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December 27, 2016

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 City of Carrollton MS4
TPDES Authorization: TXR040326

Dear Team Leader:

This letter serves to transmit the required annual report for the Texas Pollutant Discharge Elimination System Small Municipal Separate Storm Sewer System General Permit, Authorization Number TXR040326 for the City of Carrollton.

The annual report is for Year 3. The reporting period's beginning October 1, 2015 and ending September 30, 2016.

A separate Notice of Change has not been submitted based on the fact that changes have not been proposed for the next permit year.

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

Sincerely,

Ta' Sorriaga
Environmental Quality Manager
City of Carrollton

ENVIRONMENTAL SERVICES

1945 E. Jackson Rd., Carrollton, TX 75006 | 972.466.3060 | Fax: 972.466.3175
P.O. Box 110535, Carrollton, TX 75011-0535 | cityofcarrollton.com

Phase II (Small) MS4 Annual Report Form
 TPDES General Permit No. TXR040000

A. General Information

1. Authorization Number TXR040326
 Reporting Year: 3
 Annual Reporting Option Selected: Fiscal Year Last day of fiscal year: September 30th
 Reporting Period Beginning Date: October 1, 2015
 Reporting Period End Dates: September 30, 2016
 MS4 Operator Level: 4
 Name of MS4: City of Carrollton Telephone Number: 972-466-3066
 Contact Name: Ta Sorriaga
 Mailing Address: 1945 E. Jackson Rd., Carrollton, TX 75006
 Email Address: ta.sorriaga@cityofcarrollton.com
 A copy of this annual report was submitted to the TCEQ Regional Office? Yes. USPS Certified Mail No. 7015 1520 0002 5582 2911
 Region the annual report was submitted. TCEQ Region 4

B. Status of Compliance with the MS4 GP and SWMP

- 1. Provide information on the status of complying with permit conditions.**
 a. Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ? Yes
 b. Permittee is currently in compliance with recordkeeping and reporting requirements? Yes
 c. Permittee meets the eligibility requirements of the permit (e.g. TMDL, Edwards Aquifer limitations, compliance history, etc.)? Yes

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

BMP	Objective – BMP Description	Appropriateness – BMP appropriate for reducing the discharge of pollutants in stormwater (yes or no). Explain.
I.1 Storm Water Reading Materials	To educate all groups through different types of reading materials including news articles, brochures, posters and notice letters on impacts of storm water on water quality, hazards associated with illegal discharges and improper disposal of waste, and steps they can take to reduce pollutants in storm water.	Yes – Since the materials come in various formats it reaches out to a variety of groups and a large number of people. The message of reducing the discharge of pollutants appears in thorough explanations, action items, illustrative photos and other formats that not only appeal to various folks but reiterates the message of protecting stormwater from pollution.

1.2 Public Presentations and Educational Events	To educate residents, businesses, visitors and commercial and industrial facilities about impacts of storm water on water quality, hazards associated with illegal discharges and improper disposal of waste, and steps they can take to reduce pollutants in storm water.	Yes – Each presentation or educational booth is tailored to cater to the target audience thus delivering the topic in a relevant and understandable form.
1.3 Promotional Items	To educate all groups by sending storm water messages and promoting the hotline number by providing useful items free of charge.	Yes – Giveaways are great especially as these are practical items that people use daily, such as pencils, erasers, sharpeners, jar openers, pet waste bag holders, and the like.
1.4 Annual “March is Texas SmartScape™ Month	To educate residents, businesses, visitors and commercial and industrial facilities about using native and adapted plants to improve water quality.	Yes – It is a great tool for residents and businesses with lawns to tend and a great time of the year to start planning. Conducting this campaign in March allows for adequate time in planning and ensuring success for the people’s efforts at helping to improve stormwater quality.
1.5 Environmental Education for Commercial and Industrial Facilities	To educate commercial and industrial facilities about impacts of storm water on water quality, hazards associated with illegal discharges and improper disposal of waste, and steps they can take to reduce pollutants in storm water through meetings and hand-outs.	Yes – Both general pollutants as well as characteristic pollutants from specific commercial and industrial operations are explained. This ensures a comprehensive and relevant discussion of reducing stormwater pollution from these sources.
1.6 Environmental Education for Construction Site Personnel	To educate construction site personnel on TPDES Construction General Permit and city ordinance requirements through handouts and a brief presentation to ensure controls for erosion/sediments, wastes and other pollutants at construction sites	Yes – A construction information packet is distributed directly to the owners or contractors, who have operational and financial controls over the construction project. The presentation/overview lets them know exactly what we expect from them and their management of the site.
1.7 Storm Drain Marking	To educate all groups through placards placed on the storm drain to not dump or discharge any pollutants into the storm drain and where the storm drain goes.	Yes – The storm water message is placed directly on the storm drain inlet and it informs anyone who steps up to it two basic concepts: one, that these structures link rain to the creeks and therefore, two, that no pollution should be sent down through these inlets. This BMP is a real-time teaching method.
1.8 Storm Water and Pollution Prevention Videos	To educate all groups about impacts of storm water on water quality, hazards associated with illegal discharges and improper disposal of waste, and steps they can take to reduce	Yes – These videos are great educational tools because these are dynamic, include real-life situations that folks can relate to and most importantly stormwater pollution prevention

& Public Service Announcements	pollutants in storm water through videos.	recommendations that they can follow. These videos also incorporate the printed words.
1.9 TCEQ FOG Initiative	To educate restaurants, apartment managers, apartment tenants and industries about fats, oils and grease and ways to reduce the possibility of a sanitary sewer overflow through brochures, posters, website, inspections and presentations.	Yes – The information is distributed directly to the appropriate groups whose operations would have a big impact on the sewer collection system and the wastewater treatment plant and therefore can best benefit from this training.
1.10 Household Hazardous Waste Site	To educate residents about proper disposal of household hazardous waste and where they can dispose of their wastes through both articles and a website.	Yes – This provides concrete information to residents on how to properly dispose of their household hazardous wastes, at the same time providing a mechanism for citizens to provide feedback to the city.
1.11 Pet Waste Education	To educate pet owners about the importance of cleaning up after their pets.	Yes – Information is distributed directly to the appropriate group and educates the group that has the most control over this.
1.12 Environmental Services website	To educate all groups on storm water issues through a web site that is available every day of the year.	Yes – Educational information is available every day of the year from any computer to those who seek the information.
1.13 Electronic Newsletter for City Employees	To educate public service employees on storm water issues and or pollution prevention topic.	Yes – It is distributed directly to all employees and copies printed for those without computer access. Provides stormwater pollution prevention information employees can use in their daily lives, at the same time reiterating their role as city employees in preventing stormwater pollution.
1.14 Environmental Educational School Kit	To provide educational materials to teachers to use in the classroom.	Yes – These are distributed to the schools in line with their academic or extra-curricular programs. These are helpful to and welcomed by the teachers and students alike.
1.15 Comply with State and Local Public Notice Requirements	To involve the public by soliciting comments on the Storm Water Pollution Prevention Ordinance and the NOI and SWMP as required.	Yes – Gives the public a chance to comment on ordinances and SWMP prior to approval by City Council or the TCEQ.
1.16 Public Meetings	To get input and support from citizens and businesses about the SWMP	Yes – Not only does this provide another way to educate residents on the SWMP activities, but it also ensures buy-in or ownership over the activities from citizen and business input.
1.17 Illicit Discharge Reporting Line	To provide a means for the public to report illicit discharges 24 hours a day that the city may not notice.	Yes – This lets the public report violators that the city may not discover.
1.18 Volunteer Creek Cleanup	To give residents and businesses an opportunity to participate in cleaning the city.	Yes – This is another tangible way to involve citizens, groups, and businesses to help clean-up our waterways.
1.19 Citizens Advisory	To involve residents, industries, school districts, etc to be	Yes – The broad representation of various groups (two

Committee	involved in the implementation of the SWMP.	independent school districts, businesses, citizen and a representative from the city's Neighborhood Advisory Commission) ensures input from the main sectors within the city.
2.1 Storm Sewer System Map	To complete and verify a map of all outfalls in the city.	Yes – This map of the outfalls and inlets facilitates an efficient and systematic method to trace discharges to the stormwater system, as well as mitigating releases to stormwater system.
2.2 Storm Water Pollution Control Ordinance	To develop and implement an ordinance to prohibit non-storm water discharges.	Yes – This gives the city the legal authority to prohibit and enforce non-storm water discharges into the storm water system. The ordinance also serves to inform every one of their responsibilities towards preventing stormwater pollution.
2.3 Spill Response	To respond quickly to and clean up accidental or intentional releases of hazardous materials by having a staff member available for spill response 24/7.	Yes – This ensures coverage by trained staff for spill remediation, reporting and enforcement during all times, thereby minimizing the adverse impact of releases to the stormwater system.
2.4 Illicit Discharge Reporting Line	To provide a means for the public to report illicit discharges 24 hours a day that the city may not notice.	Yes – This allows citizens to report discharges 24 hours a day and therefore ensures the timely response by trained staff to respond to these illicit discharges.
2.5 Construction Plans Review and Site Inspection for Illicit Connections	To review construction plans and perform site inspections for detection and elimination of illicit connections.	Yes – This ensures that there are no illicit connections during the building process.
2.6 Illegal Dumping and Litter Control	To eliminate illegal dumping and littering through abatement and enforcement activities.	Yes – This not only establishes the quick removal of illegal dumping and litter but also deterrence of repeat violations.
2.7 Liquid Waste Program	To reduce the impact that liquid waste haulers and liquid waste generators have on our water quality through inspections, permits, and monitoring.	Yes – This program lays down the permitting process, responsibilities and sanctions for violators which will limit stormwater pollution from indiscriminate dumping of liquid waste and negligent/lack of grease/grit trap maintenance.
2.8 Maintenance Program for Sanitary Sewers	To prevent and reduce sanitary sewer overflows through proactive maintenance of the sanitary sewer system.	Yes – This maintenance program reduces and prevents sanitary sewer overflows, thus reducing and preventing stormwater pollution.
2.9 Pet Waste Management	To require pet owners to remove pet wastes from both public and private areas.	Yes – This program not only establishes the responsibilities of pet owners to clean-up after their pets, but also educates them on the impact of pet waste on the quality of surface water and provides them with reminders and trash bags at dogs parks.
2.10 Dry Weather	To participate in the regional protocol for dry weather	Yes – This is a clear method way to detect illicit discharges and

Discharge Screening	screening and purchase items to use for monitoring.	thereby the remediation, elimination and targeted education of the areas where these are detected.
2.11 Household Hazardous Waste Program	To provide residents with a free means of disposing of their household hazardous waste.	Yes – The program allows residents to dispose of their household hazardous waste properly at no cost and at their curbside, thereby encouraging for the timely and easy disposal versus the inconvenient collection, storing and travelling to collection sites.
2.12 Water Main Breaks	To implement a response plan to reduce the amount of chlorine that gets discharged into creeks from water main breaks.	Yes – This response plan can help minimize the impact that chlorine and sediment have on our creeks and wildlife.
2.13 Employee Training for Illicit Discharges	To train field employees on spotting illicit discharges and who to contact when they see one	Yes – This enables the city to have many more eyes looking for illicit discharges and allows for quicker response and less damage to wildlife and surface waters.
3.1 Ordinance for Construction Site Erosion and Sediment Controls	To develop an ordinance requiring construction site operators to implement appropriate erosion and sediment control and to control wastes at construction sites for all land disturbances regardless of size.	Yes - This provides the city with the legal authority to prohibit non-storm water discharges and to enforce compliance with federal/state storm water permits for construction activities.
3.2 Storm Water Pollution Prevention Plan Review and Submission of NOI/CSN	To ensure that construction sites are in compliance with the TPDES Construction General Permit by requiring the submission of their NOI, CSN and SWPPP for the city to review.	Yes – This ensures that the construction site operators are aware of their responsibilities and have put in writing their plan to meet the requirements under the TPDES Construction General Permit.
3.3 Construction Site Inspection	To ensure proper installation and maintenance of sediment and erosion control measures by inspecting all active private construction sites regardless of the size of the land disturbance.	Yes – The inspections ascertain that the storm water BMP's are installed and maintained and changes are updated on their Construction SWPPP.
3.4 Response to Citizen Complaints	To respond to public inquiries, concerns, and complaints regarding all construction sites regardless of the size of the land disturbance.	Yes - The hotline provides a means for the public to report problems at construction sites and allows the city to respond quickly, especially if there is an illicit discharge.
3.5 Storm Water Information Package for Construction Site Operators	To educate construction site operators by distributing the city and state construction requirements information package to construction site operators applying for a grading or building permit regardless of the size of the land disturbance	Yes - The handouts are a great way to distribute information to the contractors. In addition to the handouts, a mini presentation is given to the contractors and owners, so they hear exactly what the city expects of them.
3.6 Preconstruction Meetings	To discuss erosion/sediment controls, pollution prevention practices, waste management and TPDES requirements by conduct meetings for all operators of construction sites	Yes – The meetings provide information to the contractors prior to land disturbance. A mini presentation is included with a chance to ask questions.

	applying for a grading or building permit with the city regardless of the size of the land disturbance	
3.7	Demolitions To verify that demolition requirements for all demolition sites 1 acre or greater, or that are part of a larger common plan of development are complete before a permit is issued.	Yes – The review of the CSN or NOI and SWPP ensures that construction operators have applied for coverage under the TPDES Construction General Permit and that appropriate erosion and pollution control measures are planned for at the site. Yes – The training provides standard and updated information for construction inspectors to be able to give proper assessment of construction sites on whether it is protective of stormwater quality. Yes – This ensures that departments keep track of their active projects and their current construction phase.
3.8	Employee Training To train construction inspectors and enforcement officers on inspecting construction sites.	Yes – These are tools that direct growth to identified areas, protect ecologically sensitive areas, minimize impervious surfaces, and provide buffers along sensitive water bodies.
3.9	Construction Site Inventory To maintain an active construction project list.	Yes – This ensures that structural controls are performing to its optimum by setting inspection and maintenance schedules to be met.
4.1	Review of Subdivision Ordinance and General Design Standards To identify additional opportunities for implementation of control measures that will assist the city in reducing pollutants in storm water from new or redeveloped areas.	Yes – This comprehensive assessment considers water quality impacts from the beginning stages of a project and provides more opportunities for water quality protection.
4.2	Long-Term Operation and Maintenance Plan for Structural BMPs To ensure long-term operation and maintenance for structural BMPs constructed on public or private property.	Yes – Preserving pervious surfaces allows runoff to infiltrate into the ground, some of the pollutants present are removed by the soil and vegetation, while the volume and velocity of runoff are also reduced. Yes - This provides small but essential green spaces that break up a landscape of impervious surfaces and provide pockets for runoff infiltration.
4.3	Site Plan Review To ensure compliance with limits on maximum runoff rate, maximum impervious coverage, minimum landscaped area, minimum neighborhood park area for residential projects, and tree preservation requirements by reviewing all plans for new development/redevelopment	Yes – This ensures the storm water BMP's are installed properly, routinely inspected and maintained so that these
4.4	Green Space Preservation To ensure green space preservation by requiring each new or redeveloped single-family residential project that disturbs one acre or greater to dedicate a portion of the land to neighborhood parks.	
4.5	Tree Preservation Ordinance To prohibit the removal of certain species of protected trees.	
4.6	Inspection of Structural BMPs To ensure proper installation and maintenance of sediment and erosion control measures by inspecting all active private	

during Construction	construction sites regardless of the size of the land disturbance.	function efficiently in reducing/preventing polluted runoff from construction sites
4.7 Limited Mowing Height	To protect the soil from erosion due to rain or irrigation by limiting the mowing of grass in parks areas to a minimum height and by designating no-mow areas.	Yes - This protects the soil from erosion and can allow for additional infiltration, reducing runoff.
5.1 Parks and Open Space Maintenance	To reduce the amount of pesticides and fertilizer use in parks and open spaces through the use of native plants in landscaping at city facilities, use of mulching mowers. To remove trash from parks and open areas.	Yes - The utilization of native plants, mulching and the like reduces applied pesticides and fertilizers and serves as a pollutant source reduction practice.
5.2 Road and Bridge Maintenance	To reduce water pollution from streets by sweeping the major streets once a month, picking up trash from roadways and ditches, and implementing erosion and pollution prevention practices during street repair activities.	Yes - This directly removes various pollutants from roadways and ditches on a regular basis.
5.3 Fleet Maintenance	To implement pollution prevention measures through inspections good housekeeping practices and spill response.	Yes - This reduces the impact the city's fleet maintenance has on the environment as this also entails recycling and proper disposal of the various wastestreams like used oil, anti-freeze, tires.
5.4 Municipal Buildings and Parking Lots Maintenance	To develop and implement a pollution prevention plan for the maintenance of city facilities.	Yes - This reduces the impact the city may have on the stormwater system during building and parking lot maintenance.
5.5 Storm Sewer System Maintenance	To ensure the storm water system is functioning properly by inspecting and maintaining the storm water system.	Yes - These routine inspections help determine if there are problems with the storm water system and allows for the timely repair and maintenance to have these functioning efficiently.
5.6 Waste Reduction of Information Technology and Communications Operations	To further reduce pollution from hazardous materials in batteries and computer equipment by recycling or properly disposing these.	Yes - Properly disposal of batteries and computer equipment reduces the impact that these items have on the environment.
5.7 Grease, Sand and Grit Trap Maintenance	To prevent sanitary sewer overflows by maintaining the city's grease, sand and grit traps.	Yes - The inspections of these traps, both physically and through trip tickets, ensures proper frequency of pumping thereby preventing SSO's.
5.8 Sand Storage Locations	To reduce pollution run-off from sand, liquid deicer and salt through proper storage, efficient application and clean-up.	Yes - Proper storage, efficient application and timely cleanup reduces consequent pollution resulting from these necessary safety applications and also reduces material costs.
5.9 City Owned Facilities	To list, inspect, and determine each facilities potential to impact on stormwater.	Yes - These assessments aid in characterizing priority facilities in terms of monitoring and applying additional or site-specific

5.10 Structural Control Maintenance and Waste Disposal	To ensure the optimal operation of structural controls by keeping an inventory, ensuring maintenance of and properly disposing of waste in these structures.	BMPs to prevent pollution of the stormwater system. Yes – The maintenance of structural controls allows these to function properly and ensure the reduction of pollutants inform getting into the surface waters.
5.11 New Construction and Land Disturbance	To apply for TPDES General Construction Permit for applicable city construction projects and make sure all permit requirements are met.	Yes – This ensures that the city is in compliance with state requirements.
5.12 Contractor Oversight Procedures	Contractually require contractors to comply with pollution prevention measures and ensure through oversight that they are following those procedures	Yes – This enables the city better oversight over their hired contractors.
5.13 Fire Fighting Training Activities	To prevent the discharge of chlorinated water to the storm drain or creek by researching and implementing alternative methods for fire training activities	Yes - This reduces the intrusion of chlorine into the surfaces waters and reduces its impact on fish and wildlife.
5.14 Employee Storm Water Pollution Prevention Training Program	To train all employees responsible for municipal operations subject to the pollution prevention and good housekeeping program.	Yes – This training provides both general stormwater pollution prevention practices for municipal operations and also, discusses operation-specific consequences and BMPs to minimize/prevent any adverse impacts.
6.1 Inspection of Industrial Facilities	To conduct inspections of industries that may impact storm water through their discharges and identify or keep records of industries that are required to obtain a storm water permit.	Yes – This inspection of industries establishes direct contact with one group of potential stormwater polluters in the city, provides an assessment of their operations vis-à-vis impacts on stormwater quality and recommendations to get them into compliance with TCEQ's MSGP requirements and the city's stormwater ordinance.
6.2 Inventory/ Inspection of Commercial Facilities	To determine impacts on the storm water system through inventory and inspection of commercial facilities.	Yes – This inspection of commercial facilities establishes direct contact with one group of potential stormwater polluters in the city, provides an assessment of their services vis-à-vis impacts on stormwater quality and recommendations to get them into compliance with the city's stormwater ordinance.

3. Describe progress towards reducing the discharge of pollutants to the maximum extent practicable.

BMP	Objective – BMP Description	Does BMP Demonstrate a Direct Reduction in Pollutants? (Yes /No / Explain)
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1.17 Illicit Discharge Reporting Line	To provide a means for the public to report illicit discharges 24 hours a day that the city may not notice.	Yes – This provided a medium for the public report violators that the city may not have discovered. Citizens were active in reporting lawn companies blowing grass clippings and leaves into the storm inlet, color changes in the creeks and drained pool water onto the streets.
1.18 Volunteer Creek Cleanup	To give residents and businesses an opportunity to participate in cleaning the city.	Yes – This was an effective way to involve citizens and businesses to help cleanup and had a direct reduction in pollutants in the stormwater system. In this report period we had 6 volunteer groups that picked up 16 bags of trash for creek clean-ups; in the previous year there were 9 volunteer groups that collected 40 bags of trash; Medication Disposal Day – 1 event collected 2416 lbs which was higher than the previous year when we collected 2168 lbs; Cooking Oil Collection – 2 events (November 2015 collected 383 gallons and December 2015 collected 332.25 gallons where in the previous year, December 2014, we collected 501 gallons of grease)
2.3 Spill Response	To respond quickly to and clean up accidental or intentional releases of hazardous materials by having a staff member available for spill response 24/7.	Yes – Since spills do not just occur during office hours it is great to have a staff member available all the time. We responded to 412 spills and discharges this reporting term which is significantly higher than the previous year due to better reporting.
2.4 Illicit Discharge Reporting Line	To provide a means for the public to report illicit discharges 24 hours a day that the city may not notice.	Yes – This allowed citizens to report discharges 24 hours a day. Citizens are getting active in availing of this reporting resulting in the city being able to conduct enforcement on violators, and to remediate the impact and reducing a possible bigger impact.
2.5 Construction Plans Review and Site Inspection for Illicit Connections	To review construction plans and perform site inspections for detection and elimination of illicit connections.	Yes – Ensured that there were no illicit connections to the storm drain system during the building process.
2.6 Illegal Dumping and Litter Control	To eliminate illegal dumping and littering through abatement and enforcement activities.	Yes – The city responded to 23 reports of illegal dumping and the Public Works Streets crews removed 16,006 pieces of trash from roads this year. Both numbers were higher than the previous year when we responded to 11 illegal dumping cases and collected 13,939 pieces of trash and debris.

2.7	Liquid Waste Program	To reduce the impact that liquid waste haulers and liquid waste generators have on our water quality through inspections, permits, and monitoring.	Yes – This established a direct contact and monitoring with various groups of potential polluters. Liquid waste haulers were required to be permitted in the city, and use trip tickets to verify that they are disposing of their wastes properly. The city permitted 107 trucks from 32 companies, and 1 NOV and 5 citations issued for either not having a permit or not filling out/submitting trip tickets properly. In the previous reporting year the city permitted 103 trucks from 33 companies and issued 2 NOV's.
2.8	Maintenance Program for Sanitary Sewers	To prevent and reduce sanitary sewer overflows through proactive maintenance of the sanitary sewer system.	Yes – The regular cleaning of pinpointed areas have reduced and prevented sanitary sewer overflows through preventive maintenance. There were no documented SSOs from these maintained areas.
2.9	Pet Waste Management	To require pet owners to remove pet wastes from both public and private areas.	Yes – Required pet owners to clean-up after their pets. Fifteen (15) cases were investigated during this report period, which is lower than the previous year but still important. During the previous reporting period there were twenty-nine (29) cases investigated.
2.10	Dry Weather Discharge Screening	To participate in the regional protocol for dry weather screening and purchase items to use for monitoring.	Yes – This was a concrete way to detect and eliminate illicit discharges. 58 Outfalls were monitored 4 times during the reporting period for a total of 232 inspections. This is an increase in the number of outfalls monitored from the previous reporting period when 25 outfalls were monitored twice and 58 outfalls were monitored twice for a total of 166 inspections.
2.11	Household Hazardous Waste Program	To provide residents with a free means of disposing of their household hazardous waste.	Yes – This allowed residents to dispose of their household hazardous waste properly and at no cost. From October 1, 2015 - September 30, 2016 Carrollton residents disposed of 154,324.91 pounds of household hazardous waste through Waste Management's free service.
3.3	Construction Site Inspection	To ensure proper installation and maintenance of sediment and erosion control measures by inspecting all active private construction sites regardless of the size of the land disturbance.	Yes – This ensured that the storm water BMP's were installed and maintained.
3.4	Response to Citizen Complaints	To respond to public inquiries, concerns, and complaints regarding all construction sites regardless of the size of the land disturbance.	Yes - The hotline provided a means for the public to report problems at construction sites and allowed the city to respond quickly, especially if there was an illicit discharge.

4.7 Limited Mowing Height	To protect the soil from erosion due to rain or irrigation by limiting the mowing of grass in parks areas to a minimum height and by designating no-mow areas.	Yes - This requirement protected the soil from erosion and allowed for additional infiltration, reducing runoff and trapping some floatables.
5.1 Parks and Open Space Maintenance	To reduce the amount of pesticides and fertilizer use in parks and open spaces through the use of native plants in landscaping at city facilities, use of mulching mowers. To remove trash from parks and open areas.	Yes - This program reduced the amount of pollutants from city parks.
5.2 Road and Bridge Maintenance	To reduce water pollution from streets by sweeping the major streets once a month, picking up trash from roadways and ditches, and implementing erosion and pollution prevention practices during street repair activities.	Yes - This directly removed various pollutants from roadways and ditches. Major arterials and selected city parking lots were swept monthly. 2852.32 curb miles were swept during this reporting period where 2590.51 curb miles were swept during the previous reporting period. The city added a few more streets to the list in the middle of the last reporting year.
5.3 Fleet Maintenance	To implement pollution prevention measures through inspections good housekeeping practices and spill response.	Yes - This reduced the impact the city's fleet maintenance had on the environmental with the collection, recycling for energy-blending and proper disposal of its various waste streams.
5.4 Municipal Buildings and Parking Lots Maintenance	To develop and implement a pollution prevention plan for the maintenance of city facilities.	Yes - This reduced the impact the city had on the environment during building and parking lot maintenance.
5.5 Storm Sewer System Maintenance	To ensure the storm water system is functioning properly by inspecting and maintaining the storm water system.	Yes - Routine inspections helped determine if there were problems with the storm water system, then they prioritized the areas that needed to have maintenance. During this reporting period the city inspected 47.25% of the storm system which was more than the previous reporting period when they inspected 43.01%.
5.6 Waste Reduction of Information Technology and Communications Operations	To further reduce pollution from hazardous materials in batteries and computer equipment by recycling or properly disposing these.	Yes - There was proper disposal of batteries and computer equipment reducing the impact that these items would have had the environment. The city recycled 4438 pounds of electronic waste on 6/2/2016.
5.7 Grease, Sand and Grit Trap Maintenance	To prevent sanitary sewer overflows by maintaining the city's grease, sand and grit traps.	Yes - Maintaining the grease/grit traps helped prevent SSO's.


5.8 Sand Storage Locations	To reduce pollution run-off from sand, liquid deicer and salt through proper storage, efficient application and clean-up.	Yes – Proper storage, application and cleanup prevented unnecessary pollution.
5.9 City Owned Facilities	To reduce pollutants from city facilities and SOPs for high priority facilities	Yes – Through inspections and BMPs the amount of pollution from city facilities was reduced.
5.10 Structural Control Maintenance and Waste Disposal	To ensure the optimal operation of structural controls by keeping an inventory, ensuring maintenance of and properly disposing of waste in these structures.	Yes – Maintaining structural controls reduced pollutants in our creeks.
5.13 Fire Fighting Training Activities	To prevent the discharge of chlorinated water to the storm drain or creek by researching and implementing alternative methods for fire training activities	Yes - This reduced pollutants (chlorine) from being discharged into the storm drain or creek during training activities.
5.14 Employee Storm Water Pollution Prevention Training Program	To train all employees responsible for municipal operations subject to the pollution prevention and good housekeeping program.	Yes – City employees who could directly impact our stormwater through our city operations (like Parks, Streets, Drainage, Fleet) were trained so that they could identify areas in their work that could be causes for pollution and recognize or change behaviors. Training began in September 2016.
6.1 Inspection of Industrial Facilities	To conduct inspections of industries that may impact storm water through their discharges and identify or keep records of industries that are required to obtain a storm water permit.	Yes – This provided direct contact and inspections to look for potential or actual discharges with the industries in the city. During this reporting year the city inspected 227 industries while the previous reporting year the city inspected 148 industries.
6.2 Inventory/ Inspection of Commercial Facilities	To determine impacts on the storm water system through inventory and inspection of commercial facilities.	Yes – This provided direct contact and inspections to look for potential or actual discharges with the commercial businesses in the city (some commercial facilities, restaurants, and grit and grease traps). The city inspected 291 commercial facilities during this reporting period while they inspected 154 during the previous reporting period.

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

BMP		Measurable Goals	Success and How Goal was Achieved
1.1 Storm Water Reading Materials		1. Distribute copies of brochures to all display racks at city buildings and at all public events and presentations. (200 per year)	Exceeded Goal – distributed 1,764 brochures and educational materials. We also mailed 27 letters to

		residents on illegal dumping; 2 letters to fire sprinkler testing companies; 1 letter to an apartment complex on excessive grease in their lines; and 2,795 letters to residents on proper disposal of grass clippings.
	2. News briefs in local paper or mailers/utility bill inserts twice a year	Exceeded Goal – Articles in newsletters, local newspaper, city website, Facebook, Twitter, Instagram, and an HOA Newsletter 80 times throughout the report period.
	3. Continue to update and distribute the storm water letters to all apartment managers currently in the database.	Met Goal – Mailed letters to the 86 apartment complexes/managers.
1.2	Public Presentations	Exceeded Goal – conducted 9 presentations or outreach activities
1.3	Promotional Items	Exceeded Goal – Distributed 913 promotional items
1.4	Annual “March is Texas SmartScape™ Month”	Met Goal – Set up display windows at Carrollton’s 2 libraries during the month of March; distributed 200 TX SmartScape bookmarks at the libraries; “SmartScape Saves Money” ran in the February 2016 On the Horizon newsletter. Participated in the regional Texas SmartScape Plant Sales Event with Home Depot on May 21, 2016. On the SmartScape website, Carrollton residents had 1,071 sessions, with 62.96% being new sessions.
1.5	Environmental Education for Commercial and Industrial Facilities	Met Goal. Educational information was mailed to industries regarding renewing their authorization under MSGP. Pollution Prevention posters for food establishments were developed in the first permit term.
		Met Goal. Continued to distribute the pollution prevention posters to restaurants. Distributed educational materials to industries during the meeting held on September 13, 2016.
	3. Hold annual industry meeting	Exceeded Goal. Two (2) meetings were held: the first one was on August 9, 2016 for regulated industries; the second one was on September 13, 2016 for all industries required to renew or obtain coverage under

			the MSGP.
1.6 Environmental Education for Construction Site Personnel	1. Distribute information packet to 100% of applicants for a grading or building permit.		Met Goal – distributed stormwater information packet during preconstruction meetings.
1.7 Storm Drain Marking	1. Placement or replacement of 100 markers per year		Exceeded Goal – Residents and city employees placed 268 markers.
1.8 Storm Water and Pollution Prevention Videos and Public Service Announcements	1. Continue broadcast of Storm Water Management video or PSA's on local cable public access channel and on the stormwater webpage		Met Goal – Stormwater cable slides and PSAs every day. The PSAs ran every day at 6:45pm
	2. Evaluate acquisition of other videos, incorporate to video library if appropriate		Met Goal – No new videos were added to the library
	3. Maintain library of videos. Include information on the web site.		Met Goal – library of videos is available and included on the website.
1.9 TCEQ FOG Initiative	1. Distribute one to every new and existing restaurant currently in database listed as having a grease trap		Met Goal – TCEQ Grease posters are distributed to new establishments and exiting establishments during the appropriate inspections.
	2. Distribute one to every manager of an apartment complex currently in the database at least once every year.		Met Goal – distributed educational letter to apartment complex manager
	3. Routine inspections for posters displayed and redistribute posters as needed for every restaurant currently in database		Met Goal – this was checked during each routine inspection for applicable establishments and documented on the inspection sheet.
	4. Distribute grease control information to tenants in multifamily complexes yearly		Met Goal – distributed 16,118 grease control flyers to complexes from June 14, 2016 to June 20, 2016.
	5. Distribute grease control information to industries yearly		Met goal – no industries identified as needing the flyers
	6. Grease control information provided in water bills and/or in the city newsletter three times a year		Exceeded Goal – Five (5) articles on grease control appeared in the city newsletter, the Carrollton Leader, and the Carrollton Connection.
	7. Information posted on the city website		Met Goal – grease control information is available on the website at the following link: http://www.cityofcarrollton.com/departments/departments-g-p/public-works/fat-free-sewers .
	8. Three Presentations per year		Exceeded Goal – 20 presentations or educational

<p>1.10 Household Hazardous Waste Site</p>	<p>1. Develop one mailer or water bill insert per year 2. Distribute mailer or water bill insert yearly 3. Post information on the web page for every day of the year</p>	<p>events were conducted. Met Goal – one article/newsletter was developed Exceeded Goal – the article appeared in the November 2015 newsletter, Carrollton Leader, Facebook, Twitter, website, and an HOA newsletter. Cable screens also ran every day of the year. Met Goal – posted on the web page at: http://www.cityofcarrollton.com/departments/departments-g-p/public-works/trash-recycling/residential-service/household-hazardous-waste.</p>
<p>1.11 Pet Waste Education</p>	<p>1. Distribute to all residents adopting or reclaiming a pet, at presentations, and public events. 2. Maintain signs in parks and greenbelts as needed</p>	<p>Met Goal – The following educational items were distributed: bookmarks – 387; Pet waste containers with bags – 102; Animal Ownership brochures - 479 Met Goal – Signs are maintained. Also, put up new educational pieces at the Rosemeade dog park which included 6 signs that will be rotated to help remind residents to pick up after their pets, also added were 4 pooper scoopers (in addition to the bags that are provided), and are working to form a group called "Friends of the Carrollton Dog Parks".  Met Goal – the website is updated as needed</p>
<p>1.12 Environmental Services website</p>	<p>1. Continue updating the information on the web page</p>	<p>Met Goal – the website is updated as needed</p>
<p>1.13 Electronic Newsletter for City Employees</p>	<p>1. Distribution of two electronic newsletters per year</p>	<p>Met Goal – two newsletters were developed and distributed. The December 15, 2015 included information on stormwater pollution, washing city vehicles, and dumpsters. The June 2016 newsletter included information on the health of Carrollton's</p>

1.14	Environmental Educational School Kit	1. Distribute bags at events and or presentations 2. Review and update bags as needed	creeks and the water monitoring programs. Met Goal -- The information packet on the Water/Environmental education programs was emailed to a teacher in September Met Goal -- information is reviewed and updated. The information has been modified and emailed to the school district listing the programs that are available regarding stormwater and water conservation.
1.15	Comply with State and Local Public Notice Requirements	1. Publish notice of TCEQ determination on NOI and SWMP 2. Publish notice of Public Meeting if determined to be necessary by TCEQ 3. Implementation Complete	Completed -- January 9, 2015 Completed -- Not needed
1.16	Public Meetings	1. Public meeting to introduce SWMP 2. A public meeting to update/evaluate SWMP for the next permit term. 3. Implementation complete	Completed -- February 27, 2015 Completed May 14, 2015 Due December 12, 2018
1.17	Discharge Reporting Line	1. Maintain illicit discharge reporting line.	Due December 12, 2018 Met Goal -- the reporting line is still active.
1.18	Volunteer Creek and Greenbelt Cleanup, Recycling and Chemical Collection	1. One annual creek clean up or recycling with volunteers	Exceeded Goal -- Creek cleanups - 6 volunteer groups picked up 16 bags of trash; Medication Disposal Day -- 1 event collected 2416 lbs; Cooking Oil Collection -- 2 events (November 2015 collected 383 gallons and December 2015 collected 332.25 gallons)
1.19	Citizens Advisory Committee	1. Annual meetings with Citizen Advisory Committee. 2. Design and disseminate an electronic survey to Carrollton residents' citizens regarding stormwater issues.	Met Goal -- Meeting was held on April 21, 2015 On Track - Due December 12, 2018
2.1	Storm Sewer System Map	1. Verification of new or newly discovered outfalls. 2. Map continuously updated as new data is obtained	Met Goal -- 12 new outfalls were verified Met Goal -- IT updates the maps as new data is obtained
2.2	Storm Water Pollution Control Ordinance and Enforcement Response Guide	1. Review and revise the Stormwater Pollution Prevention Ordinance 2. Adoption of ordinance by City Council. 3. Establish the Enforcement Response Guide. 4. Commence implementation of ERG. 5. Implementation Complete	Completed December 15, 2015 Completed December 15, 2015 Met Goal -- the ERG has been established On Track -- due by December 12, 2017 On Track -- due by December 12, 2017

2.3	Spill Response	<ol style="list-style-type: none"> 1. Spill response plan in place. 2. Review and revise the spill response manual and database. <ol style="list-style-type: none"> 1. This BMP has been discussed in a previous section on the Public Participation and Involvement Minimum Control Measure, as BMP1.17. Achievements in this reporting period are described in said section. 	Met Goal – responded to # 412 spills or discharges Completed December 12, 2015 Met Goal – See BMP 1.17
2.4	Illicit Discharge Reporting Line	<ol style="list-style-type: none"> 1. 100 % new construction projects will undergo site plan review and will be inspected to ensure no illicit connections 2. Include plan review and site inspections for illicit connections in the appropriate SOP for construction 	Met Goal – 100% new construction projects underwent site plan review and were inspected to ensure no illicit connections. Met Goal – Building Inspection developed an SOP in July 2015 and Engineering developed one by December 2015.
2.5	Construction Plans Review and Site Inspection for Illicit Connections	<ol style="list-style-type: none"> 1. 90% active illegal dumping incidents respond within one hour. 2. 100% abatement of illegal dumping incidents 3. 100% incidents with identifiable responsible party to be followed by enforcement action 4. Inspect 40% storm inlets per year 5. 9000 pieces of trash collected from the roadways per year 	Met Goal – 1 of the 23 illegal dumping cases were active dumping and was responded to within 1 hour Met Goal – all cases were either abated or in the process of being abated. Met Goal – All illegal dumping cases where there was an identifiable party were followed up by an enforcement action. Exceeded Goal – 47.25% inlets were inspected Exceeded Goal – Collected 16,006 pieces of trash from the roadways.
2.6	Illegal Dumping and Litter Control	<ol style="list-style-type: none"> 1. 100% permitted liquid waste haulers inspected once a year 2. 100% permitted liquid waste haulers to submit used tickets monthly. 3. 100% identified facilities to use a permitted liquid waste hauler. 4. Inventory of septic tanks in the city. 5. Develop Procedures to prevent and correct any leaking on-site sewage disposal system. <ol style="list-style-type: none"> 1. Annual maintenance and inspection of sanitary sewer system. 2. Clean about 200 miles of sewer lines per year 	Met Goal – 32 companies with 107 permitted trucks Met Goal – 1 NOV and 5 citations issued for either not having a permit or not filling out/submitted trip tickets properly Met Goal – trip tickets are reviewed during each routine inspection Met Goal – a list was created of septic tanks in the city Due December 12, 2017
2.7	Liquid Waste Program	<ol style="list-style-type: none"> 1. 100% permitted liquid waste haulers inspected once a year 2. 100% permitted liquid waste haulers to submit used tickets monthly. 3. 100% identified facilities to use a permitted liquid waste hauler. 4. Inventory of septic tanks in the city. 5. Develop Procedures to prevent and correct any leaking on-site sewage disposal system. <ol style="list-style-type: none"> 1. Annual maintenance and inspection of sanitary sewer system. 2. Clean about 200 miles of sewer lines per year 	Met Goal Exceeded Goal – 209.2 miles were cleaned
2.8	Maintenance Program for Sanitary Sewers	<ol style="list-style-type: none"> 1. Annual maintenance and inspection of sanitary sewer system. 2. Clean about 200 miles of sewer lines per year 	Met Goal Exceeded Goal – 209.2 miles were cleaned

	<p>3. Smoke and dye testing of 100,000 feet per year.</p> <p>4. Conduct closed-circuit television inspections of 100,000 feet per year.</p> <p>5. Inspect 2100 manholes per year.</p> <p>6. Repair and/or bring to grade 300 manholes per year.</p> <p>7. Lift stations inspected monthly.</p> <p>8. Tag high-risk sections of sanitary sewer system for inspection/maintenance every 30 days (i.e. Maintain 30-day list). Review annually.</p>	<p>Exceeded Goal – 106,065 feet were tested</p> <p>Exceeded Goal – 114,152 feet were inspected</p> <p>Exceeded Goal – 2,750 manholes were inspected</p> <p>Exceeded Goal – 1,030 were repaired</p> <p>Met Goal – 988 inspections at the 19 lift stations</p> <p>Met Goal – the 30 day list was maintained and had 9 sites listed at the end of this report period.</p>
2.9 Pet Waste Management	<p>1. Investigate all (100%) complaints received regarding improper disposal of pet waste</p>	<p>Met Goal – Received 15 complaints and all were investigated; NCTCOG had 2 residents that pledged to pick up after their pets.</p>
2.10 Dry Weather Discharge Screening	<p>1. Employees or consultants attend the NCTCOG regional dry weather screening protocol training as needed.</p> <p>2. Review and revise if necessary the priority locations for screening.</p> <p>3. Review and revise the Dry Weather Field Screening Manual.</p> <p>4. Continue Dry Weather Field Screening at the priority locations.</p> <p>5. Implementation Complete</p>	<p>Met Goal - The training course was not offered this year, however, all employees needing to attend have Completed December 12, 2015 – See Appendix II</p> <p>Completed December 12, 2015</p> <p>Met Goal - performed in February/March 2016 and June 2016, monitoring data is in Appendix II</p> <p>Completed December 12, 2015</p>
2.11 Household Hazardous Waste Program	<p>1. Provide a household hazardous waste disposal program for Carrollton residents.</p>	<p>Met Goal – Free service through Waste Management http://www.cityofcarrollton.com/departments/departments-g-p/public-works/trash-recycling/residential-service. During this report period Carrollton residents disposed of/recycled 154,324.91 pounds of household hazardous waste through Waste Management’s free service.</p>
2.12 Water Main Breaks	<p>1. Response procedures in place.</p>	<p>Met Goal – Response procedure continued to be implemented</p>
2.13 Employee Training for Illicit Discharges	<p>1. Develop Training Program for all field employees</p> <p>2. Train all field employees.</p>	<p>Met Goal – A training program or SOP was developed to train field employees on IDDE detection.</p> <p>On Track – Training of employees began during this reporting cycle and was combined with the 5.14 BMP Pollution Prevention Training for applicable departments.</p>

3.1	Ordinance for Construction Site Erosion and Sediment Controls	<p>1. Review and revise the Stormwater and Flood Protection ordinance</p> <p>2. Review and revise the SWPPO</p> <p>3. Adoption of ordinance by City Council, publication</p> <p>4. Implement ordinance changes</p> <p>5. Establish the Enforcement Response Guide (ERG)</p> <p>6. Commence the implementation of ERG</p>	<p>Completed June 9, 2015</p> <p>Met Goal – The Stormwater Pollution Prevention ordinance was reviewed and revised.</p> <p>Met Goal – SWPPO changes were adopted by City Council on December 1, 2015.</p> <p>Met Goal – Changes have been implemented</p> <p>Met Goal – Developed July 25, 2016</p> <p>Due December 12, 2017 – On track</p>
3.2	Storm Water Pollution Prevention Plan Review and Submission of NOI/CSN	<p>1. Engineering and Development Services require copies of either CSN or NOI and SWPPP from all operators disturbing one or more acres of land</p> <p>2. Procedures in place to obtain and review NOI and SWP3 of all (100%) construction sites required to obtain a NPDES/TPDES storm water permit</p>	<p>Met Goal – Both departments require a SWPPP and NOI/CSN to be submitted before a permit is issued.</p>
3.3	Construction Site Inspection	<p>1. Conduct inspections of 100% NPDES/TPDES-permitted construction sites.</p> <p>2. Develop written procedures for site inspection and enforcement requirements.</p> <p>3. Develop inspection sheet for use during construction site inspections.</p>	<p>Met Goal – All construction sites that are greater or equal to 1 acre or are part of the larger common plan of development have been inspected during this report period.</p> <p>Met Goal – Engineering and Development Services have a SOP for site inspections and enforcement.</p> <p>Completed by December 12, 2015</p>
3.4	Response to Citizen Complaints	<p>1. Maintain "hotline" for construction site concerns</p>	<p>Met Goal – The "hotline" has been maintained for receiving citizen complaints which is the city's main line or the appropriate department's line. Development Services responded to 712 complaints.</p>
3.5	Storm Water Information Package for Construction Site Operators	<p>1. Update information package as needed</p> <p>2. Implement distribution plan through Engineering and Development Services</p>	<p>Met Goal – the package is updated as needed, it was updated after the changes to the SWPPO were adopted.</p> <p>Met Goal – the information was distributed during preconstruction meetings.</p>
3.6	Preconstruction Meetings	<p>1. Conduct preconstruction meetings with all (100%) applicants to a grading or building permit</p>	<p>Met Goal – Preconstruction meeting with all grading or building permit applicants.</p>
3.7	Demolitions	<p>1. Development Services requires copies of either CSN or NOI and SWPPP from all operators disturbing one or more acres of land, including the larger common plan of development</p>	<p>Met Goal – Development Services or Environmental Services required a copy of the SWPPP and NOI/CSN where applicable.</p>

	2. Obtain and review NOI's and SWPPP of all (100%) demolition sites required to obtain a NPDES/TPDES storm water permit	Met Goal – SWPPPs and NOIs/CSNs were obtained and reviewed as needed.
3.8 Employee Training	1. Train all employees responsible for the implementation of the construction stormwater program.	Met Goal – All applicable employees have been trained and refresher training is provided as needed.
3.9 Construction Site Inventory	1. Inventory of all permitted active public and private construction sites 1 acre or part of a larger common plan of development.	Met Goal – Development Services and Engineering maintain an inventory of their active construction sites.
4.1 Review of Subdivision Ordinance and General Design Standards	1. Review and update the Stormwater and Flood Protection Ordinance	Completed June 9, 2015
	2. Yearly review of the General Design Standards	Met Goal – changes went to Council on January 19, 2016
	3. Establish the Enforcement Response Guide	Met Goal – Developed July 25, 2016
	4. Commence implementation of the ERG	Due December 12, 2017 – On track
4.2 Long-Term Operation and Maintenance Plan for Structural BMPs	1. Identify procedures and methods to ensure long-term maintenance of structural BMPs	Met Goal - The city already had procedures and methods in place to ensure long-term maintenance of city structural BMPs. The revisions to the Stormwater and Flood Protection Ordinance also included more specific maintenance procedures for structural BMPs.
	2. Implement procedures and methods to ensure long-term maintenance of structural BMPs.	Met Goal - The city continued to implement procedures and methods to ensure the long-term maintenance of city structural BMPs.
	3. List of all Structural BMPs to be inspected.	Met Goal – a list of BMPs to be inspected has been created but will be continually updated as needed.
	4. Receipt of Maintenance Plan for structural controls installed at a site.	Due December 12, 2017
	5. Develop inspections of structural controls.	Due December 12, 2018
	6. Begin inspections of structural controls.	Due December 12, 2018
4.3 Site Plan Review	1. Site plan review of 100% new development/ redevelopment projects	Met Goal – Site plan review was performed on 100% of new and redeveloped projects.
	2. SOP for Construction Site Plan review	Completed December 12, 2015
4.4 Green Space Preservation	1. Implementation of green space preservation policies in 100% new projects	Met Goal - The green space preservation policies applied to 100% of new projects in this reporting term.
4.5 Tree Preservation Ordinance	1. Implementation of Tree Preservation Ordinance in 100% new projects	Met Goal - The Tree Preservation Ordinance continued to be implemented in this reporting period.

4.6	Inspection of Structural BMPs during Construction	See section 3.3, <i>Construction Site Inspection</i> .	Met Goal - See Section 3.3 Construction site inspection
4.7	Limited Mowing Height	1. All park areas will be mowed at a frequency to ensure a minimum height of 2.5 inches of ground coverage	Met Goal - mowers were set for a minimum height of 2.5 inches.
5.1	Parks and Open Space Maintenance	1. Mowing crews pick up trash during maintenance of public green areas (approximately 200 days per year). Use mulching mowers. Leaf blowers used to blow clippings back onto grass. 2. Buffer zones and no mow zones. 3. Continue to implement native species landscaping and mowing restrictions where applicable. 4. Develop schedules for chemical application on public spaces. 5. Develop a list of pollutants of concern from mowing, chemical application and planting vegetation. 6. Continue to implement the Integrated Pest Management Plan.	Met Goal – Mowing crews picked up trash at least 200 days per year; Use mulching mowers; leaf blowers were used to blow clippings back onto the grass. Met Goal – the city currently has 9 buffer and no mow zones to help with erosion and pollutant removal. Met Goal – wildflower mix was purchased in August 2016. Mowing height restrictions continued at 2.5 inches. Met Goal – An SOP with chemical applications was developed and implemented. Due December 12, 2017
5.2	Road and Bridge Maintenance	7. Proper disposal method for unused pesticides, herbicides and fertilizers. 8. Maintain Licensed Pesticide Applicators and Licensed Irrigators	Met Goal – Integrated Pest Management Plan continued to be implemented for Animal Services and Parks and Recreation. Met Goal – A disposal method has been included in the chemical application SOP. Met Goal – The city had 10 Licensed Pesticide Applicators (Parks 7, Animal Services 2, Development Services 1) and 6 Licensed Irrigators (Parks 3, ICGC 2, Development Services 1)
	1. Major arterials swept once a month. Including the selected municipal parking lots 2. Develop a procedure for street sweeping waste material disposal		Met Goal – 2842.32 curb miles were swept in this reporting year and included major arterials and selected municipal parking lots. Due December 12, 2016 – The procedure has been received from the contractor but was after this reporting period.
	3. Collect approximately 9000 trash and debris items from roadways and ditches		Exceeded Goal – 16,006 pieces of trash were collected.

	<p>4. Review and update erosion and pollution prevention guidelines for road and bridge repair operations.</p> <p>5. Develop list of Pollutants of concern from road and bridge maintenance.</p>	<p>Met Goal – SOP for road and bridge repair operations was reviewed and revised.</p> <p>Due December 12, 2017</p>
<p>5.3 Fleet Maintenance</p>	<p>1. Weekly inspection/cleaning of maintenance and fueling facilities. Continue to implement spill response and pollution prevention plans (SPCC) at each fueling facility.</p> <p>2. Develop a SOP for each of the three maintenance facilities.</p> <p>3. All vehicles and equipment washed in a bays or commercial vehicle wash.</p> <p>4. Develop SOP for vehicle and equipment washing</p> <p>5. Sand Traps are services as required by city ordinance. All wash bays are under a cover. Continue spill response and pollution prevention plans. Spill kits and signs deployed at all fueling stations. Continue plan to address leaks from vehicles during normal use by a City employee.</p> <p>6. Parts and materials stored under cover. Continue recycling program for materials.</p> <p>7. Continue to implement plan to address leaks from vehicles during daily use by an employee.</p> <p>8. Maintain SWPPP/Annual Inspection of the Central Service Center maintenance yard.</p> <p>9. Quarterly inspections of the ICGC.</p>	<p>Met Goal – inspections and maintenance at fueling facilities continued.</p> <p>Due December 12, 2017</p> <p>Met Goal – city vehicles and equipment were washed at the wash bays or a commercial facility.</p> <p>Completed by December 12, 4014 and was posted at the Central Service Center wash bay.</p> <p>Met Goal – traps were serviced as required, wash bays are under cover, spill response & pollution prevention plans were continued, spill kits and signs were maintained, the plan to address leaks from vehicles during normal use by a city employee continued.</p> <p>Met Goal - Fleet stores all materials under cover or inside the building except repaired vehicles and vehicles to be repaired. Recycling for used oil, antifreeze, oil filters, used tires, batteries, cardboard, spent solvent, and scrap metal. Public Works stored chemicals under cover and most of the sand bins are covered.</p> <p>Met Goal – Forms are signed by all employees during New Employee Orientation (NEO)</p> <p>Met Goal – An inspection was done on June 16, 2016 for the Public Works yard and June 17, 2017 for Fleet maintenance yard.</p> <p>Met Goal – Inspections were performed quarterly, except when the golf course was closed due to flooding.</p>
<p>5.4 Municipal Buildings and Parking Lots Maintenance</p>	<p>1. Continue to develop and implement a spill response and pollution prevention plan for building and parking lot maintenance (SPCC). Continue research in waste reduction/ recycling options.</p>	<p>Met Goal – SPCC and the pollution prevention plan continued to be implemented. Waste reduction and recycling options continued for office materials. The</p>

		<p>city recycled 17.85 tons of office materials.</p> <p>Met Goal – municipal buildings, parking lots and the public works yard were inspected.</p> <p>Met Goal – the SPCC was updated in September 2016.</p> <p>Due December 12, 2017</p>
	<p>2. Continue inspections of Municipal Buildings and parking lots, including the Public Works yard</p> <p>3. Evaluate spill response and pollution prevention plan, adjust plan as necessary</p> <p>4. Develop a list of pollutants of concern from municipal buildings and parking lot maintenance</p>	
5.5	Storm Sewer System Maintenance	<p>1. Maintain the plan for storm water system maintenance.</p> <p>2. Maintain the current schedule for maintenance operations. Revise as necessary.</p> <p>3. Continue current procedures to address complaints and other problems. Revise as necessary.</p> <p>4. Continue to inspect lift stations monthly</p> <p>5. Develop a list of potential problem areas for increased inspections.</p>
5.6	Waste Reduction of Information Technology and Communications Operations	<p>1. Continue recycling of all batteries, cables, aluminum scrap, computer parts, and printer cartridges from IT operations</p> <p>2. Continue feasible procedures to collect and recycle batteries from deployed equipment</p> <p>Met Goal - Procedures are in place and continue to be implemented to collect and recycle batteries from deployed equipment including cell phones, two way radios and uninterruptible power supply. Batteries were brought to Xerox, where they determined if the batteries were still useful or not, then the batteries were placed in a plastic bag and box provided by the recycling company.</p> <p>Met Goal – except at the new fire station which will be pumped every 6 months and the Senior Center which is pumped as needed since it is not used for commercial purposes but is being changed to every 6 months.</p> <p>Met Goal – except at the Senior Center which was pumped as needed but is being changed to every 6 months. The new fire station will be added to the pumping schedule.</p>
5.7	Grease, Sand and Grit Trap Maintenance	<p>1. Continue current pumping frequency</p> <p>2. Evaluate pumping frequency according to City Ordinance and change as necessary.</p>

5.8	Sand Storage Locations	<ol style="list-style-type: none"> 1. Limit sand, salt and liquid deicer application to minimum amount necessary to ensure safe driving and walking conditions 2. Maintain MSDS on site for salt and liquid deicer 3. Implement appropriate controls for sand, salt and liquid deicer storage. 4. Identify pollutants of concern from the three materials used. 5. Develop written Pollution Prevention Measures to reduce the discharge of pollutants from this BMP 6. Inspect controls for sand, salt and deicer storage. 7. Implementation Complete 	<p>Met Goal – Due to the warm weather during this report period no sand, salt or liquid deicer was used.</p> <p>Met Goal – MSDSs are maintained on site</p> <p>Met Goal – Controls are in place for sand, salt, and liquid deicer</p> <p>Met Goal – pollutants of concern have been identified.</p> <p>Due December 12, 2017</p> <p>Met Goal – Sand, salt and liquid deicer controls were evaluated during the facility assessments.</p> <p>Due December 12, 2017</p> <p>Met Goal – an inventory was completed for city owned facilities</p> <p>Met Goal – a map of city owned facilities was developed including on GIS</p> <p>Met Goal – an assessment of all applicable city owned facilities has been completed.</p> <p>Met Goal – High priority facilities have been identified.</p> <p>Due December 12, 2017</p> <p>Due December 12, 2018</p> <p>Met Goal – the inventory of structural controls has been updated.</p> <p>Met Goal – maintenance of detention/retention ponds and swales are done by Parks or a contractor; maintenance and inspections of channels is done by Public Works</p> <p>Met Goal – The city complied with TPDES construction permit requirements for those projects that were applicable.</p> <p>Met Goal - Contractors were required to comply with</p>
5.9	City Owned Facilities	<ol style="list-style-type: none"> 1. Inventory of city owned facilities. 2. Map of city owned facilities & other stormwater controls. 3. Assessment of city owned facilities. 4. Identification of high priority facilities. 5. Development of facility specific SOPs for high priority facilities. 6. Inspection of city facilities. 	<p>Met Goal – an inventory was completed for city owned facilities</p> <p>Met Goal – a map of city owned facilities was developed including on GIS</p> <p>Met Goal – an assessment of all applicable city owned facilities has been completed.</p> <p>Met Goal – High priority facilities have been identified.</p> <p>Due December 12, 2017</p> <p>Due December 12, 2018</p> <p>Met Goal – the inventory of structural controls has been updated.</p> <p>Met Goal – maintenance of detention/retention ponds and swales are done by Parks or a contractor; maintenance and inspections of channels is done by Public Works</p> <p>Met Goal – The city complied with TPDES construction permit requirements for those projects that were applicable.</p> <p>Met Goal - Contractors were required to comply with</p>
5.10	Structural Control Maintenance and Waste Disposal	<ol style="list-style-type: none"> 1. Review, update and log data of the inventory of structural controls 2. Continue inspection of structural controls and implement maintenance plan. 	<p>Met Goal – the inventory of structural controls has been updated.</p> <p>Met Goal – maintenance of detention/retention ponds and swales are done by Parks or a contractor; maintenance and inspections of channels is done by Public Works</p> <p>Met Goal – The city complied with TPDES construction permit requirements for those projects that were applicable.</p> <p>Met Goal - Contractors were required to comply with</p>
5.11	New construction and Land Disturbance	<ol style="list-style-type: none"> 1. Comply with TPDES construction storm water permit requirements for projects in which the city meets the definition of operator. 2. Require contractors of municipally owned construction projects to 	<p>Met Goal – The city complied with TPDES construction permit requirements for those projects that were applicable.</p> <p>Met Goal - Contractors were required to comply with</p>

		comply with TPDES construction storm water permit requirements.	the TPDES construction permit requirements.
5.12	Contractor Oversight Procedures	<ol style="list-style-type: none"> 1. Develop a list of contractors. 2. Contractually require contractors to comply with stormwater control measures, good housekeeping practices and facility-specific SOPs. 3. Develop Oversight Procedures 4. Implementation Complete 	<p>Met Goal – A list has been developed of all city contractors.</p> <p>Met Goal – Pollution prevention language has been added to all applicable contracts.</p> <p>Due December 12, 2018</p> <p>Due December 12, 2018</p> <p>Met Goal – Fire continues to implement BMPs during training activities.</p>
5.13	Fire Fighting Training Activities	<ol style="list-style-type: none"> 1. Continue implementing BMPs during training activities 	<p>Met Goal – staff attends the NCTCOG Pollution Prevention Task Force Meetings and participates in developing training materials,</p>
5.14	Employee Storm Water Pollution Prevention Training Program	<ol style="list-style-type: none"> 1. Participate in the NCTCOG regional program to identify pollution prevention training materials and/or develop new materials as needed. 2. Continue training all employees in departments responsible for operations or maintenance functions. Document training. 	<p>On Track – Due December 12, 2016 – Training began in September 2016 for Public Works Streets and Drainage, Parks and Athletics for Spanish speaking employees, and Public Works Traffic. In addition to this employees continue to attend stormwater training such as Riparian & Stream Ecosystem, EPA MS4 Conference, Municipal Industrial Inspector Workshop, Potable Water Discharge Workshop, and BMP Maintenance and Post Construction Workshop.</p>
6.1	Inspection of Industrial Facilities	<ol style="list-style-type: none"> 1. Annually, inspect 100 industrial facilities. 2. Identify industries needing to apply for a TPDES/NPDES permit and require proof of permit coverage within 6 months of identification. Survey to be done every 3 years. 3. Implementation complete 	<p>Exceeded Goal – Inspected 227 industries (27 regulated and 200 from waste surveys) – the regulated industries received 25 NOVs and 3 citations.</p> <p>Met Goal – Industries have been identified and required to obtain coverage under the MSGP. The waste survey is done every 3 years.</p> <p>Met Goal</p>
6.2	Inventory/ Inspection of Commercial Facilities	<ol style="list-style-type: none"> 1. Maintain an inventory of commercial facilities with grease/grit traps 2. Conduct one inspection per year for all food establishments 3. Conduct at least 25 commercial inspections per year 4. Inspect all active grease/grit traps in database once per year 	<p>Met Goal – an inventory of grease/grit traps has been maintained.</p> <p>Exceeded Goal – many food establishments were inspected multiple times – conducted 1,536 inspections at 633 food establishments</p> <p>Exceeded Goal – Inspected 291 commercial facilities.</p> <p>Met Goal – All active grease/grit traps have been</p>

inspected	
Met Goal	5. Implementation complete

C. Stormwater Data Summary

Provide a summary of all information used including any lab results to assess the success of the SWMP at reducing the discharge of pollutants to the MEP

Surface Water Monitoring was conducted four times in this reporting period. The monitoring data results were utilized as one of the criteria in selecting the outfalls monitored during Dry Weather Screening. The Surface Water monitoring data was used to obtain a Water Quality Index (WQI) rating for each monitored segment. The WQI was based on five parameters: pH, DO, Turbidity, Total Phosphate and Nitrate. The WQI calculator used was from the Wilkes University Center for Environmental Quality Engineering and Earth Sciences website at <http://www.water-research.net/watqualindex/index.htm>. Six creeks were monitored with 18 sampling locations, namely: Indian Creek, Dudley Branch, Furneaux Creek, Hutton Branch, Cooks Branch and the Valwood Improvement Channel. The WQI results from the January 2016 data were 15 segments had a Good rating, 3 had an Excellent rating. The results from the June 2016 monitoring had one location with a Medium rating, 13 with a Good rating, 1 with a Good/Excellent rating, and 3 with an Excellent WQI rating. The surface water monitoring data was reviewed in June 2015 and 58 new outfalls were selected to be monitored for Dry Weather Screening. Dry Weather Screening was conducted at the 58 outfalls in February/March 2016 and June 2016. The data from the surface water monitoring and dry weather screening are included in this report and can be found in Appendix I and II. The city responded to 412 spills and illicit discharges, 23 illegal dumping cases and 15 complaints about pet waste. Parks removes trash from greenbelts and waterways at least 200 days a year and 16,006 pieces of trash was removed from the roadways. Residents disposed of 154,324.91 pounds of household hazardous waste through the free service. The city swept 2842.32 curb miles which included the major arterials and selected city parking lots. 47.28% of storm drain inlets were inspected. Due to the warm weather, no sand, salt or liquid deicer was used for safety on roads, bridges or walkways. We conducted stormwater inspections at 1,536 food establishments, 291 commercial facilities, and 227 industries. All active grease traps were inspected.

D. Impaired Water Bodies

1. Does the MS4 discharge to an impaired water body on the Texas 303(d) List
2. Does the MS4 discharge to a water body on the Index of All Impaired Waters?

No
No

E. Stormwater Activities Next Reporting Year

Describe any activities planned for the next permit year/reporting cycle.

Activities for the next reporting cycle include all of these activities: (1) with a year due of 0; (2) with the year due of December 12, 2016 that were already being implemented within this September 30, 2016 reporting cycle, and (3) with a year due of December 2017.

The activities with a due date of December 12, 2015 and already being implemented within this reporting period (and will be reported in the next reporting cycle) include:

MCM	BMP	Stormwater Activity	Description/Comments
5	5.2 Road and Bridge Maintenance	Develop a procedure for street sweeping waste material disposal	Discussions regarding the contractor requirement for a written procedure in the disposal of street sweeping wastes were started in this reporting period. (Note. The actual submission was actually met prior to the due date, but after this reporting period.)
5	5.14 Employee Storm Water Pollution Training Program	2. Continue training all employees in departments responsible for operations or maintenance functions. Document training.	On Track - Training began in September 2016 for Public Works Streets and Drainage, Parks and Athletics for Spanish speaking employees, and Public Works Traffic. (Note. All training was completed before the due date but after this reporting period). New employees of these departments shall be trained under the New Employee Orientation Stormwater Pollution Prevention and as part of their on-the-job training until the next round of formal trainings in 2018.

The activities due by December 12, 2017 include:

MCM	BMP	Stormwater Activity	Description/Comments
2	2.2 Enforcement Response Guide	Commence implementation of ERG.	The ERG will be utilized during enforcement procedures.
2	2.7 Liquid Waste Program	Implementation Complete Develop Procedures to prevent and correct any leaking on-site sewage disposal system.	This activity will be complete by the due date. Procedures will be developed detailing how to prevent and correct leaking on-site sewage disposal systems
4	4.2 Long-Term Operation and Maintenance Plan for Structural BMPs	Receipt of Maintenance Plan for structural controls installed at a site.	Maintenance plans for structural controls will be required to be submitted to the city.
5	5.1 Parks and Open Space Maintenance	Develop a list of pollutants of concern from mowing, chemical application and planting vegetation.	A list of pollutants will be developed.
5	5.2 Road and Bridge Maintenance	Develop list of Pollutants of concern from road and bridge maintenance.	A list of pollutants will be developed.
5	5.3 Fleet Maintenance	Develop a SOP for each of the three maintenance facilities.	An SOP will be developed for the three maintenance facilities.

5	5.4 Municipal Buildings and Parking Lots Maintenance	Develop a list of pollutants of concern from municipal buildings and parking lot maintenance.	A list of pollutants will be developed.
5	5.5 Storm Sewer System Maintenance	Develop a list of potential problem areas for increased inspections.	A list of potential problem areas will be developed for increased inspections.
5	5.8 Sand Storage Locations	Develop written Pollution Prevention Measures to reduce the discharge of pollutants from this BMP.	Pollution prevention measures will be written to reduce the discharge of pollutants from sand, liquid deicer and ice melt.
		Implementation Complete.	The BMP will be completely implemented.
5	5.9 City Owned Facilities	Development of facility specific SOPs for high priority facilities.	Facility specific SOPs for the high priority facilities will be developed.

F. SWMP Modifications and Additional Information

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

G. Additional BMPs for TMDLs and I-Plans

1. 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.
 Additional BMPs are not necessary at this time since we do not have a TMDL or implementation plan.

H. Additional Information:

1. Is the permittee relying on another entity/ies to satisfy some of its permit obligations?
 2a. Is the permittee part of a group sharing a SWMP with other entities?
 2b. Is this a system-wide annual report including information for all permittees?

No
No
N/A

I. Construction Activities

1. Provide the number of construction activities (other than those where the permittee was the operator) that occurred within the regulated area as indicated via notices of intent or construction site notices in this report period.
 No. of non-municipal construction activities: 26
 No. of municipal construction activities greater than or equal to 1 acre: 3
 2. Does the permittee utilize the optional 7th MCM related to Construction? No

Appendix I

Surface Water Monitoring Data

Date:	Sampling Location:	Water Temp (°C)	pH	DO (mg/L)	Conductivity (µS)	Turbidity (NTU)	Total Phosphate (mg/L)	Nitrate (mg/L)	WQI (Based on 5 factors)
01/25/2016	IC1	10.8	8.66	11.1	268	22.5	0.04	0.264	85 - Good
01/25/2016	IC2	11	8.35	9.7	839	7.52	0.04	0.264	89 - Good
01/25/2016	FC1A	10.3	7.93	8.9	602	11.3	0.26	0.352	87 - Good
01/25/2016	FC2	10.8	8.46	12.3	641	4.84	0.08	0.924	89 - Good
01/25/2016	FC3	11.9	8.52	10.6	632	3.35	0	0.88	91 - Excellent
01/25/2016	FC4	12	8.37	8.7	899	9.34	0.06	0.968	87 - Good
01/25/2016	FC5	10.8	8.21	9.9	695	3.9	0.02	4.4	86 - Good
01/27/2016	HB1	9	8.68	11.8	335	26.8	0.14	0.792	84 - Good
01/25/2016	HB2	14.4	8.6	13.7	654	3.6	0.04	1.496	84 - Good
01/25/2016	HB3	12.4	8.14	9.4	542	28.9	0.04	0.528	86 - Good
01/27/2016	HB4A	10.6	7.73	11.6	675	0.71	0.08	4.4	91 - Excellent
01/25/2016	HB5	14.3	8.23	7.3	629	1.06	0.06	0.88	87 - Good
01/25/2016	DB1	10.2	8.13	9.2	396	17	0.12	0.616	86 - Good
01/25/2016	DB2	18.6	8.98	14.3	1121	3.83	0.02	0.44	72 - Good
01/25/2016	DB3	15	8.66	16.4	956	2.71	0.02	0.352	75 - Good
01/27/2016	CB1A	12.9	8.07	10.2	715	1.1	0.14	1.056	94 - Excellent
01/27/2016	CB2	5.8	8.21	11.2	794	1.99	0.14	3.78	87 - Good
01/27/2016	VI1	10.1	7.83	9.5	612	2.29	0.3	3.52	87 - Good

Date:	Sampling Location:	Water Temp (°C)	pH	DO (mg/L)	Conductivity (µS)	Turbidity (NTU)	Total Phosphate (mg/L)	Nitrate (mg/L)	WQI (Based on 5 factors)
06/06/2016	IC1	24.6	8.04	6.9	721	73.6	0.01	3.08	80 - Good

06/06/2016	IC2	23.3	8.13	6.2	744	27.9	0.08	3.08	81 - Good
06/06/2016	FC1A	27.1	8.11	6.5	625	7.46	0.1	0.44	89 - Good
06/06/2016	FC2	26.1	7.89	6.8	467	7.01	0.14	0.264	91 - Excellent
06/07/2016	FC3	26.1	7.11	6.8	678	3.44	0.08	4.4	87 - Good
06/07/2016	FC4	24	7.61	5.6	773	9.94	0.1	3.608	81 - Good
06/07/2016	FC5	22.5	7.88	6.1	733	2.82	0.08	2.99	87 - Good
06/08/2016	HB1	29.6	7.79	6.3	651	16.6	0.1	0.704	86 - Good
06/07/2016	HB2	25.8	8.02	9.2	684	4.35	0.08	2.552	90 - Good/Excellent
06/07/2016	HB3	26.9	7.52	5.5	525	13.8	0.14	0.352	85 - Good
06/07/2016	HB4A	23.6	7.64	6.8	747	0.71	0	4.4	89 - Good
02/07/2016	HB5	23.1	8.03	6.3	692	450	0.26	4.4	69 - Medium
06/06/2016	DB1	27.6	8.88	6.2	348	37.9	0.44	0	73 - Good
06/06/2016	DB2	23.1	7.9	7.7	1104	8.67	0.1	1.14	92 - Excellent
06/06/2016	DB3	24.5	7.92	8.3	969	3.87	0.1	2.2	93 - Excellent
06/08/2016	CB1A	24.4	8.09	8.4	688	2.2	0.42	0.616	89 - Good
06/08/2016	CB2	22.4	7.96	5.7	737	2.7	0.12	1.056	87 - Good
06/08/2016	VI1	28.7	8.13	16.3	743	4.93	0.06	0	78 - Good

Appendix II

Outfalls to be Monitored, Surface Water Monitoring Data and Dry Weather Screening Data

Outfalls to be Monitored for Dry Weather Screening 2015

Indian Creek:	Reason for Selection:	Site Description:
OF 4040	Kohl's shopping center OF	north of Kohl's on southeast side of detention area
OF 4041	Outfall for apartment, residential & commercial (Kroger shopping center)	north east side of the detention area opposite of Kohl's outfall
OF 0309	Commercial outfall	northwest side behind the shopping center at Old Denton and Hebron - north outfall
OF 0308	Commercial outfall	northwest side behind the shopping center at Old Denton and Hebron - south outfall
OF 0428	Commercial outfall	Huffines and W. Hebron - across from the daycare on Huffines
OF 0382	Large residential outfall	end of Legacy at Creekside
OF 0379	Large residential outfall	Creekside - northeast of OF0382
Hutton Branch:	Reason for Selection:	Site Description:
OF 4355	Apartment Complex outfall - right	drainage channel for Trinity Crossing Apts
OF 1296	Apartment Complex outfall - left	drainage channel for Trinity Crossing Apts
OF 1279	Residential outfall	along Kelly North side of the channel where HB4 sample is taken
OF 1281	Residential outfall	along Kelly North side of the channel upstream of OF1279
OF 1443	Residential outfall	west of Wentwood and Old Mill Rd - drains Renwick and Wentwood

Cooks Branch:	Reason for Selection:	Site Description:
OF 1118	drains large residential area	Northeast side of channel at Nix and Fyke
OF 1112	Large residential outfall	Southside of Fyke on Farmers Branch Side

VI Channel:	Reason for Selection:	Site Description:
All outfalls	all industrial/commercial outfalls	entire length of Valwood Improvement Channel – 44 outfalls

Indian Creek:

Surface Water Monitoring

Date:	Location:	Water Temp (°C)	pH	DO (mg/L)	Conductivity (µS)	Turbidity (NTU)	Total Phosphate (mg/L)	Nitrate (mg/L)	Oil Sheen	Trash	Odor	Water Color	WQI
01/20/2014	IC-1	8.8	8.13	12.3	890	7.25	0.04	0.44	no	yes	no	clear/brown	92 - Excellent
07/09/2014	IC-1	30.2	7.82	10.7	319	198	0.66	0.088	no	no	no	cloudy/brown	60 - medium
03/23/2015	IC1	20.4	8.07	10	832	15.7	0.12	1.76	No	no	no	Clear/brown	88 – Good
07/28/2015	IC1	30.9	7.91	5	550	89	0.56	0	no	no	no	cloudy/brown	70 - Medium/Good
01/25/2016	<u>IC1</u>	10.8	8.66	11.1	268	22.5	0.04	0.264	No	No	No	Cloudy/brown	85 - Good
06/06/2016	<u>IC1</u>	24.6	8.04	6.9	721	73.6	0.1	3.08	no	no	no	cloudy/brown	80 - Good

Dry Weather Screening:

Outfalls:	OF4040		OF4041		OF0309		OF0308		OF0428		OF0382		OF0379	
	1st Visit	2nd Visit	1st Visit	2nd Visit	1st Visit	2nd Visit	1st Visit	2nd Visit	1st Visit	2nd Visit	1st Visit	2nd Visit	1st Visit	2nd Visit
Date/Time:	02/08/16 1:50pm	2/9/16 9:57am	2/8/16 1:51pm	2/9/16 9:58am	2/8/16 2:02pm	2/9/16 10:16am	2/8/16 2:00pm	2/9/16 10:26am	2/8/16 2:09pm	2/9/16 10:23am	2/8/16 2:16pm	2/9/16 10:32am	2/8/16 2:19pm	2/9/16 10:34am
Flow	too low	Low	No	No	No	No	No	No	No	No	No	No	No	No
pH (ppm)		7.85												
Conductivity (µS)		>1990												

Outfalls:	OF14355		OF1296		OF1279		OF1281		OF1443	
	1st Visit	2nd Visit	1st Visit	2nd Visit	1st Visit	2nd Visit	1st Visit	2nd Visit	1st Visit	2nd Visit
Date/Time:	6/20/2016 12:10pm	6/20/2016 4:40pm	6/20/2016 12:10pm	6/20/2016 4:40pm	6/20/2016 12:30pm	6/20/2016 5:08pm	6/20/2016 12:30pm	6/20/2016 5:08pm	6/20/2016 11:45am	6/20/2016 3:53pm
Flow	None	None	Low	Low	None	None	None	None	Low	Low
pH			7.83	7.82					7.85	7.85
Conductivity (µS)			595	605					796	835
Detergent (ppm)			0	0					0	0
Ammonia Nitrogen (ppm)			0	0					0	0
Water Temp (°F)			27.7	28.2					26.4	26.3
Turbidity (NTU)			5.88	7.66					1.01	0.5
Chlorine (ppm)			0	0					0	0
Color			Clear	Clear					Clear	Clear
Odor			No	No					No	No
Sewage			No	No					No	No
Surface Scum			No	No					No	No
Trash			No	No					No	No
Oil Sheen			No	No					No	No

Cooks Branch:

Surface Water Monitoring

Date	Location	Water Temp (°C)	pH	DO (mg/L)	Conductivity (mS)	Turbidity (NTU)	Total Phosphate (mg/L)	Nitrate (mg/L)	Oil Sheen	Trash	Odor	Water Color	WQI
01/20/2014	CB-1	19.6	9.12	9.6	497	1.53	0.3	0	no	Yes	no	clear	84 - Good
07/14/2014	CB-1	37.5	10.13	8	489	2.08	0.1	0	no	Yes	no	clear	78 - Good
03/24/2015	CB-1	26.7	10.06	12.4	373	1.97	0.12	0	No	yes	no	clear	66-Medium
New Outfall Location													
07/27/2015	CB1A	29.6	8.64	13.4	626	1.74	0.18	0.616	No	No	No	Clear	74 - Good
01/27/2016	CB1A	12.9	8.07	10.2	715	1.1	0.14	1.056	No	No	No	Clear	94- Good
06/18/2016	CB1A	24.4	8.09	8.4	688	2.2	0.42	0.616	No	No	No	Clear	89 - Good

Dry Weather Screening

Outfalls:	OF1118		OF1112	
	1st Visit	2nd Visit	1st Visit	2nd Visit
Date/Time:	3/15/2016 11:38am	3/16/2016 10:12am	3/15/2016 11:54am	3/16/2016 9:55am
Flow	Medium	Low	Low	Low
pH	8.09	8.14	8.41	8.22
Conductivity (µS)	951	968	1003	1062
Detergent (ppm)	0	0	0	0
Ammonia Nitrogen (ppm)	0	0	0	0

Water Temp (°F)	18.7	17.1	18.7	17
Turbidity (NTU)	0.75	0.5	0.83	0.78
Chlorine (ppm)	0	0	0	0
Color	Clear	Clear	Clear	Clear
Odor	No	No	No	No
Sewage	No	No	No	No
Surface Scum	No	No	No	No
Trash	No	No	No	No
Oil Sheen	No	No	No	No

Outfalls:	OF1118		OF1112	
	1st Visit	2nd Visit	1st Visit	2nd Visit
Date/Time:	6/21/2016 10:36am	6/21/2016 3:05pm	6/21/2016 10:24am	6/21/2016 2:50pm
Flow	Low	Low	Low	Low
pH	8.05	7.91	8.07	8.03
Conductivity (µS)	918	912	1161	1230
Detergent (ppm)	0	0	0	0
Ammonia Nitrogen (ppm)	0	0	0	0
Water Temp (°F)	25.3	25.1	26.2	27.3

Turbidity (NTU)	0.45	0.32	0.58	0.76
Chlorine (ppm)	0	0	0	0
Color	Clear	Clear	Clear	Clear
Odor	No	No	No	No
Sewage	No	No	No	No
Surface Scum	No	No	No	No
Trash	No	No	No	No
Oil Sheen	No	No	No	No

Valwood Improvement:

Surface Water Monitoring

01/20/2014	VI-1	19.8	10.66	26.4	567	2.74	0.1	0	no	yes	no	clear/green	65 - Medium
07/14/2014	VI-1	35.5	9.71	17.3	660	5.4	0.24	0	no	Yes	no	Clear/green	65 - Medium
03/24/2015	VI-1	23.4	9.04	19.4	825	17.8	0.68	0.352	No	Yes	No	Clear/green	69 - Medium
07/27/2015	VI-1	37.2	8.71	14.4	690	3.66	0.1	0	No	No	No	Clear	74 - Good
01/27/2016	VI-1	10.1	7.83	9.5	612	2.29	0.3	3.52	No	No	No	Clear	87 - Good
06/08/2016	VI-1	28.7	8.13	16.3	743	4.93	0.06	0	No	No	No	Clear	78 - Good

Dry Weather Screening:

Outfalls:	OF1096		OF4150		OF4152		OF1407		OF1456	
	1st Visit	2nd Visit	1st Visit	2nd Visit	1st Visit	2nd Visit	1st Visit	2nd Visit	1st Visit	2nd Visit
Date/Time:	6/21/2016 11:00am	6/21/2016 3:25pm	6/21/2016 11:00am	6/21/2016 3:25pm	6/21/2016 11:03am	6/21/2016 3:30pm	6/21/2016 11:03am	6/21/2016 3:31pm	6/21/2016 11:03am	6/21/2016 3:30pm
Flow	None	None	None	None	None	None	None	None	None	None

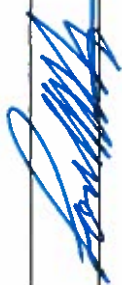
1091	1057							
0	0							
0	0							
29.8	28.8							
3.71	2.9							
0	0							
Clear	Clear							
No	No							
No	No							
No	No							
Yes	Yes							
No	No							

J. 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 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Name (printed): _____ Leonard Martin _____ Title: _____ City Manager, City of Carrollton _____

Signature: _____  _____ Date: _____ 12-27-16 _____

