>City has developed data collection plan, prioritized by watersheds (See Exhibit 1).</p> <p>Met with Williamson County, 2/10/15 to discuss their mapping efforts, received data.</p> <p>Met with City of Round Rock, 4/16/15 to discuss their mapping efforts, received data.</p>
2.3 Illicit Discharge Detection And Elimination	Continue quarterly report of the Collection Station.	<p>Met goal.</p> <p>Continued quarterly reports and public outreach (See Exhibit 21).</p>
2.4 Illicit Discharge Detection And Elimination	Continue current program.	<p>Met goal.</p> <p>City is currently developing requirements for a 20 year Solid Waste Plan. City anticipates seeking funding for the Plan in FY 17/18. City is reviewing feasibility of adding oil recycle and recycling waste collection at the future Westside Service Center.</p>
2.5 Illicit Discharge Detection And Elimination	Develop training materials.	<p>Met goal.</p> <p>Materials developed. Training for 17 staff members completed 7/17/2015 (See Exhibit 15).</p>

MCM(s)	Measurable Goal(s)	Success
2.6 Illicit Discharge Detection And Elimination	List of investigation types and locations.	Met goal. See Exhibit 25.
2.7 Illicit Discharge Detection And Elimination	Clean 30,000 feet of sanitary sewer.	Met goal. Cleaned 30,119ft of sanitary sewer.
3.0 Construction Site Storm Water Runoff Control	Assess current inspection procedures to identify needs for training on TPDES construction general permit (CGP).	<p>Met goal.</p> <p>Met with Inspection Services and Development Engineers 4/2015 and reviewed inspection procedures. Developed plan review and site inspection documenting procedures using City permitting software. Added Stormwater Coordinator to the list of Plan review cadre. (See Exhibit 4).</p> <p>Attended Inspector Training April 21, 22 2015 for 8 inspectors (See Exhibit 5).</p> <p>Staff attended Environmental Stormwater Training with City of Waco May 28, 2015 (See Exhibit 5).</p> <p>Conducted Inspector Training July 2015 (See Exhibit 5).</p> <p>Supported Inspector attendance at StormCon 2015. Completed Certificate for Municipal Separate Storm Sewer System Specialist (CMS4S). (See Exhibit 5).</p>

MCM(s)	Measurable Goal(s)	Success
3.1 Construction Site Storm Water Runoff Control	Assess current plan review procedures related to TPDES construction general permit (CGP). Identify areas requiring improvement.	<p>Met goal.</p> <p>Met with Inspection Services and Development Engineers 4/2015 and reviewed inspection procedures (See Exhibit 4).</p> <p>Developed plan review and site inspection documenting procedures using City permitting software. Added Stormwater Coordinator to the list of Plan review cadre. (See Exhibit 6).</p> <p>Developed Pre-Con Checklist (See Exhibit 8).</p>
3.2 Construction Site Storm Water Runoff Control	Assess inspection procedures related to compliance with TPDES construction general permit (CGP). Identify areas requiring improvement.	<p>Met goal.</p> <p>Met with Inspection Services and Development Engineers 4/2015 and reviewed inspection procedures (See Exhibit 4).</p> <p>Developed plan review and site inspection documenting procedures using City permitting software. Added Stormwater Coordinator to the list of Plan review cadre. (See Exhibit 6).</p> <p>Developed Construction Site Illicit Discharge Compliance Process (See Exhibit 16).</p>

MCM(s)	Measurable Goal(s)	Success
4.0 Post Construction Storm Water Management	Assess current plan review procedures regarding review of permanent water quality measures. Identify areas requiring improvement.	<p>Met goal.</p> <p>Reviewed and updated City's Unified Development Code, included measures to improve water quality including heightened requirements for Total Suspended Solids (from 80% to 85%) (See Exhibit 7).</p> <p>Developed Preconstruction Checklist (See Exhibit 8).</p> <p>Met with Inspection Services and Development Engineers 4/2015 and reviewed inspection procedures. Developed plan review and site inspection documenting procedures using My Permit Now. Added Stormwater Coordinator to the list of Plan review cadre (See Exhibit 4).</p>
4.1 Post Construction Storm Water Management	Review procedures and regulations to identify required improvements.	<p>Met goal.</p> <p>Reviewed procedures and regulations to identify required improvements in April 2015 (See Exhibit 4).</p> <p>Implementing My Permit Now document verification procedures to ensure applicant has filed and received approval of WPAP and has filed that document with Williamson County.</p> <p>Established an Adaptive Management Working Group including (Safety, Environmental and Stormwater departments).</p>

MCM(s)	Measurable Goal(s)	Success
4.2 Post Construction Storm Water Management	Assess existing ordinances and codes, determine if modifications are necessary to allow City to require owners to develop and implement maintenance plans.	<p>Met goal.</p> <p>Included language in Ordinance (See Exhibit 13).</p> <p>Plan to update Construction Specifications and Standards, ECO1A, to require that developers comply with EARZ Recordation.</p> <p>Receipt of recordation in MyPermitNow.</p>
4.3 Post Construction Storm Water Management	Assess existing ordinances and development code to determine whether modifications are necessary to allow City to require owners to perform and document maintenance.	<p>Met goal.</p> <p>See Exhibit 13.</p> <p>Unified Development Code (UDC), CHp 11. Section 04.050 Drainage Easements B.4 <i>"All sedimentation, filtration, detention, and/or retention basins and related appurtenances shall be situated within a drainage easement that is recorded by separate instrument in the property records of Williamson County. The owners of the tracts upon which are located such easements, appurtenances, and detention facilities shall maintain same and be responsible for their upkeep. Notice of such duty to maintain shall be shown on the plats."</i></p>
5.0 Pollution Prevention/ Good Housekeeping for Municipal Operations	Review completeness of current mapping of City owned facilities and stormwater controls.	<p>Met goal.</p> <p>See Exhibits 2 and Exhibit 3.</p>

MCM(s)	Measurable Goal(s)	Success
5.1 Pollution Prevention/ Good Housekeeping for Municipal Operations	Continue current training programs.	<p>Met goal.</p> <p>Conducted Inspector Training April 21, 22 2015 for 8 inspectors (See Exhibit 5).</p> <p>Conducted Environmental Stormwater Training with City of Waco May 28, 2015 (See Exhibit 5).</p> <p>Conducted Inspector Training July 2015 (See Exhibit 5).</p> <p>Supported Inspector attendance at StormCon 2015. Completed Certification for Municipal Separate Storm Sewer System Specialist (CMS4S) (See Exhibit 5).</p>
5.2 Pollution Prevention/ Good Housekeeping for Municipal Operations	Review existing standard contract language related to minimizing stormwater pollutants.	<p>Met goal.</p> <p>See Exhibit 18.</p>
5.3 Pollution Prevention/ Good Housekeeping for Municipal Operations	<p>Identify Priority streets and schedule, Monthly reports on lane miles swept,</p> <p>Sweep 5,000 lane miles.</p>	<p>Met intention of goal however did not meet self-ascribed mileage goal. The City has modified the priority and frequency of sweeping to allow for the inclusion of street sweeping as part of capital projects delivery as well as city facility parking lot sweeping. The City will ensure every lane mile in the City is swept at least once annually.</p> <p>Additionally, the City has developed a street sweeping quantities application that allows the City to report tonnage collected during each event (See Exhibit 24).</p> <p>As conjunction with Part F of this report, (Part IV Section B.2. (e)) the City has submitted a Notice of Change (NOC). A copy of the Notice of Change is included in this report and provided to the Applications Review and Processing Team as required (See Exhibit 28).</p>

MCM(s)	Measurable Goal(s)	Success
5.4 Pollution Prevention/ Good Housekeeping for Municipal Operations	Continue cleaning activities.	Met goal. Continued inlet cleaning program. Developed prioritized inlet identification and mapping program.
5.5 Pollution Prevention/ Good Housekeeping for Municipal Operations	Assess 3 facilities.	Met goal. Assessed Georgetown Municipal Complex (GMC). Assessed Parks Administration Building. Assessed Georgetown Recreation Center. (See Exhibit 12).
5.6 Pollution Prevention/ Good Housekeeping for Municipal Operations	Maintain copies of licenses.	Met goal. City maintained 2 licenses JUN14-SEP15 (See Exhibit 9).
5.7 Pollution Prevention/ Good Housekeeping for Municipal Operations	Install speed bump around fleet vehicle car wash.	Met goal. See Exhibit 11.
5.8 Pollution Prevention/ Good Housekeeping for Municipal Operations	Install containment around soil, mulch and crushed granite storage area.	Met goal. See Exhibit 10.

MCM(s)	Measurable Goal(s)	Success
5.9 Pollution Prevention/ Good Housekeeping for Municipal Operations	Switch from hypochlorite to PPB tabs at pools.	Met goal. See Exhibit 12.

Stormwater Monitoring Data (Part IV Section B.2.(b))

1. The MS4 has conducted analytical monitoring of stormwater quality and submitted in the annual report.

Yes No

- a. 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 currently relies on the Brazos River Authority (BRA) and TCEQ monitoring data for both multiple sites within the City's MS4 jurisdiction. BRA monitors these water ways for indications of water quality & TCEQ assesses these waterways every 2 years as part of updating the Texas Water Quality Inventory and 303(d) List. The City of Georgetown has participates in the BRA Clean Rivers Program Stakeholders List and the TCEQ Surface Water Quality Standards Advisory Work Group in order to maintain awareness of water quality monitoring and evaluation efforts.

C. Impaired Waterbodies (Part IV Section B.2.(c))

1. If applicable, explain below or attach a summary of any activities taken to address the discharge to impaired waterbodies, including any sampling results and a summary of the small MS4's BMPs used to address the pollutant of concern:

There are no waterbodies with assigned TMDLs within the City's MS4 jurisdictional boundaries. Stream segments and associated impaired parameters in the vicinity of the City of Georgetown included in the Texas 303(d) list in the 2012 Texas Integrated Report are shown in Figure 2 and Table 2 of Exhibit 30 of this report. The only segment listed in the 2012 Texas Integrated Report within the MS4 jurisdictional boundary is 1248_01 with a level of concern based on screening levels (CS) is the North Fork of the San Gabriel River. A discussion of activities taken to address the discharge to impaired waterbodies follows below.

According to the 2014 DRAFT Texas Integrated Report (TIR), segment 1248_01, San Gabriel/North Fork San Gabriel River, is listed as impaired for General Use due to total dissolved solids and chloride. For chloride, the segment is listed as a Category 5c, "Additional data or information will be collected and/or evaluated for one or more parameters before a management strategy is selected." For TDS, the segment is listed as Category 5b, "A review of the standards for one or more parameters will be conducted before a management strategy is selected, including a possible revision to the TSWQs."

According to the 2015 Brazos River Basin Highlights Report, "A request for revision of the standard from 350 mg/L to 400 mg/L total dissolved solids (TDS) in segment 1248_01 was sent to

the EPA on April 23, 2014. TCEQ is awaiting EPA approval of the new standard. If approved, the TDS impairment could be removed." Guidance from the BRA, as documented in the, is to "Await EPA approval of revised standards." (See Exhibit 33).

According to the 2014 DRAFT Texas Integrated Report (TIR), segment 1248C, Mankins Branch, is listed as impaired for to bacteria and listed as a Category 5b, "A review of the standards for one or more parameters will be conducted before a management strategy is selected, including a possible revision to the TSWQs."

The City has used findings from the adopted 2012 TIR and DRAFT 2014 TIR to inform its Public Education and Outreach and efforts. Specifically, the City included the impairment findings as the number one (#1) criteria for prioritizing mitigation efforts (see Exhibit 26); prioritizing data collection, inlet marking/creek cleanup programs and public education and outreach in order to better address the possible sources. Additionally, the City has established communication with the Brazos River Authority concerning future monitoring activities and is now a member of the BRA Clean Rivers Program Stakeholder Involvement process.

2. Describe the implementation of targeted controls if the small MS4 discharges to an impaired water body with an approved TMDL (*Part II Section D.4.(a)*):

N/A – No TMDL(s) have been established for impaired water bodies in the City of Georgetown MS4 jurisdiction.

3. Report the benchmark identified by the MS4 and assessment activities (*Part II Section D.4.(a)(6)*):

Benchmark Parameter <i>(Ex: Total Suspended Solids)</i>	Benchmark Value	Description of additional sampling or other assessment activities	Year(s) conducted
N/A	N/A	N/A	N/A

4. Provide an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark (*Part II Section D.4.(a)(4)*):

Benchmark Parameter	Selected BMP	Contribution to achieving Benchmark
N/A	N/A	N/A

5. If applicable, report on focused BMPs to address impairment (*Part II Section D.4.(a)(5)*):

Pollutant to Address <i>(Ex: Bacteria)</i>	Description of Focused BMP	Comments/Discussion
PE-1.1 Develop a public education and outreach campaign focused on the reduction of the bacteria, floatables and fertilizer.	Identify 3 most impactful community issues (with special consideration to aquifer and salamander concerns), identify associated audiences of each issue.	<p>City has identified the following community issues:</p> <p>1) Chlorinated swimming pool discharges selected due to N. Fork of San Gabriel impacted for chlorine. Audience includes the residents and HOAs along the N. Fork of the San Gabriel.</p> <p>2) Pet/animal waste selected due to impairment of bacteria in segment 1248C. Audience selected is Bark Park and residential neighborhoods along the N. Fork of the San Gabriel.</p> <p>3) Floatables (trash). The City does not currently coordinate volunteer trash clean up outside of scheduled trash collection. Visual inspection of local waterways reveals floatables. Audience includes the residents, HOAs and commercial entities along the N. Fork of the San Gabriel. Quantify reduction of ground litter at Creative Playscape, McMasters and</p>

Pollutant to Address <i>(Ex: Bacteria)</i>	Description of Focused BMP	Comments/Discussion
		downtown district due to Big Bellies (See Exhibit 20).
PE-5.1 Establish procedures for recruiting volunteers, identifying public spaces, facilitating clean-up and documenting activities. Volunteers will be educated about water quality impacts.	Identify creeks to target for cleanup efforts.	Residential areas (See Exhibit 23) along the North Fork of the San Gabriel with the UA and MS4 permit boundary based on 2014 Texas Integrated Report. Hosted Riparian and Stream Ecosystem Workshop focused on best management practices. Involved participants in priority areas including those along the N. Fork of the San Gabriel. (See Exhibit 29)
GH-10.1 Based on initial assessment of City-owned facilities, install improvements at various facilities.	Switch from hypochlorite to PPB tabs at pools.	Conversion complete.

6. Describe progress in achieving the benchmark (*Part II.D.4.(a)(6)*):

For example, the MS4 may use the following indicators:

- number of sources identified or eliminated;
- decrease in number of illegal dumping;
- increase in illegal dumping reporting;
- number of educational opportunities conducted;
- reductions in sanitary sewer flows (SSOs)
- increase in illegal discharge detection through dry screening

Benchmark Indicator	Description/Comments
N/A	N/A

D. Stormwater Activities (Part IV Section B.2.(d))

Describe any stormwater activities the MS4 operator has planned for the next reporting year. Use the table or attach a summary, as appropriate:

See Exhibit 34.

E. SWMP Modifications (Part IV Section B.2.(e))

1. 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

If ‘Yes’, report on changes made to measurable goals and BMPs:

MCM(s)	Measurable Goal(s) or BMP(s)	Implemented or Proposed Changes (Submit NOC as needed)
5	Identify Priority streets and schedule, Monthly reports on lane miles swept, Sweep 5,000 lane miles	Revised goal. The City modified the priority and frequency of its street sweeping program. Instead of sweeping every road within the City every 30 days, the City has organized the sweeping schedule according to roadway classification; effectively sweeping every road every 90 days beginning with arterial roadways as the primary focus and working towards the sweeping of local roadways by the end of the 60 day period.

Note: If changes include additions or substitutions of BMPs, include a written analysis explaining why the original BMP is ineffective or not feasible and why the replacement BMP is expected to achieve the goals of the original BMP.

2. Explain additional changes or proposed changes not previously mentioned (i.e. dates, contacts, procedures, annexation of land etc.):

N/A.

F. Additional BMPs (Part IV Section B.2.(f))

Provide a description and schedule for implementation of additional BMPs that may be necessary, based on monitoring results, to ensure compliance with applicable TMDLs and implementation plans.

BMP	Description	Implementation Schedule (Start Date etc.)	Status / Completion Date (completed, in progress, not started)
N/A	N/A	N/A	N/A

G. Additional Information (Part IV Section B.2.(g))

1. Is the 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:

N/A

2.a. Is the named permittee sharing a SWMP with other entities?

Yes No

2.b. If 'yes,' is this a system-wide annual report including information for all permittees?

Yes No

If 'Yes,' list all associated permit numbers and permittee names (add additional spaces or pages if needed):

Authorization Number: _____N/A_____

Permittee: _____N/A_____

H. Construction Activities (Part IV Section B.2.(h-i))

1. a. Does the permittee utilize the optional seventh MCM related to construction?

Yes No

1. b. If 'yes,' then provide the following information for this permit year:

The number of municipal construction activities authorized under this general permit	N/A
The total number of acres disturbed for municipal construction projects	N/A
The number of construction projects in the jurisdiction of the MS4 where the permittee was not the construction site operator (as provided in submittals to the MS4 operator via notices of intent or site notices)	N/A

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

I. 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): David Morgan Title: City Manager

Signature: _____ Date: _____

Note: If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

J. Exhibits

Exhibit 0 - City of Georgetown MS4 Jurisdictional Boundary

Exhibit 1 - Stormwater BMP Educational Flyer

Exhibit 2 - City Maintained Facilities

Exhibit 3 - MS4 GIS Database Tracker (YR 1)

Exhibit 4 - Plan Review and Inspection Procedures Review (YR 1)

Exhibit 5 - Environmental Stormwater Inspection Training (YR 1)

Exhibit 6- Construction Plan Review and Permitting Integration into MPN (YR 1)

Exhibit 7- UDC Chp.11 Water Quality Improvements (YR 1)

Exhibit 8- PreCon Checklist (YR 1)

Exhibit 9- Pesticide Applicator License (YR 1)

Exhibit 10 -Parks Administration Building Soil Containment

Exhibit 11 -Fleet Services Wash Bay Containment (YR1)

Exhibit 12 -Facilities Review (YR1)

Exhibit 13 -Draft Illicit Discharge Ordinance_11.24.2015

Exhibit 14 - Stormwater Customer Escalation Proposal

Exhibit 15 - Staff IDDE Education and Training (14JUL2015)

Exhibit 16 - Construction Site Illicit Discharge - Compliance Process

Exhibit 17 - FOG Ordinance and FY14-15 SSO Annual Report

Exhibit 18 - Standard Contract Terms and Conditions (Illicit Discharge Abidance Language 2015)

Exhibit 19 - Garden and Lawn Care Education (MAR2015)

Exhibit 20 - Community Education - Floatables (BigBellyTrashCans)

Exhibit 21 - HHHW Voucher Summary (OCT13-OCT15)

Exhibit 22 - Paint Disposal BMP

Exhibit 23 - Priority Areas

Exhibit 24 - Street Sweeping Priority Areas and Reports

Exhibit 25 - MS4 Code Enforcement Incident Log (YR 1)

Exhibit 26 - Riparian and Stream Ecosystem Workshop

Exhibit 27 - UDC Chapter-11- Drainage Easement Recordation and Maintenance

Exhibit 28 - TCEQ Form 20392 (Notice of Change)

Exhibit 29 - Water Quality Monitoring Sites

Exhibit 30- 2012 & 2014 Integrated Report and BRA River Basin Assessment-Impaired bodies in Georgetown

Exhibit 31- YR2 Activities