TPDES General Permit TXR040000 Authorization Number TXR040039 Level 2 MS4

City of Hurst, Texas Storm Water Management Program

Permit Term 2019 - 2023

Authorization Number TXR040039 1505 Precinct Line Road Hurst, Texas 76054 www.hursttx.gov



STORMWATER MANAGEMENT PROGRAM (SWMP) COVER SHEET

This cover sheet MUST be attached to the front of the SWMP.

Operator

Operator name: <u>City of Hurst, Texas</u>

Required Program Elements

The SWMP needs to include:

- BMPs and measurable goals that are clear, specific, and measurable,
- Annual Reporting Year selected, and
- Estimated population served by the MS4.

Legal Authorities

Include in the SWMP the list of local legal authorities (i.e., ordinance, rule) that the MS4 has adopted to implement any of the MCMs. List all and what MCM they each cover.

Minimum Control Measures

For each MCM, complete the table by entering the page number where the required element can be found in the SWMP

MCM 1: Public Education, Outreach, and Involvement

Table 1: Required Elements for MCM 1

MCM 1 Required Elements	SWMP page number
SWMP includes a stormwater education and outreach program to educate public employees, business, and the general public about hazards associated with the illegal discharges and improper disposal of waste and about the impacts stormwater can have on water quality, and steps they can take to reduce pollutants in stormwater	Pgs 13-15: 1.1, 1.3, 1.4, 1.5
Clearly define the goals and objectives of the program based on high- priority community-wide issues	Ref Apdx C
Identify the target audiences	Pgs 13-16
Develop or use appropriate educational material	Pg 13- 1.1
Procedures to distribute educational material	Pgs 13-16: 1.3, 1.4, 1.5, 1.7, 1.8
Make the educational material available to the target audience at least annually	Pg 14: 1.3
Post the SWMP and annual reports on the MS4's website, if the MS4 has a website	Pg 14: 1.4

MCM 1 Required Elements	SWMP page number
Include the MS4's website address where the SWMP and annual reports will be found, if the MS4 has a website	Pg 14: 1.4
SWMP includes a program that complies with state and local public notice requirements	Pg 16: 1.8
Include public input in the implementation of the program	Pg 16: 1.8
Include opportunities for citizen to participate in implementation of control measures	Pg 15: 1.6, 1.7
Ensure the public can easily can find information about the SWMP.	Pg 14: 1.4
SWMP lists Best Management Practices (BMPs) used to fulfill this MCM. Examples of possible BMPs could be stream-clean-ups, storm drain stenciling, volunteer water quality monitoring, brochures, billboards, and websites.	Pgs 13-16: 1.3, 1.4, 1.5, 1.7, 1.8
SWMP includes measurable goals that are clear, specific, and measurable, and the method of measurement, for addressing stormwater quality	Ref Apdx C
SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from the general permit issuance date of January 24, 2019	Ref Apdx C

MCM 2: Illicit Discharge Detection and Elimination

Table 2: Required Elements for MCM 2

MCM 2 Required Elements	SWMP page number
Description of the program that will be used to detect, investigate and eliminate illicit discharges. The program includes a plan to detect and address illicit discharges, including illegal dumping to the MS4 system.	Pgs 18-24
MS4 map: The map includes:	Ref Apdx E
 Location of all small MS4 outfalls operated by the MS4 and that discharge into waters of the U.S.; Location and name of all surface waters receiving discharge from the MS4s outfalls; For Level 3 and 4 small MS4s: Location of MS4 owned or operated facilities and stormwater controls; and For Level 4 small MS4s: Location of priority areas. 	
Methods for informing and training MS4 field staff	Ref Pg 18: 2.2 & Pg 21: 2.9
Procedures for tracing the source of an illicit discharge	Ref Pg 18: 2.1, 2.2; Pg 19: 2.4 & Ref Pg 21: 2.10

MCM 2 Required Elements	SWMP page number
Procedures for removing the source of the illicit discharge	Ref pg 19: 2.3 & Pg 21: 2.10
Procedures to facilitate public reporting of illicit discharges or water quality impacts associated with discharges into or from the small MS4	Pg 20: 2.5
Procedures for responding to illicit discharges and spills	Pg 21:2.10
Procedures for inspections in response to complaints	Pg 19: 2.4
For Level 2, 3, and 4 small MS4: Procedures to prevent and correct leaking on-site sewage disposal systems	Pg 18: 2.2 & Pg 19 2.4
For Level 3 and 4 small MS4s: Procedures for follow-up investigation to verify that the illicit discharge has been eliminated	NA
For Level 4 small MS4s: Procedures for identifying and creating a list of priority areas within the small MS4s likely to have illicit discharges	NA
For Level 4 small MS4s: Procedures for a dry weather field screening program to assist in detecting and eliminating illicit discharges to the small MS4. Dry weather field screening consists of (1) field observations and (2) field screening.	NA
For Level 4 small MS4s: Procedures to reduce the discharge of floatables in the small MS4	NA
SWMP lists BMPs used to fulfill this MCM. Examples of possible BMPs could be hazardous materials disposal opportunities, inspections of the storm sewer system, and dye testing.	Ref Pgs 18-21
SWMP includes measurable goals that are clear, specific, and measurable, and the method of measurement, for addressing stormwater quality	Ref Apdx C
SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from the general permit issuance date of January 24, 2019	Ref Apdx C

MCM 3: Construction Site Stormwater Runoff Control

Table 3: Required Elements for MCM 3

MCM 3 Required Elements	SWMP page number
Program requires operators of construction sites one acre and greater (including larger common plan) to select, install, implement, and maintain stormwater control measures	Pg 22: 3.1 and Pg 23: 3.3
Description of ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under state and local law	Pg 22: 3.1 and Pg 23: 3.3

MCM 3 Required Elements	SWMP page number
Program requires construction site operators to implement BMPs for erosion and sediment control	Pg 22: 3.1 and Pg 23: 3.3
Program requires construction site operators to have procedures for initiating and completing soil stabilization measures	Pg 23: 3.3
Program requires construction site operators to implement BMPs to control pollutants from equipment and vehicle washing and other wash waters	Pg 22: 3.1
Program requires construction site operators to implement BMPs to minimize exposure to stormwater of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials	Pg 22: 3.1
Program requires construction site operators to implement BMPs to minimize the discharge of pollutants from spills and leaks.	Pg 22: 3.1
Program ensures that the construction site has developed a stormwater pollution prevention plan in accordance with the TPDES Construction General Permit TXR150000	Pg 22: 3.1
Program prohibits illicit discharges such as wash out wastewater, fuels, oils, soaps, solvents, and dewatering activities	Pg 22: 3.1
Procedures for construction site plan review to consider water quality impacts	Pg 23: 3.3
Procedures for construction site inspections and enforcement of control measures, to the extent allowable under state and local law	Pg 22: 3.1
Procedures for receipt and consideration of information submitted by the public	Pg 15: 1.7
Procedures for MS4 staff training	Pg 23: 3.3
For Level 3, and 4 small MS4s: Procedures to develop and maintain an inventory of all permitted active public and private construction sites greater than one acre (and sites that are less than one acre if part of larger common plan of development or sale)	NA
SWMP lists BMPs used to fulfill this MCM. Examples may include: notification to discharger of responsibilities under TPDES CGP; hire staff to review construction site plans; provide a web page for public input on construction activities; perform site inspections and enforcement; provide education and training for construction site operators; and mechanism to prohibit discharges into MS4 where necessary.	Pg 22-23: 3.1 - 3.3
SWMP includes measurable goals that are clear, specific, and measurable, and the method of measurement, for addressing stormwater quality	Ref Apdx C

MCM 3 Required Elements	SWMP page number
SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from the general permit issuance date of January 24, 2019	Ref Apdx C

MCM 4: Post Construction Stormwater Management in New Development and Redevelopment

Table 4: Required Elements for MCM 4

MCM 4 Required Elements	SWMP
	page number
Description of a program that will be developed, implemented and enforced, to control stormwater discharges from private and public new development and redeveloped sites that discharge into the small MS4 that disturb one acre or more (and sites that disturb less than one acre that are part of a larger common plan of development or sale)	Ref Pgs 23- 25: 4.1 -4.4
Description of ordinance or other regulatory mechanism that is in place or planned which will regulate discharges from new development and redevelopment projects	Pg 24: 4.1
Establish, implement, and enforce a requirement that owners or operators of new development and redeveloped sites design, install, implement, and maintain a combination of structural and non-structural BMPs appropriate for the community and that protects water quality	Pg 24: 4.1
Procedures to document and maintain records of enforcement actions	Pg 24: 4.3
Procedures to ensure long-term operation and maintenance of post construction stormwater control measures	Pg 24: 4.1 and Pg 25: 4.4
Operation and maintenance of post construction stormwater control measures is documented	Pg 24: 4.3
For Level 4 small MS4s: Develop and implement an inspection program to ensure that all post construction stormwater control measures are operating correctly and are being maintained. Inspections must be documented	NA
SWMP lists BMPs used to fulfill this MCM. Examples may include: local ordinance in place or planned; guidance document for developers to use; specific BMPs established for particular watersheds; list of appropriate BMPs provided to operators; elimination of curbs and gutters; incentives for use of permeable choices, such as porous pavement; requirements for wet ponds or other BMPs for certain size sites; and xeriscaping.	Pgs 24-25: 4.1-4.4
SWMP includes measurable goals that are clear, specific, and measurable, and the method of measurement, for addressing stormwater quality	Ref Apdx C

MCM 4 Required Elements	SWMP page number
SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from the general permit issuance date of January 24, 2019	Ref Apdx C

MCM 5: Pollution Prevention and Good Housekeeping for Municipal Operations

Table 5: Required Elements for MCM 5

MCM 5 Required Elements	SWMP
	page number
Description of an operation and maintenance (O&M) program, including an employee training component, to reduce/prevent pollution from municipal activities and municipally owned areas included but not limited to park and open space maintenance; street, road, or highway maintenance; fleet and building maintenance; stormwater system maintenance; new construction and land disturbances; municipal parking lots; vehicle and equipment maintenance and storage yards; waste transfer stations; and salt/sand storage locations	Pgs 26-29: 5.1 - 5.11
Develop and maintain an inventory of facilities and stormwater controls that are owned or operated by the MS4	Pg 29: 5.10
Procedures to inform or train staff involved in implementing pollution prevention and good housekeeping practices. Maintain training attendance records	Pg 26: 5.1 and 5.2
Procedures to remove and properly dispose of waste from the MS4	Pg 28: 5.7
Contractors hired by the MS4 must be required to comply with operating procedures. Develop contractor oversight procedures	Pg 28: 5.7
Evaluate O&M activities for their potential to discharge pollutants in stormwater for road and parking lot maintenance, bridge maintenance, cold weather operations, right-of-way maintenance, etc.	Pg 28: 5.7
Identify pollutants of concern that could be discharged from the O&M activities	Pg 28: 5.7
Develop and implement pollution prevention measures that will reduce discharge of pollutants from O&M activities	Pg 28: 5.7
Conduct inspections of pollution prevention measures and maintain inspection log	Pg 29: 5.11
Procedures for inspecting and maintaining structural controls	Pg 29: 5.11
For Level 3 and 4 small MS4s: Develop and implement an O&M program to reduce the collection of pollutants in catch basins and other surface structures in the storm sewer system	NA

MCM 5 Required Elements	SWMP page number
For Level 3 and 4 small MS4s: Develop a list of potential problem areas in the storm sewer system for increased inspection (for example, areas with recurring illegal dumping)	NA
For Level 3 and 4 small MS4s: Implement an O&M program to reduce discharge of pollutants from roads that includes at least a street sweeping and cleaning program, or inlet protection. The program includes an implementation schedule and a waste disposal procedure	NA
For Level 3 and 4 small MS4s: Assess its facilities for their potential to discharge pollutants into stormwater and identify high priority facilities that have a high potential to generate stormwater pollutants. At a minimum, facilities include the MS4s maintenance yards, hazardous waste facilities, fuel storage locations, and any other facilities at which chemicals or other materials have a high potential to be discharged in stormwater. Document the results of the assessments	NA
For Level 3 and 4 small MS4s: Develop facility specific stormwater management Standard Operation Procedures for high priority facilities	NA
For Level 3 and 4 small MS4s: MS4 implements stormwater controls at high priority facilities that address good housekeeping; de-icing and anticing storage; fueling operations and vehicle maintenance; equipment and vehicle washing	NA
For Level 3 and 4 small MS4s: Develop and implement an inspection program that includes high priority facilities	NA
For Level 4 small MS4s: Develop an application and management program for pesticides, herbicides, and fertilizers used at public open spaces. Implement the following: educational activities, permits, etc for applicators and distributors; encourage of non-chemical solutions for pest management; develop schedules that minimizes discharge of pollutants; ensure collection and proper disposal of unused pesticides, herbicides, and fertilizers	NA
For Level 4 small MS4s: Evaluate flood control projects. Design, construct, and maintain new flood control structures to provide erosion prevention and pollutant removal from stormwater. Retrofitting of existing structural flood control devices is implemented to the maximum extent practicable (MEP)	NA
SWMP lists BMPs used to fulfill this MCM. Examples may include: BMPs which address fleet vehicle maintenance/washing; BMPs which address parking lot and street cleaning; catch basin and storm drain system cleaning; landscaping and lawn care (e.g. xeriscaping); waste materials management; road salt application and storage practices; used oil recycling; pest management practices; fire training facilities; BMPs which address roadway and bridge maintenance; golf course maintenance/waste disposal; disposal of cigarette butts; and park maintenance (e.g., providing	Pgs 26-29: 5.1- 5.11

MCM 5 Required Elements	SWMP page number
trash bags).	
SWMP includes measurable goals that are clear, specific, and measurable, and the method of measurement, for addressing stormwater quality	Ref Apdx C
SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from the general permit issuance date of January 24, 2019	Ref Apdx C

MCM 6: Industrial Stormwater Sources

Table 6: Required Elements for MCM 6

MCM 6 Required Elements	SWMP page
	number
For Level 4 MS4 only: Identify and control industrial stormwater sources that at least includes the MS4's landfills; other treatment, storage, or disposal facilities for municipal waste; hazardous waste treatment, storage, disposal and recovery facilities; and facilities that are subject to Emergency Planning and Community Right-to-Know Act (EPCRA).	NA
For Level 4 MS4 only: Procedures for inspecting and implementing control measures for discharges from industrial stormwater sources.	NA

Optional MCM 7: Municipal Construction Activities

This MCM is only applicable where the small MS4 has selected to be the construction site operator for their municipal construction activities. This MCM provides an alternative to the MS4 operator seeking discharge authorization under the Construction Stormwater General Permit TXR150000.

Table 7: Required Elements for MCM 7

MCM 7 Required Elements	SWMP page number
Description of how municipal construction activities will be conducted so as to take into consideration local conditions of weather, soils, and other site specific considerations	Not Selected
Description of the area that this MCM will address and where the MS4 operator's municipal construction activities are covered (e.g. within the boundary of the urbanized area, the corporate boundary, a special district boundary, an extra territorial jurisdiction, or other similar jurisdictional boundary)	Not Selected
If the area included in this MCM includes areas outside of the UA, then all MCMs (MCM 1 through MCM 7) will be implemented over those additional areas as well	Not Selected

MCM 7 Required Elements	SWMP page number
Description of how contractor activities will be supervised or overseen to ensure that the Stormwater Pollution Prevention Plan (SWP3) requirements are properly implemented at the construction site(s); or how the MS4 operator will make certain that contractors have a separate authorization for stormwater discharges if needed	Not Selected
General description of how a construction SWP3 will be developed for each municipal construction site	Not Selected
Records of municipal construction activities authorized under this optional MCM	Not Selected



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Appendix

- A. Notice of Intent (NOI)
- B. TCEQ Core Data Form
- C. Measurable Goals And Actions for BMPs
- D. Urbanized Area Map
- E. Map identifying City of Hurst Outfalls
- F. Permit Fee Payment Voucher



Program Implementation

Federal and State Regulations

In 1972, the United States Congress enacted the Clean Water Act (CWA). The purpose of the legislation was to protect the nation's waters. The CWA directs the U.S. Environmental Protection Agency (EPA) to issue rules on how to implement this law. In Texas, the authority to administer the National Pollutant Discharge Elimination System (NPDES) permit program is given to the Texas Commission on Environmental Quality (TCEQ). The program is named the Texas Pollutant Discharge Elimination Program (TPDES).

Throughout the United States, anyone discharging a pollutant from a municipal wastewater or industrial point source had to obtain a NPDES permit. NPDES permits for point sources specified effluent limits, required monitoring and enforcement mechanisms. CWA also addresses pollution from diffuse, non-point sources. The EPA defines non-point source pollution as "any pollution associated with diffuse land use activities that cumulatively results in water quality degradation." Non-point source pollution was addressed in two phases. Phase I of the NPDES regulations required all municipalities with populations over 100,000 to classify their storm water runoff and develop programs to reduce the pollutants in their runoff. Phase II NPDES permits followed for communities with populations of less than 100,000.

Clean Water Act – NPDES Permits	
Point Source Pollution	Industrial and Municipal Wastewater Outfalls
Non-Point Source	MEDIUM & LARGE Municipal Separate Storm Sewer Systems serving
Phase I	populations of 100,000 and greater.
Non-Point Source	SMALL Municipal Separate Storm Sewer Systems MS4s serving populations
Phase II	of less than 100,000 in Urbanized Areas

A Municipal Separate Storm Sewer System (MS4) is a conveyance that includes roads with drainage systems, municipal streets, catch basins, curbs, gutters ditches, man-made channels, or storm drains that are owned and operated by a jurisdiction for the collection and conveyance of storm water. Non-traditional MS4s that may also be regulated include districts, counties, transportation entities, prisons and universities.

The City of Hurst is classified a Small MS4 (Municipal Separate Storm Sewer System), therefore the City must comply with the Texas General Permit TXR040000. The General Permit is issued for five (5) years. When the permit expires a new permit is issued by TCEQ that *completely replaces the previous permit*. When the General Permit is reissued, all MS4s must comply by submitting a Notice of Intent (NOI) and a Storm Water Management Program (SWMP) within 180 days. There is no lapse in coverage.

City of Hurst Storm Water Management Program

In accordance with Federal and State regulations, the Hurst City Council adopted a Storm Water Management Program on January 22, 2008 (Resolution No. 1441) and submitted a NOI and SWMP to the TECQ in February of 2008.

To comply with the General Permit issued by the TCEQ the City of Hurst was to undertake actions to:

- Reduce the Discharge of Pollutants to the Maximum Extent Practicable (MEP);
- Protect Water Quality;
- Satisfy the appropriate water quality requirements of the Clean Water Act; and
- Manage storm water quality activities through the Storm Water Management Program (SWMP).

Annual Reports were subsequently submitted to and approved by TCEQ in accordance with the General Permit requirements.

8/13/2007	TCEQ Issues (1st) Small Municipal Separate Storm Sewer (MS4)Permit Coverage 2007 to 2012
12/5/2008	City of Hurst SWMP approved by TCEQ
2008 to 2012	Implementation of the City of Hurst SWMP. Reports submitted annually to TCEQ.
2013	Sixth year of General Permit that expired 8/13/2012 but it was extended pending negotiations between TCEQ and EPA.

Unexpected Sixth Year of the General Permit (2013)

In 2012, there was a delay by the State of Texas in issuing the new revised General Permit. Thus there was a "sixth year" of implementation not originally addressed in the City's SWMP. The General Permit initially set to expire in August of 2012 was extended pending approval of a new General Permit. TCEQ extended the General Permit coverage while discussions continued between Stakeholders throughout the State of Texas, TCEQ and EPA.

During that time City of Hurst continued to implement applicable Best Management Practices outlined in the adopted 2008 SWMP. An annual report was submitted to TCEQ outlining project achievements for the sixth year.

Revised General Permit Issued by TCEQ December 13, 2013

On December 13, 2013, the TCEQ issued a revised General Permit. The revised General Permit superseded and replaced the previous permit issued in 2007. The General Permit carried an effective period of five years until December 12, 2018.

Annual Reports were subsequently submitted to and approved by TCEQ in accordance with the General Permit

12/13/2013	TCEQ Issues (2nd) Small Municipal Separate Storm Sewer (MS4)Permit Coverage 2013 to 2018
5/26/2015	City of Hurst 2 nd SWMP approved by TCEQ
2013 to	Implementation of the City of Hurst SWMP. Reports submitted annually to TCEQ.
2018	

New Revised General Permit Issued by TCEQ January 24, 2019

On January 24, 2019, the TCEQ again issued a revised General Permit. This General Permit supersedes and replaces the previous permit issued in 2013. The General Permit will remain effective for a period of five years until January 23, 2024.

		110814111
01/24/2019	TCEQ Issued (3rf ^d) General Permit	
	Coverage begins January 24, 2019 continues	until January 24, 2024
01/24/2019	Grace Period to revise SWMP begins	
<i>to</i> 7/23/2019	NOI and SWMP must be submitted to TCEQ within 180 days in order to obtain coverage under the General Permit.	
12/13/18	Operate under current SWMP (2013) until TCEQ approves new plan.	
to		
Date TBD*	*Date when TCEQ approves REVISED SWMP for City of Hurst	
	First Year Annual Report due to TCEQ	
3/31/2020	1st year report will report on SWMP from 01/01/2019 to 12/31/19	
Report due even if revised SWMP has not yet been approved by TCEQ.		been approved by TCEQ.
	Implementation of SWMP	
01/24/2019	Annual Reports to TCEQ:	
to	2 nd year (2020) annual report due	March 31, 2021
01/23/2024	3 rd year (2021) annual report due	March 31, 2022
01/23/2024	4 th year (2022) annual report due	March 31, 2023
	5 th year (2023) annual report due	March 31, 2024

SWMP Review and Revision

The General Permit issued and effective as of January 24, 2019 requires a Storm Water Management Program (SWMP). The City of Hurst must review its adopted SWMP and make revisions that take into account the following:

- Any Applicable Minimum Control Measures that have changed (the MCM categories applicable to the City of Hurst have not changed).
- The General Permit outlines requirements for communities based on population size (Urban Area). The City of Hurst is a Level 2 Community based on the 2010 Census figures.
- 13 TMDL for the Lower West Fork Trinity River (segment ID 0841 was adopted on September 24, 3013
- An Implementation Plan for the Greater Trinity River was approved December 11, 2013 and provides guidance on how to meet the TMDL.
- Draft 2018 Texas Integrated Report Texas 303(d) List (Category 5) lists Trinity River segment 0841 (Johnson Creek to Village Creek) as suffering impairment by dioxin and PCB's in edible tissue.

Review and Revision of 2014-2018 BMPs

On page 4 of this SWMP is a BMP comparison table. It compares the 2014 BMPs with the 2019 BMPs. The table indicates if BMPs are new, modified, or deleted. In some cases the title was changed moderately but the content of the BMP remains basically unchanged.

	Program
Comparison Table for Best Managemen	t Practices 20014-2018 versus 2019-2023
Dec 13, 2013 to 2018	January 24, 2019 to 2023
MCM #1 Public Education, Outreach And Involvement	MCM #1 Public, Education, Outreach & Involvement
1.1 NCTCOG Storm Water Public Education Task Force Participant	1.1 NCTCOG Storm Water Public Education Task Force Participant
1.2 NCTCOG Cooperative Purchase and Outreach	1.2 NCTCOG Cooperative Purchase and Outreach
1.3 Utility Bill Inserts	1.3 Utility Bill Inserts
1.4 City Website page with Educational information and resources	1.4 Educational City Website Information and resources for all ages
for all ages	1.5 Storm Drain Markings
1.5 Storm Drain Markings	1.6 Adopt a Park (Modified)
1.6 Adopt a SPOT in Hurst	1.7 Storm Drainage Information Hotline
1.7 Storm Water Hotline	1.8 Annual Stormwater Management Program Presentation at City
1.8 Yearly presentation to City Council	Council Meeting
MCM#2 Illicit Discharge Detection & Elimination	MCM #2 Illicit Discharge Detection & Elimination
2.1 Storm Drain System Mapping	2.1 Storm Drain System Mapping
2.2 Dry Weather Screening	2.2 Dry Weather Screening
2.3 Illicit Discharge Ordinance	2.3 Illicit Discharge Detection and Elimination Ordinance
2.4 Illicit Discharge Investigations	2.4 Illicit Discharge Investigations
2.5 Reduce Illegal Dumping	2.5 Reduce Illegal Dumping
2.6 Reduce Sanitary Sewer Overflows	2.6 Reduce Sanitary Sewer Overflows
2.7 Pet Waste Reduction (pet waste stations)	2.7 Pet Waste Reduction (pet waste stations)
2.8 Household Hazardous Waste Disposal	2.8 Household Hazardous Waste Disposal
2.9 NCTCOG, IDDE Task Force	2.9 NCTCOG IDDE Task Force
2.10 On-site procedures for responding to illicit discharges & spills	2.10 On-site procedures for responding to illicit discharges & spills
MCM #3 Construction Site Storm Water Runoff Control	MCM#3 Construction Site Storm Water Runoff Control
3.1 Erosion Control Site Plan Review	3.1 Erosion Control Site Plan Review
3.2 Pre-Construction Meeting Discussion	3.2 Pre-Construction Meeting Discussion
3.3 Implement iSWM (Adopted October 2012)	3.3 Implement iSWM for Construction Storm Water Management
MCM #4 Post-Construction Storm Water Management MCM#4 Post-Construction Storm Water Management	
in Areas of New Development and Redevelopment	in New Development and Redevelopment
4.1 Implement iSWM (Adopted October 2012)	4.1 Implement iSWM for Post-Construction Storm Water Management
4.2 Channel/Inlet Maintenance & Inspection	4.2 Channel/Inlet Maintenance & Inspection
4.3 Document & Maintain Records of Enforcement Actions	4.3 Document & Maintain Records of Enforcement Actions
4.4 Long-Term Maintenance Program	4.4 Long-Term Maintenance Program
MCM #5 Pollution Prevention / Good Housekeeping	MCM#5 Pollution Prevention and Good Housekeeping
for Municipal Operations	in Municipal Operations
5.1 NCTCOG Pollution Prevention Training	5.1 NCTCOG Pollution Prevention Training
5.2 NCTCOG Pollution Prevention Task Force	5.2 Pollution Prevention Task Force
5.3 Roadway Cleaning	5.3 Roadway Cleaning
5.4 Vehicle Maintenance	5.4 Vehicle Maintenance
5.5 Vehicle Washing	5.5 Vehicle Washing
5.6 Vehicle Fueling	5.6 Vehicle Fueling
5.7 Materials Storage Controls	5.7 Develop Pollution Prevention Practices for City Operations and
5.8 Purchase/Use De-chlorination Equipment	Maintenance Activities
5.9 Licensed Applicators Pesticides/Fertilizers	5.8 Purchase/Use De-chlorination Equipment
5.10 Inventory of facilities& SW Controls owned/operated by the City	5.9 Licensed Applicators Pesticides/Fertilizers
5.11 Structural Control Maintenance	5.10 Inventory facilities & SW Controls owned/operated by the City
MCM#6 Industrial Storm Water Sources	5.11 Inspection and Maintenance of City owned Structural Controls MCM#6 Industrial Storm Water Sources
City of Hurst is a Level 2 small MS4. N/A	City of Hurst is a Level 2 small MS4. N/A
MCM#7 Authorization for Municipal Construction Activities (Optional,	MCM #7 Authorization for Municipal Construction
not developed)	Activities (Optional, not developed at this time)
	I ' '

Legal Authority to Implement Best Management Practices

Adequate regulatory mechanisms as well as voluntary participation in regional programs and initiatives with TCEQ and NCTCOG provide a layered approach to the management of storm water in the City of Hurst.

The City Council approved the creation of a Storm Drainage Utility in 2009 to provide maintenance and improvements to the City's storm water drainage system, mitigating flooding hazards. The rate for residents is \$4.00 a month per water meter or \$1.93 a month per apartment. For commercial properties, the rate is \$1.19 per 1,000 square feet of impervious area.

In October of 2012 the North Central Texas Council of Governments (NCTCOG) integrated Storm Water Management (iSWM) Criteria Manual for Site Development and Construction was adopted with local amendment by the City of Hurst to address storm water management during and post construction. The purpose of iSWM is to provide comprehensive design criteria that can be used for drainage design and to establish criteria for storm water management during construction and post construction.

The City of Hurst participates in the National Flood Insurance Program (NFIP) and the Community Rating System (CRS). The City requires a Floodplain Permit for development in areas identified on the NFIP maps as floodplain and has adopted a floodplain ordinance. The CRS is a voluntary program for NFIP participating communities. The goals of CRS are to reduce flood damages to insurable property, strengthen and support the insurance aspects of the NFIP, and encourage a comprehensive approach to floodplain management. The lower the rating of a community from 1 to 10, the greater the subsidy onflood insurance rates to Hurst citizens. The City of Hurst currently holds a CRS rating of 8.

The City of Hurst adopted an Illicit Discharge Detection and Elimination (IDDE) Ordinance in January 2016 in accordance with the requirements of the issued General Permit. The City the IDDE ordinance strengthened and clarified existing ordinances to prohibit illicit discharges and illegal connections to the MS4, and established sanctions to ensure compliance to the extent allowable under State and local law. The IDDE ordinance established effective detection methodologies and enforcement procedures.

City of Hurst Demographics and Land Use

Hurst Area Description and Urbanized Area Boundaries

The Bureau of Census defines urbanized areas as "...a land area comprising one or more places – central place(s) – and the adjacent densely settled surrounding area – urban fringe – that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile". A figure depicting the urbanized area for Hurst, Texas and the surrounding areas is provided in Appendix D.

There are currently no additional land areas available for annexation to the City of Hurst. Per the 2010 Census the City of Hurst has a population of 37,337. This is up only 2.88% from the 2000 Census population of 36,293.

City of Hurst Demographics& Land Use

The City grew from a total population of 2,700 in 1952 to just over 30,000 in 1981. The existing zoning map shows that a large part of the City is developed as single-family homes. Commercial, Industrial and, and Office uses are adjacent to major thoroughfares and interstates. Additional Demographic and Land Use information can be found online at the Hurst Economic Development website found here: www.hursted.com and at the City of Hurst website found here: www.hursttx.gov.

City of Hurst Parks and Streams

The City of Hurst has over twenty parks located throughout the City. In an Urban Area such as Hurst, the local parks are one of the main ways citizens come into contact with waterways both visually and physically. Some parks have been developed and others have not. Water features play a prominent role in many of the parks:

- Chisholm Park has a pond that is stocked yearly by the Texas Parks & Wildlife Department (TPWD) Inland Fisheries Division. The pond is part of the Neighborhood Fishin' program that provides a quality local fishing experience in urban areas.
- Mayfair Park is an 8.3 acre park along Valley View Branch creek and is undeveloped.
- Central Park has a walking path that runs along the Lorean Branch creek.
- Hurst Athletic Complex has several bridge crossings over low water swales on Lorean Branch creek that meander through the park.
- Rickel Park is a 29 acre passive park that has a bridge over Sulphur Branch creek.
- Billy Creek Park is located along Calloway Branch creek.

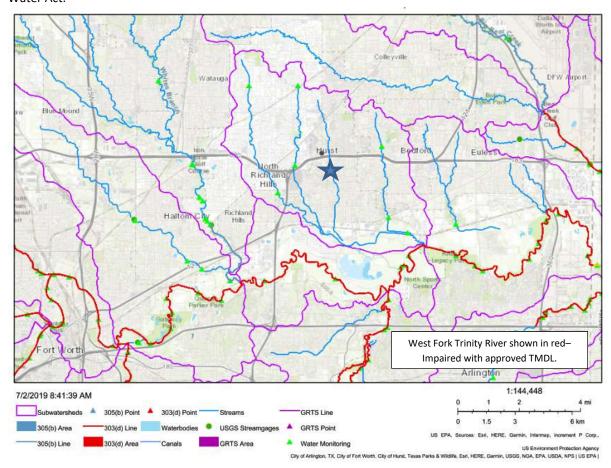
The location of streams and waterways varies throughout the City based on when a property was developed. More recent development required dedication of waterways in easements or platted open space. Many lots that were developed in earlier decades do not designate the waterways or riparian areas as easements and they remain part of individually owned private property.

The location of various water bodies, and adjacent land ownership information is valuable information that can be obtained using the City's Geographic Information System (GIS). Public Education and Outreach efforts consider *ownership* as well as land *use* when implementing BMPs so that the specific needs & attitudes of Hurst residents are respected and BMPs are meaningful to the entire community.

Lower West Fork Trinity Watershed

EPA Water Program Data Map of Hurst in relation to West Fork Trinity River

The map, shown below, was generated using the EPA's WATERS GeoViewer mapper website (https://epa.maps.arcgis.com/apps/webappviewer/index.html). The City of Hurst's location is denoted on the map with a blue star (*) and surrounding areas are shown in the background. Information about watersheds and water bodies within and adjacent to the City of Hurst as well as the condition of those water bodies is described in the State 303 (d) list which is developed every two years by the TCEQ in accordance with the Clean Water Act.



Purple Lines are watershed boundaries. Watershed boundaries define the area where surface water will drain to a certain point. These boundaries are from a national Watershed Boundary Dataset, which establishes a standard drainage boundary framework for the whole U.S.

Blue Lines are Rivers and Streams. Other water features such as lakes and ponds are also included and are various shades of blue.

Red Lines indicate that a river or stream is impaired because of the level of pathogens found in the water (harmful bacteria, viruses and protozoans). Pathogens are the number one cause of water impairments in our

Nations Rivers and streams. Common sources of pathogens in water bodies include discharges from wastewater treatment plans, combined sewer overflows and runoff from livestock operations. A stream that is shown in red is not meeting the water quality standards due to pathogens.

Endangered Species:

The Navasota ladies' tresses (*Spiranthes parksii*) are listed as an endangered species in the Trinity River Basin. Per the TPDES General Permit TXR040000 all permitted discharges are subject to the Federal requirements of the Endangered Species Act.

If it is determined that discharge would adversely affect the endangered species or habitat controls must be established to ensure the protection of the endangered or threatened species. Reference TXR040000 Part II.E.9

Adjacent/Enclave MS4s

There are no separate MS4s located within the City of Hurst corporate limits; however, six adjacent MS4s are located in neighboring cities that are outside of Hurst's City limits but within the Dallas-Fort Worth-Arlington Urbanized Area. They are as follows:

- Colleyville
- Bedford
- Euless

- Fort Worth
- Richland Hills
- North Richland Hills

There are several water bodies that receive discharges from the City of Hurst's MS4

- Walker Branch
- Calloway Branch
- Lorean Branch (Mesquite Branch)
- Sulphur Branch
- Valley View Branch
- Little Bear Creek

The majority of storm water runoff from the City flows into Walker Branch, which connects with the West Fork Trinity River southeast of the City. Walker Branch and three tributaries (Calloway Branch, Lorean Branch, and Sulphur Branch) traverse the City in a southerly direction. A fourth tributary that flows in a southerly direction between Lorean Branch and Sulphur Branch is Valley View Branch. The tributaries connect with Walker Branch just south of the City. Walker Branch then continues in an easterly direction to the West Fork Trinity River. Although Walker Branch and its tributaries traverse the City along a portion of their length, their headwaters originate outside Hurst's City limits. This is also true of Little Bear Creek, which traverses the northern portion of the City in an easterly direction and flows into Big Bear Creek and eventually into the Lower West Fork Trinity River. With the exception of Lorean Branch, a large portion of each watershed lies outside of the Hurst City limits in the surrounding cities of North Richland Hills, Colleyville and Bedford. The Lorean Branch watershed lies almost entirely within the Hurst City limits.

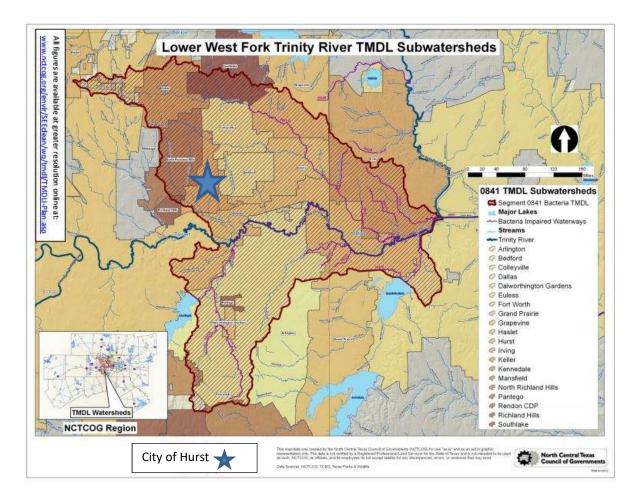
Storm water runoff from Hurst, whether by Walker Branch or Little Bear Creek, ultimately impacts a single stream segment designated by TCEQ as Segment 0841, Lower West Fork Trinity River. Segment 0841, as defined by the TCEQ, is a 27 mile long segment of the West Fork Trinity River from the confluence with the Elm

Fork Trinity River in Dallas County upstream to the confluence with Village Creek in Tarrant County. Water body uses that have been designated for segment 0841 include:

- Intermediate aquatic life use
- Contact recreation use
- General use
- Fish consumption use

Impaired Water Bodies & Total Maximum Daily Load (TMDL) Requirements

On December 11, 2013, an Implementation Plan for Seventeen Total Maximum Daily Load (TMDL) for Bacteria in the greater Trinity River Region was approved. This TMDL level was adopted on September 24, 2013 and represents the maximum amount of a pollutant that the stream can receive in a single day without exceeding minimum water quality standards.



Both the TMDL and the Implementation Plan were considered when the City of Hurst reviewed the Best Management Practices in this Storm Water Management Plan. In addition to the information provided in the Implementation Plan consideration was given to existing land use conditions when developing BMPs.

Relevant information considered while developing and evaluating the City of Hurst's BMPs is listed below.

- The City of Hurst has no lift stations.
 The City of Hurst has only a few on-site sanitary systems but there are many systems to the north and south of the City.
- The estimated dog population of between 5000-10000 dogs (NCTCOG estimate based on national average).
- There are no livestock operations.
- Land use is unlikely to change there is no future land use map.
- Chisholm Lake is stocked yearly by the TPWD Inland Fisheries Division. Fish do not contribute to bacteria but the water quality of the lake is evaluated by TPWD to ensure proper conditions as a neighborhood fishing lake.
- The City of Hurst has adopted and is implementing iSWM.
- The City of Hurst has a Storm Drain Utility.

Targeted BMPs are evaluated yearly and modified or improved in accordance with the General Permit. The City of Hurst does not have any waterways identified as "impaired" per the latest State of Texas 303(d) list, but is part of a sub-watershed of the Lower West Fork of the Trinity River which has an approved TMDL and Implementation Plan.

Those BMPs that will contribute to the reduction of Bacteria and improve Water Quality are as follows:

- 1. BMPs that promote Public Education and Outreach in nature such as those that encourage proper disposal of grease/fats/oils, pet waste, and yard waste, on-site septic system maintenance.
- 2. Illicit Discharge and Elimination regulations and training.
- 3. Continued monitoring and maintenance of the storm sewer system.
- 4. Reduction of Sanitary Sewer overflows.

Best Management Practices

Best Management Practices (BMPs) include schedules of activities, prohibitions of practices, maintenance procedures, structural controls, local ordinances, and other management practices to prevent or reduce the discharge of pollutants. BMPS also include treatment requirements, operating procedures and practices to control runoff, spills or leaks, waste disposal, or drainage from raw material storage areas.

Best Management Practices Permit Term 2019-2023

The City of Hurst is a <u>Level 2</u> Community required to adopt Best Management Practices for Minimum Control Measures (MCMs) #1 to #5. The 6th MCM applies to Level 4 communities and is not applicable to the City of Hurst. The 7th MCM is optional and the City of Hurst has decided not to develop it at this time.

Minimum Control Measures	BMPs
Permit Term 2019- 2024	Page #s
MCM#1 Public Education, Outreach & Involvement	13-16
MCM#2 Illicit Discharge Detection & Elimination (IDDE)	17-21
MCM#3 Construction Site Stormwater Runoff Control	22-23
MCM#4 Post Construction Stormwater Management in New Development and Redevelopment	24-25
MCM#5 Pollution Prevention and Good Housekeeping in Municipal Operations	26-30
MCM#6 Industrial Stormwater Sources	30
MCM #7 Authorization for Construction Activities where Small MS4 is the Site Operator	30

Measurable Goals Actions and Activities for BMPs

The Measurable Goals for each BMP are identified on a chart in <u>Appendix C</u>. Actions and Documented Activities are specified and will be reported to TCEQ in accordance with General Permit guidelines.

Minimum Control Measure #1 Public Education, Outreach, & Involvement

An effective public education program can significantly reduce other program costs, such as inspection and enforcement costs for the illicit discharge program. Informed citizens and business owners will usually take steps to reduce potential pollution from their own activities. In order for any regulatory program to be successful, especially a program dealing with storm water runoff where program benefits may not be readily apparent, public "buy in" to the regulatory process is necessary. Hurst public education BMPs target all six sectors of the public including residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel.

2019-2023 Best Management Practices
MCM 1.0 Public Education, Outreach, & Involvement

- 1.1 NCTCOG Stormwater Public Education Task Force
- 1.2 NCTCOG Cooperative Purchase and Outreach
- 1.3 Utility Bill Inserts
- 1.4 Educational Stormwater webpage for all ages
- 1.5 Storm Drain Markings
- 1.6 Adopt a SPOT
- 1.7 Stormwater Hotline
- 1.8 Yearly City Council Meeting Presentation on Stormwater Management Program

Description of BMP	1.1 NCTCOG Storm Water Public Education Task Force The North Central Texas Council of Governments (NCTCOG) has assembled a public education task force to develop and distribute educational materials and to conduct community outreach activities that will inform the public within the MS4 service area. Outreach activities will seek to inform the public about storm water impacts and water quality and hazards associated with illegal discharges and improper disposal of waste and steps that citizens can take to reduce pollutants in storm water runoff.
Target Audience	The targeted audience includes visitors to the city as well as residents, business owners, commercial and industrial facilities, construction site personnel and public service employees. City of Hurst has a representative attending at least quarterly.
Rational for Selection	Provides opportunity for City staff to participate in an established, regional program that has a proven track record for disseminating information throughout the community. Participating in a regional task force allows the sharing of information about products, experiences and opportunities among participants from different cities within the DFW area.
Department Reporting	Public Works Engineering and Operations

Description of BMP	1.2 NCTCOG Cooperative Purchase and Outreach The NCTCOG coordinates a cooperative purchase of outreach and education items that promote Cease the Grease, Smartscape, Doo the Right Thing and other Best Management Practices. The promotional and education items are purchased regionally to reduce costs. Purchases are made annually as needed according to stock on hand supplies.
Target Audience	Residents, Visitors, Public Service Employees, Businesses, Commercial and Industrial Facilities, Construction Site Personnel
Rational for Selection	The City can participate in established regional programs. NCTCOG has already developed and continues to update tools for participating municipalities including press releases, website, brochures, fliers, CDs, and promotional items for Cease the Grease, Doo the Right Thing and SmartScape.
Department Reporting	Public Works Operations; Building Inspections Neighborhood Services

Description of BMP	1.3 Utility Bill Inserts These are short printed inserts that are included in Hurst's water utility bill to educate the public with brief and concise information on a variety of storm water related topics. The City of Hurst will continue to use utility bill inserts to advertise the Household Hazardous Waste collection events. Because the inserts reach anyone who utilizes City water and wastewater services, the messages reach residents as well as owners of businesses and commercial and industrial complexes. City employees that live in Hurst will also receive the message.
Target Audience	Residents, Public Service Employees, Businesses, Commercial/Industrial
Rational for Selection	Utility Bill inserts are currently being utilized by the Hurst Water Department at least annually to convey a variety of short, simple messages. Utility bill inserts provide timely information and are very economical to produce
Department Reporting	Public Works Operations

Description of BMP	1.4 Educational City Website information & resources for all ages In order to reach the most students the City will put educational material and links to resources on the City of Hurst webpage. This will allow for the use of the information as needed in the classroom or at home. The City will promote use of the information with local school districts, at the local library and during local events. The City of Hurst SWMP, Annual Report, and related information will be the available at the City of Hurst website: https://www.hursttx.gov/about-us/departments/public-works/engineering-construction/storm-water-management , by December 31, 2019.
Target Audience	Residents
Rational for Selection	The City of Hurst has two school districts within the City limits. In order to provide up to date information and resources for all ages, the City will create a dedicated Storm Water Education page. The page will group information and resources by age so that it is easily accessible for students, families and educators.
Department Reporting	Public Works Engineering

ВМР	1.5 Storm Drain Markings This BMP consists of affixing plastic buttons with a "don't dump" message to storm drain inlet. Hurst has already installed plastic "no dumping" markers on every storm drain inlet in the city limits, as a participant in the NCTCOG's regional storm drain marker cooperative purchase program. The "no dumping" message is effective in educating the citizens of Hurst about storm water issues and the consequences of illegal dumping. The City is committed to continuing the maintenance of storm drain markers through annual inspection of each marker and replacing missing or damaged markers as necessary.
Target Audience	Residents, Visitors, Public Sector Employees, Businesses, Commercial and Industrial
Rational for Selection	The City currently has "no dumping" markers on all storm drain inlets. The Streets Department inspects each inlet on an annual basis during inlet

	cleaning and replaces missing or damaged markers as necessary. Markers are
	purchased via the NCTCOG Cooperative Purchase program thus lowering the
	cost of markers for the City and other regional participants in the program.
Department Reporting	Public Works – Streets and Drainage

ВМР	1.6 Adopt-a-Park Provides an avenue for volunteer groups and organizations both in Hurst and from other areas of the region to provide a day of service by cleaning up a park or stream. The Adopt-a-Park program organized by the Parks Department identifies open spaces and streams in need of clean up from debris and trash. Specific sites will be selected based on impact by trash, especially those passive and active recreation open spaces that are near water bodies.
Target Audience	Residents, Visitors, Public Service Employees, Businesses
Rational for Selection	This BMP is utilizes existing programs and volunteers to reduce trash and debris from entering streams and creeks.
Department Reporting	Parks Department

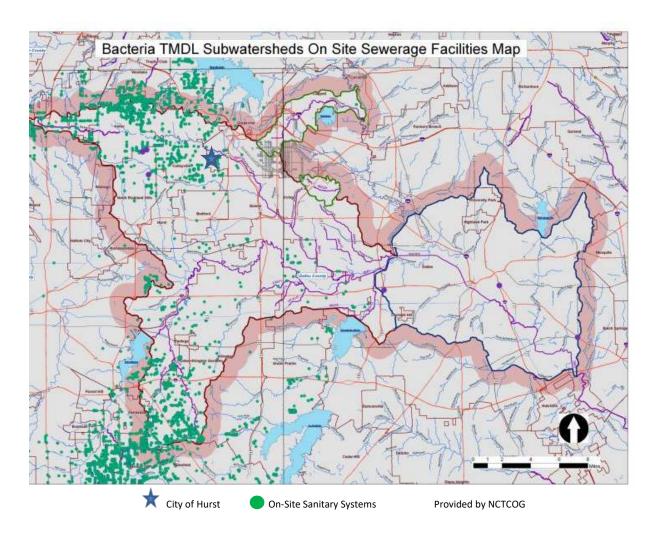
ВМР	1.7 Storm Drainage Information Hotline In addition to information available on the City website, the City staffs a 24-hr telephone line to report dumping and for information about storm water issues and management.
Target Audience	Residents, Businesses, Public Service Employees
Rational for Selection	The City of Hurst provides alternate options for residents who might not have access to the internet, who prefer to use the telephone, for those who may only be seeking general information. The recorded message gives general information, additional resources, and further contact information regarding stormwater quality protection and drainage concerns of residents. Hurst uses an existing phone line for this service.
Department Reporting	Public Works Operations

ВМР	1.8 Annual Stormwater Management Program Presentation at City Council Meeting Each year a presentation is made to City Council at a regularly scheduled meeting regarding the progress of the City's Storm Water Management Program. No action is required by City Council but the meeting is posted on the meeting agenda, is advertised on the website, and the public has an opportunity to attend the presentation.
Target Audience	Elected Officials, City Administration, Residents, Public Service Employees
Rational for Selection	City Council Meetings dates are well publicized and can be attended by the public. Providing City Council with an update about the Storm Water Management Program will give them feedback on the program and also allow for them to provide City Staff with guidance and exchange ideas and information relevant to storm water management.
Department Reporting	Public Works Engineering

MCM #2 Illicit Discharge Detection & Elimination (IDDE)

This program element is designed to ensure the elimination of illegal plumbing connections and discharges to the City of Hurst storm water system. The City of Hurst adopted an illicit discharge detection and elimination ordinance in 2016.

The City of Hurst has less than twenty existing on-site septic systems according to Tarrant County records. There are existing regulations and guidelines for the placement of new septic systems. When feasible, the City works to eliminate on-site septic systems and provide property owners with access to the City's public sanitary sewer. The City contracts with Tarrant County to permit new systems. There are procedures in place to address a system that is not functioning. In most areas of the City of Hurst, there is access to the City's public sanitary sewer system.



2019-2023 Best Management Practices MCM 2.0 Illicit Discharge Detection & Elimination (IDDE)

- 2.1 Storm Drain System Mapping
- 2.2 Dry Weather Screening
- 2.3 Illicit Discharge Detection and Elimination Ordinance
- 2.4 Illicit Discharge Investigations
- 2.5 Reduce Illegal Dumping
- 2.6 Reduce Sanitary Sewer Overflows
- 2.7 Pet Waste Reduction
- 2.8 Household Hazardous Waste Disposal
- 2.9 NCTCOG IDDE Task Force
- 2.10 On-site procedures for responding to illicit discharges and spills.

Description of BMP	2.1 Storm Drain System Mapping The City of Hurst has created and maintains city-wide GIS coverage of the public storm drain system. This map is updated on a continuous basis with
Description of Bivip	construction plan identity for each section of storm sewer and with available GPS field data to identify the location of outfalls.
Target Audience	Residents, Public Service Employees, Businesses, Commercial/Industrial
Rational for Selection	A Storm Drain system map will facilitate the City's investigations of any identified illicit discharges
Department Reporting	Public Works Engineering and GIS

ВМР	2.2 Dry Weather Screening The City of Hurst Staff will walk each creek annually during dry weather screening periods to make visual inspections and perform limited chemical analysis with field test kids to monitor for the presence of certain chemicals or pollutants. If chemicals analysis indicates a concentration of pollutant that is above the allowable threshold limits, further investigation will be required. The City of Hurst will use the NCTCOG Illicit Discharge Detection and Elimination (IDDE) Field Investigation Guide (2011) for Tier I & Tier II Chemical Parameters.
Target Audience	Residents, Businesses, Commercial/Industrial
Rational for Selection	This type of screening can be readily implemented by City staff. A regional dry weather screening protocol has been developed by NCTCOG.
Department Reporting	Public Works Operations

	2.3 Illicit Discharge Detection and Elimination Ordinance
Description of BMP	The City of Hurst adopted Ordinance 2306 in January 2016 to meet requirements of the SWMP and the TPDES. The objectives of the ordinance are: (1) To regulate the contribution of pollutants to the municipal separate storm sewer system (MS4) by stormwater discharges by any user. (2) To prohibit illicit connections and discharges to the municipal separate storm sewer system. (3) To require implementation of appropriate erosion and sediment control best management practices (BMPs) for land disturbance activities during construction and post construction. (4) To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this article. The City Code can be found on the internet at this website: https://library.municode.com/tx/hurst/codes/code of ordinances?nodeld=PTIICO CH26UT ARTIVSTMA
Target Audience	Residents, Visitors, Public Service Employees, Businesses, Commercial/Industrial, Construction Site Personnel
Rational for Selection	The City adopted an Illicit Discharge Detection and Elimination ordinance as specified in the General Permit.
Department Reporting	Public Works Operations; Building and Neighborhood Services

Description of BMP	2.4 Illicit Discharge Investigations Several methods are available for detection of illicit discharges to Hurst MS4. The City currently employs two methods of detection: dye testing and remote camera inspections. Fluorescent dye testing is a method of detecting illegal connections through the flushing of colored or fluorescent dye down the private sanitary sewer pipes to see if it is entering the City's storm drain system. The presence of this dye in storm drain discharges would confirm the presence of an illegal connection. Remote TV camera inspections are used to detect improper connections to storm drain lines such as cross-connections and they also allow City employees to examine the physical condition of the manholes and storm sewer lines.
Target Audience	Businesses, Commercial/Industrial
Rational for Selection	The City of Hurst currently uses both fluorescent dye testing and remote TV camera inspection for illicit discharge detection investigations. The Building Inspections department can issue stop work orders if needed to prevent illicit discharges.
Department Reporting	Public Works Engineering and Operations; Building Inspections and Neighborhood Services

	2.5 Reduce Illegal Dumping
Description of BMP	In coordination with public education BMPs, the City will provide
	opportunities for the proper disposal of waste.
Target Audience	Residents, Visitors, Public Service Employees, Businesses,
	Commercial/Industrial, Construction
Rational for Selection	Reducing Illegal dumping is essential to maintaining and improving the quality
	of storm water runoff. Illegal dumping reports will be investigated and

	violations enforced. Semi-annually the City of Hurst conducts Household Hazardous Waste collection events that provide the opportunity for residents to drop off items. The City contracts regionally so that the residents of Hurst have access to the Regional Environmental Collection Center for hazardous items throughout the year. Non-hazardous waste is collected curb-side regularly. Public Education & Outreach combined with opportunities to dispose of waste properly is the best way to reduce illegal dumping. Non-hazardous waste is part of regular curb-side pickup across the city.
Department Reporting	Public Works; Code Enforcement; Building Inspections and Neighborhood Services

	2.6 Reduce Sanitary Sewer Overflows
Description of BMP	The City will continue to work towards eliminating sanitary sewer overflows
	by scheduling preventative maintenance and cleaning.
Target Audience	Residents, Public Service Employees, Businesses, Commercial/Industrial,
rarget Audience	Construction Site Personnel
Rational for Selection	The City of Hurst participates in the Sanitary Sewer Overflow Initiative, actively inspects and educates businesses about the proper use and maintenance of grease traps, and requires that sewer connections be disconnected and capped off prior to issuing demolition permits in order to prevent ground water infiltration into the sanitary sewer. The City cleans and performs preventative maintenance on approximately 70 miles of its sewer mains each year.
Department Reporting	Public Works Engineering, Operations, Water and Wastewater, Building Inspections

	2.7 Pet Waste Reduction (Pet Waste Stations)
	Pet waste is a common source of pathogens in our waterways. The City of
	Hurst has an Ordinance that prohibits animal defecation on public or improved
	private property by other than the property owner's animal.
Description of BMP	The City will promote the regional initiative that encourages pet owners to
Description of Bivin	"DOO the Right Thing" with pet waste. The initiative educates pet owners
	about the negative impact pet waste has on streams and water bodies and
	encourages the proper disposal of pet waste.
	The City has installed and maintains twelve Doggy Depot stations at developed
	parks.
Target Audience	Residents, Visitors, Public Service Employees
	The City has signs and Doggy Depot Stations posted in parks to make citizens
	and visitors aware of the ordinance.
Rational for Selection	Pets are a common source of pathogens in waterways. The City of Hurst does
	not have livestock operations and is largely built out with residential and
	commercial uses. By providing information about the benefits of picking up
	pet waste and providing well stocked Doggy Depots, the City of Hurst can
	minimize the amount of pet waste entering the City's creeks/waterways.
Department Reporting	Parks; Building Inspections and Neighborhood Services; Animal Control

Description of BMP	2.8 Household Hazardous Waste Disposal Many common household products contain potentially hazardous chemicals. Improper disposal of these household hazardous wastes into the sanitary or storm drain system can potentially have a negative impact on water quality. The City provides several opportunities for residents to dispose of hazardous items properly by hosting drop off events and by contracting year round with regional facilities.
Target Audience	Residents, Public Service Employees, Businesses, Commercial/Industrial, Construction
Rational for Selection	The City has contracted with the City of Fort Worth and Republic Services/Allied Waste to provide residents the opportunity to properly dispose of hazardous and nonhazardous waste. The City publicizes and hosts events within the City for residents.
Department Reporting	Public Works; Building Inspections and Neighborhood Services

Description of BMP	2.9 NCTCOG Illicit Discharge Detection Elimination (IDDE) Task Force The Regional Storm Water Management Program's IDDE Task Force, composed of representatives from participating local governments, meets quarterly to discuss opportunities for regional cooperation and initiatives, as well as to share ideas, questions, and challenges faced in managing local programs.
Target Audience	Public Service Employees
Rational for Selection	The City can participate in an established, regional program that provides an opportunity to share information about products, experiences, and opportunities amount participants from around DFW. Staff use these meetings as a continuing education opportunity in efforts to keep updated on means and methods for detection and response.
Department Reporting	Public Works

Description of BMP	2.10 On-site procedures for responding to illicit discharges and spills. City environmental staff conduct routine inspections and dry weather screening of area waterways to monitor and detect illicit discharges. Once a potential illegal discharge is identified activities focus on testing to determine the type of substance and degree of risk of environmental harm, and finally to track drainage system back to point of origin to enforce City code for violations.
Target Audience	Public Service Employees
Rational for Selection	To expedite the response time when responding to an illicit discharge or spill.
Department Reporting	Public Works Engineering, Streets & Drainage, Operations, BINS, Water & Wastewater, and Parks Department

MCM#3 Construction Site Stormwater Runoff Control

Erosion is natural and so is sediment entering waterways but during a short period of time construction sites can contribute more sediment to streams than can be deposited naturally during several decades. Stabilizing construction sites to prevent erosion and keep sediment from entering the MS4 protects streams and keeps the City's storm sewers functioning properly.

2019-2023 Best Management Practices

MCM 3.0 Construction Site Storm Water Runoff Control

- 3.1 Erosion Control Site Plan Review
- 3.2 Pre-Construction Meeting Discussion
- 3.3 Implement iSWMTM for Contruction Storm Water Management

Description of BMP	3.1 Erosion Control Site Plan Review As provided for in the City's IDDE ordinance the City of Hurst administers an erosion control permitting process, which includes reviews of construction plans for both builders and developers, including erosion control and grading plans. For residential and commercial builders, the City requires an erosion control permit prior to granting a building permit for sites disturbing areas of 1-ac or greater. Developers are also required to complete the erosion control permit process before obtaining a permit to construct public infrastructure. The City's permitting process includes a regulatory mechanism with possible sanctions to ensure compliance. Further, contractors are required to install erosion and sediment control BMPs and construction site waste BMPs in accordance with the TPDES CGP TXR 150000.
Target Audience	Businesses, Commercial/Industrial, Construction
Rational for Selection	Requiring erosion and sediment control on construction sites prevents sediment from entering the MS4 and waterways.
Department Reporting	Public Works Engineering; Building Inspections and Neighborhood Services (BINS)
Description of BMP	3.2 Pre-Construction Meeting Discussion The City of Hurst Engineering and Building Inspections departments currently require pre-construction meetings with applicants prior to granting permits for building projects or development projects. These meetings include discussions that include erosion control procedures. The meetings allow City staff to convey information on erosion and sedimentation control BMPs described in the integrated Storm Water Management (iSWM TM) Criteria Manual for Site Development and Construction (iSWM TM), as well as City ordinances, plan review procedures, inspection process, and enforcement options. The City may issue stop work orders when necessary.
Target Audience	Businesses, Commercial/Industrial, Construction
Rational for Selection	Reviewing plans for potential water quality impacts is best done prior to construction.
Department Reporting	Public Works Engineering; Building Inspections and Neighborhood Services; Community Development

Description of BMP	3.3 Implement iSWM TM for Construction Storm Water Management Via ordinance 2215 the City adopted iSWM TM Criteria Manual for Site Development and Construction developed by NCTCOG with local amendments. Available from NCTCOG are training sessions for construction storm water inspectors. Training topics include site development plans, design calculations, proper BMP selection and installation as well as inspection
	requirements and regulations.
Target Audience	Public Service Employees, Businesses, Commercial/Industrial, Construction
Rational for Selection	The City of Hurst has adopted and participated in the development of iSWM [™] , and is utilizing the Adoption and Implementation Program Guide that has been prepared for iSWM [™] implementation.
Department Reporting	Public Works Engineering: Building Inspections; Community Development

MCM#4 Post-Construction Stormwater Management in New Development and Redevelopment

Impervious surfaces such as rooftops, roads and parking lots can increase urban runoff and have a detrimental impact on aquatic systems due to increased concentrations of sediment, nutrients, road salts, heavy metals, pathogenic bacteria, and petroleum hydrocarbons. The best way to mitigate storm water impacts from new development is to use practices to treat, store and infiltrate runoff onsite before it can affect downstream water bodies. Innovative site designs that reduce imperviousness and smaller-scale low impact development practices may be dispersed throughout a site to achieve the goals of reducing flows and improving water quality.

2019-2023 Best Management Practices

MCM 4.0 Post-Construction Storm Water Management in New Development and Redevelopment

- 4.1 Implement iSWMTM for Post-Construction Storm Water Management
- 4.2 Channel/Inlet Maintenance & Inspection
- 4.3 Document and Maintain Records of Enforcement Actions
- 4.4 Long –Term Maintenance Program

Description of BMP	4.1 Implement iSWM TM for Post-Construction Storm Water Management The integrated Storm Water Management Program (iSWM TM) is a cooperative initiative by NCTCOG that assists cities in achieving post-construction water quality protection, stream bank protection and flood mitigation goals. The iSWM TM Criteria Manual addresses post-construction storm water management in areas undergoing development or redevelopment.
Target Audience	Businesses, Commercial/Industrial, Construction
Rational for Selection	Adopting design standards focused on mitigating the quantity and quality of storm water runoff can prevent substantial negative impacts to receiving waters. iSWM TM details design options focused on delivering improved stormwater quality. It is a regionally developed program implemented at the local level. The specified design standards emphasize open space

	development and preserve natural features that create livable communities with character and access to nature. Using the design standards detailed in the manual will benefit the City of Hurst by reducing ongoing operation and maintenance costs.
Department Reporting	Public Works Engineering

Description of BMP	4.2 Channel/Inlet Maintenance & Inspection The City of Hurst currently conducts channel maintenance and inlet inspection cleaning. All inlets are inspected and cleaned annually. Channel maintenance includes removing silt and trash. Vegetative maintenance is performed in channels as needed. City owned detention pond/silt traps are cleaned twice a year or as needed. Cleaning and maintenance activities are tracked through a work order system. All removed waste is disposed of at a certified disposal site. The City will continue to update its GIS storm sewer map layer to include permanent post-construction BMPs. The layer will identify plan numbers,
	easements and maintenance agreements.
Target Audience	Residents, Businesses, Commercial/Industrial, Construction
Rational for Selection	Maintenance and inspection of channels and inlets is essential to proper function of the MS4. Identifying the location, construction plans, and maintenance agreements will assist City Staff in performing maintenance and checking on maintenance by others.
Department Reporting	Public Works Engineering; Public Works Streets & Drainage; GIS

Description of BMP	4.3 Document and Maintain Records of Enforcement Actions Document and maintain enforcement actions, as needed, utilizing the existing computer based CityWorks® workorder management system.
Target Audience	Public Service Employees
Rational for Selection	The CityWorks ® workorder tracking software has existing capability to track reports of violations, inspection findings, subsequent compliance actions, if any, and create follow up notices.
Department Reporting	Public Works;

Description of BMP	4.4 Long –Term Maintenance Program Require Maintenance Agreement for any structural stormwater control measure on new and redevelopment projects of 1-ac and greater. Terms of agreement are to be negotiated and be appropriate for each site. Agreement will be filed of record to follow the property regardless of ownership transfer and may be included in the Final Plat. (Ref IDDE and iSWM)
Target Audience	Residents, Businesses, Commercial/Industrial, Construction
Rational for Selection	Maintenance of permanent structural stormwater controls and drainage facilities is needed to ensure they function properly from the time they are first installed throughout the design life.
Department Reporting	Public Works

MCM#5 Pollution Prevention and Good Housekeeping for Municipal Operations

Identification of BMPs for this Minimum Control Measure is an opportunity to showcase the City of Hurst's program and procedures already in place for the proper maintenance of systems and equipment. The City's stormwater program must be founded on achievable pollution prevention measures for the City's facilities and field operations. Feedback from employees during City training sessions will facilitate continued innovation and ownership of BMPs and cooperation to implement BMPs to the Maximum Extent Practicable. Modeling BMPs in City operations provides an example for others in the community to follow and contributes to the overall quality of life in the community.

Existing good housekeeping measures can include schedules of activities, educational practices, maintenance procedures, prohibition of practices, treatment practices, operating procedures, practices to control site run off, spills or leaks, sludge or water disposal, or drainage from raw material storage.

Many of the BMPs for this Minimum Control Measure might just seem routine to employees. Through training and education the benefits and impact the BMPs have to stormwater management can be highlighted. Often these BMPs have other positive impacts such as reducing costs. BMPs can always be improved or tailored to better meet the needs of City employees and a community. Providing a connection between day to day activities and the long term quality and function of the City's MS4 and receiving waters will allow for innovation and improvement of BMPs to continue.

2019-2023 Best Management Practices

MCM 5.0 Pollution Prevention and Good Housekeeping in Municipal Operations

- 5.1 NCTCOG Pollution Prevention Training
- 5.2 NCTCOG Pollution Prevention Task Force
- 5.3 Roadway Cleaning
- 5.4 Vehicle Maintenance
- 5.5 Vehicle Washing
- 5.6 Vehicle Fueling
- 5.7 Develop Pollution Prevention Practices for the Operation and Maintenance (O&M) Activities
- 5.8 Purchase/Use Dechlorination Equipment
- 5.9 Licensed Applicators Pesticides/Fertilizers
- 5.10 Inventory Facilities and Stormwater Controls Owned and Operated by the City within the MS4
- 5.11 Inspection and Maintenance of City owned Structural Controls

Description of BMP	5.1 NCTCOG Pollution Prevention Training The City of Hurst will participate in the NCTCOG's Regionally Developed Initiative "Preventing Storm Water Pollution: What We can Do" Municipal Training. Designated city employees attend the "Train-the-Trainer" workshop sponsored by NCTCOG. The City trainer will then prepare and implement general training for City employees on storm water pollution prevention techniques.
Target Audience	Public Service Employees
Rational for Selection	Participating in a regional training program ensures that the City utilizes similar pollution prevention BMPs as other cities in the DFW metroplex. When new employees are hired an annual training effort will train new employees on storm water pollution prevention techniques. Existing employees will receive ongoing training to remind them of their role in storm water pollution prevention.
Department Reporting	Public Works Operations

Description of BMP	 5.2 NCTCOG Pollution Prevention Task Force Participate in the Pollution Prevention Task Force. The Task Force recommends and oversees programs that help cities to: Prevent or reduce pollutant runoff from municipal operations including streets, highways, municipal parking lots, maintenance facilities, storage yards, and waste transfer stations. Remove floatables and other pollutants discharged from storm sewers and develop procedures for proper disposal of these wastes.
Target Audience	Public Service Employees
Rational for Selection	Provides the City and opportunity to participate in an established, regional program that allows sharing of information about products, experiences and opportunities among participants from different cities within the DFW area.
Department Reporting	Public Works

Description of BMP	5.3 Roadway Cleaning The City of Hurst will continue to perform street sweeping and cleaning at the current frequency. The city is divided into zones for street sweeping. Each zone is swept at least twice a year. The City Service Center parking lot is swept on a quarterly basis.
Target Audience	Public Service Employees
Rational for Selection	Sweeping city streets removes pollutants and floatables that would otherwise be washed into the MS4.
Department Reporting	Public Works – Streets and Drainage

Description of BMP	5.4 Vehicle Maintenance Employees use a checklist that specifies clean up and disposal procedures. In addition supplies such as rags are stocked and identified for use if a spill occurs. These procedures and policies will continue to be followed for vehicle maintenance. Vehicle maintenance is performed at the City Service Center.
Target Audience	Public Service Employees

Rational for Selection	Vehicle maintenance is performed for all City vehicles at the City Service
	Center. Many vehicle fluids such as oils, hydraulic transmission fluids and ethylene glycol (engine coolant/anti-freeze) are already collected for
	recycling. The garage uses parts cleaner that filters and reuses the cleaning solution. Solvent cleaners are recycled which helps eliminate waste solvent
	generation.
Department Reporting	Fleet Services

Description of BMP	5.5 Vehicle Washing The City Service Center has a vehicle washing station with a grit trap that is plumbed to the sanitary sewer. The grit trap requires maintenance and cleaning a minimum of once a month.
Target Audience	Public Service Employees
Rational for Selection	A grit trap is utilized to filter all wash water from the vehicle wash bay and is maintained on a regular basis. Trip tickets are used as documentation of measurable goals.
Department Reporting	Public Works-Water/Wastewater

Description of BMP	5.6 Vehicle Fueling Vehicle fueling will continue to be performed at the City Service Center. The fueling area consists of two covered pumps that dispense diesel and auto gasoline. The system will remain in compliance with current TCEQ regulations.
Target Audience	Public Service Employees
Rational for Selection	The facility has automated monitoring and control system with alarms and leak detection for underground storage tanks. The facility is already covered by an awning to prevent storm water contact with the dispensing equipment.
Department Reporting	Fleet Services

Description of BMP	5.7 Develop Pollution Prevention Practices for City Operations and Maintenance Activities This management practice involves the proper storage of materials at municipal facilities to prevent or reduce the discharge of pollutants to storm water. These practices typically involve storing material in a designated area, installing secondary containment, inspecting the storage areas frequently and training employees. Trash and debris removed by City street sweepers and maintenance crews are transferred to roll off containers to be disposed of on a weekly basis by the City's solid waste contractor. Aggregate and roll off bin improvements prevent sediment from being transported to storm drains.
Target Audience	Public Service Employees; Contractors of the City of Hurst
Rational for Selection	Training for employees will emphasize that best management practices apply while in the field and at the service center. Proper training and procedures will ensure that the Service Center does not negatively impact the MS4. A list of possible pollutants of concerns, a pollution prevention measures checklist, and annual inspections will help to develop and maintain pollution prevention measures.
Department Reporting	Public Works Operations; Parks Operations; Fleet Services

escription of BMP	5.8 Purchase/Use Dechlorination Equipment The City of Hurst uses dechlorination equipment in the Water/Wastewater Division of the Public Works Department and the Fire Department to remove the residual chlorine prior to discharge of water into the MS4. The Water Division uses the equipment when releasing super chlorinated water from of disinfected new water lines, and when scouring distribution system pipelines. The Fire Department uses the equipment when testing fire hydrants. The equipment is also made available to the Parks Department as needed.
Target Audience	Public Service Employees
Rational for Selection	Dechlorination equipment prevents the discharge of chlorinated water into the MS4.
Department Reporting	Public Works - Water/Wastewater

Description of BMP	5.9 Licensed Applicators Pesticides/Fertilizers The City of Hurst maintains several landscaping facilities. The City has a fertilizer and weed abatement (pre- and post-emergent) program. The City employs licensed applicators that apply chemicals on an as needed basis. The City's work order system allows for the tracking these of activities. Applicators are licensed through the Texas Department of Agriculture as Non-commercial applicators for restricted-use or state-limited-use pesticides.
Target Audience	Public Service Employees
Rational for Selection	Licensed applicators are employed as needed and their work is documented by the electronic work order system.
Department Reporting	Parks Department; Public Works;

	5.10 Inventory municipal facilities and stormwater controls, owned and
	operated by the City within the MS4
Description of BMP	Develop and maintain inventory of location and type of structure of all City owned and/or operated structural stormwater control facilities. The inventory list will be updated as needed when any new facilities are constructed or installed. Any special inspection procedures or maintenance procedures or equipment needed for a particular location will be included in notes on the inventory list.
Target Audience	Public Service Employees
Rational for Selection	Availability of a comprehensive listing of municipal facilities and stormwater
	controls owned by the City is essential to being able to track the frequency of
	inspection and the findings, and recommended maintenance action.
Department Reporting	Public Works Street and Drainage Operations; Parks Department

	5.11 Inspection and Maintenance of City owned Structural Controls
	Develop Inspection procedures and annually conduct inspection of structural
Description of BMP	stormwater quality controls and perform maintenance by removing debris
	and making repairs as needed to ensure effectiveness. Maintain log of
	maintenance activities at each facility.
Target Audience	Public Works Streets and Drainage Operations;

D 1: 10 0 1 1:	
Rational for Selection	Regular inspections and follow up maintenance, and tracking these activities,
	ensure proper operation, and thereby the effectiveness of the structural
	stormwater quality controls.
Department Reporting	Public Works Street and Drainage Operations

MCM#6 Industrial Stormwater Sources

<u>City of Hurst is a LEVEL 2 small MS4 community</u>. MCM #6 is not applicable to the City of Hurst at this time. This Minimum Control Measure is applicable only to Level 4 small MS4 communities.

MCM #7 Authorization for Construction Activities where the Small MS4 is the Site Operator

Authorization for Municipal Construction Activities is optional and has not been developed by the City of Hurst at this time.

Program Summary

The Storm Water Management Program highlights the Best Management Practices the City of Hurst has in place, promotes training and collaboration between City Departments and personnel and allows for innovation and improvements as needed to address Storm Water Management. The Programs largest number of BMPs address MCM 1, Public Education, Outreach, and Involvement and MCM 5, Pollution Prevention and Good Housekeeping for Municipal Operations.

BMPs identify why and how residents, visitors, public service employees, businesses, commercial facilities, industrial facilities, and construction personnel can contribute to the quality of storm water runoff. The BMPs were selected to promote collaboration and innovation within the City of Hurst and throughout the region. Non-point source pollution is something that communities must address in a regional manner. Improvements and changes are a necessary part of the overall program. If a BMP isn't adequately addressing water quality, and can be improved, it will be documented and shared with TCEQ in accordance with the General Permit requirements.

The City of Hurst partners with others in the region by participating in the NCTCOG's Regional Storm Water Management Program. Regional education and outreach as well as the cooperative purchase program benefits the City of Hurst as well as others within the City's watershed. Through the City's own efforts as well as partnerships with neighboring communities, the region's Best Management Practices are standardized and improved.

A regional watershed approach to storm water management also takes into consideration the adopted TMDL for the Lower West Fork Trinity Sub Watersheds. As a partner in this watershed, yearly evaluation of BMP effectiveness will be done to ensure reduction of bacteria per the TMDL for the Lower West Fork of the Trinity River. NCTCOG provides guidance and an essential regional connection for the City of Hurst when it comes to the reduction of bacteria and will be consulted throughout the implementation of the SWMP in the City of Hurst. As NCTCOG identifies BMPs that will contribute to the reduction of bacteria in the watershed, the City of Hurst will consider adding them to the Public Outreach and Education efforts.

The City of Hurst has an existing website for all employees. As part of the review and revision to the SWMP, an Employee webpage has been developed. The page will be maintained and updated with information, training, and resources regarding storm water management BMPs. This will allow for new employees to understand the history of the SWMP in the City of Hurst and contribute to its successful implementation. It will also allow for employees to research solutions and opportunities that might occur during implementation of the BMPs.

Annual reports will be submitted to TCEQ based on the Measurable Goals, Actions, and Documented Activities specified in Appendix C. Five reports will be submitted based on the calendar year, January to December. Annual reports will follow sequentially each calendar year with the first annual report covering January 1, 2019 through December 31, 2019, and each annual report covering the next calendar year period.

APPENDIX A:

Notice of Intent (NOI)



Notice of Intent (NOI) for Small Municipal Separate Storm Sewer CEQ Systems (MS4) authorized under TPDES Phase II MS4 General Permit TXR040000

IMPORTANT:

Use the INSTRUCTIONS to fill out each question in this form.

Once approved, your permit authorization can be viewed at: http://www.tceq.texas.gov/goto/wq-dpa

APPLICATION FEE:

You must pay the \$400 Application Fee to TCEQ for the application to be complete.

Payment and NOI must be mailed to separate addresses.

You can pay online at: http://www.tceq.texas.gov/goto/epay

Select Fee Type: GENERAL PERMIT MS4 PHASE II STORMWATER DISCHARGE NOI APPLICATION

Provide your payment information below, for verification of payment:

Mailed Check/Money Order Number:

Check/Money Order Amount:

Name Printed on Check:

EPAY Voucher Number: 425140

Is a copy of the Payment Voucher enclosed?

One (1) copy of the NOI, Stormwater Management Program (SWMP) cover sheet, and SWMP MUST be submitted with the original NOI, SWMP cover sheet, and SWMP.

Is the copy attached? ⊠ Yes

REASON FOR APPLICATION:

Select the reason you are submitting this application:

- □ New authorization
- ☑ Renewal of authorization number: TXR040039

Note: An authorization cannot be renewed after July 23, 2019

Section 1. OPERATOR (Applicant)

- a) If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? CN $\underline{601349863}$
- b) What is the exact Legal Name of the entity (applicant) applying for this permit? <u>City of Hurst, Texas</u>
- c) Complete and attach a Core Data Form (TCEQ-10400) for this customer.

Section 2. ANNUAL BILLING CONTACT

The operator is responsible for paying the annual water quality fee. The annual fee will be assessed to permits active on September 1 of each year. TCEQ will send a bill to the address provided in this section. The operator is responsible for terminating the permit when it is no longer needed.

Provide the name and contact information of the billing contact.

Prefix (Mr. or Ms.): Mr.

First and Last Name: Gregory Dickens

Title: Director of Public Works

Organization Name: <u>City of Hurst</u>

Phone Number: 817-788-7076

Fax Number:

Email: gdickens@hursttx.gov

Mailing Address: <u>1505 Precinct Line Road</u>
City, State, and Zip Code: <u>Hurst, TX, 76054</u>

Section 3. APPLICATION CONTACT

This is the person TCEQ will contact if additional information is needed about this application.

Provide the name and contact information of the application contact.

Prefix (Mr. or Ms.): Mr.

First and Last Name: Duane Hengst

Title: City Engineer

Organization Name: City of Hurst

Phone Number: 817-788-7076

Fax Number:

Email: <u>dhengst@hursttx.gov</u>

TCEQ- 20368 (02/28/2019)

Notice of Intent for General Permit TXR040000

Mailing Address: <u>1505 Precinct Line Road</u>

City, State, and Zip Code: Hurst, TX, 76054

Section 4. REGULATED ENTITY (RE) INFORMATION FOR SITE

- a) If this is an existing permitted site, what is the Regulated Entity Number (RN) issued to this site? RN $\underline{105481196}$
- b) Name of site as known by the local community:

City of Hurst

- c) Name of the urbanized area(s) the Phase II MS4 is located within: Dallas-Fort Worth-Arlington Urbanized Area
- d) Provide a brief description of the regulated MS4 boundaries: *Example: Area within the City of XXXX limits that is located within the xxx urbanized area*:

Area within the City of Hurst city limits that is located in the Dallas-Fort Worth-Arlington Urbanized Area.

Section 5. GENERAL CHARACTERISTICS

- a) Is this site located on Indian Country Lands?
 - ☐ Yes, do not submit this form. You must obtain authorization through U.S. EPA Region 6.
 - ☑ No, continue to item b
- b) Has TCEQ formally "designated" the small MS4 as needing coverage under this general permit?
 - ☐ Yes. Attach a copy of the documentation sent to the MS4 by TCEQ.
 - ⊠ No
- c) Select the MS4 level, which is based on the population served within the urbanized area (UA) based on the most recent Decennial Census at the time of issuance of the general permit.
 - ☐ **Level 1:** Traditional small MS4s with a population of less than 10,000.
 - **Level 2:** Traditional small MS4s with a population of at least 10,000 but less than 40,000.

Non-traditional MS4s: This level also includes all non-traditional small MS4s regardless of population unless the non-traditional MS4 can demonstrate that it meets the criteria for a waiver from permit coverage. Examples of non-traditional small MS4s include counties, drainage districts, transportation entities, military bases, universities, colleges, correctional institutions, municipal utility districts, and other special districts.

□ **Level 3:** Traditional small MS4s with a population of at least 40,000 but less than 100,000.

	\square Level 4: Traditional small MS4s with a population of 100,000 or more.
d)	What is the estimated current population served by your MS4 (regulated area?)
	38,992 People
e)	Is the MS4 part of a coalition?
	□ Yes
	⊠ No
f)	If yes, list the entity names of the coalition members responsible for implementation of the SWMP <i>and</i> their unique TXR04### number.
1.	TXR04
2.	TXR04
3.	TXR04
4.	TXR04
5.	TXR04
6.	<u>TXR04</u>
If 1	needed, add a copy of this page to add more entities.
g)	What is your annual reporting year?
	⊠ Calendar year
	☐ Small MS4 General Permit year
	☐ MS4 Fiscal year - What is the last month and day of the fiscal year?
h)	Stormwater Management Program (SWMP)
	1. I certify that the SWMP submitted with this NOI has been developed according to the provisions of the Small MS4 General Permit TXR040000. ☐ Yes
	2. I certify that the SWMP Cover Sheet is completed and attached to the front of the SWMP. ☐ Yes
	3. Have the program elements in the previous SWMP been re-assessed and modified and new program elements been developed and implemented, as necessary?
	⊠ Yes
	\square No. This facility did not have a previous authorization.
	4. Is the optional 7 th Minimum Control Measure (MCM) for Municipal Construction Activities selected and included with the attached SWMP?
	☑ No. Continue to Question 5.
	□ Yes.

If yes, is MCM 7 limited to the regulated area within the urbanized area?

TCEQ- 20368 (02/28/2019)

Page 6

Yes. Continue to Question	5.
No	

If No, then MCM 7 is included in the geographic area or boundary outside of the urbanized area. <u>Note</u>: *In this case, you must incorporate the entire area* (urbanized and non-urbanized areas) in the SWMP and implement <u>all</u> MCMs 1-7 in the urbanized and non-urbanized areas.

5. Provide the name and contact information of the person responsible for implementing or coordinating implementation of the SWMP.

Prefix (Mr. or Ms.): Mr.

First and Last Name: Duane Hengst

Title: City Engineer

Organization Name: City of Hurst

Phone Number: <u>817-788-7076</u>

Fax Number:

Email: dhengst@hursttx.gov

Mailing Address: 1505 Precinct Line Road

City, State, and Zip Code: Hurst, TX, 76054

- i) Discharge Information
 - 1. What is the name of the waterbody(ies) receiving stormwater discharges from the MS4? <u>Calloway Branch, Walker Branch, Lorean Branch, Valley View Branch, Sulphur Branch, Little Bear Creek.</u>
 - 2. What is the classified segment number(s) that the discharges will eventually reach? <u>0806 West Fork Trinity River Below Lake Worth, and 0841 Lower West Fork Trinity River</u>

Does the small MS4 discharge directly or indirectly into the classified segment(s)?

- ☐ Directly
- ☑ Indirectly
- 3. Are any of the waterbody(ies) receiving discharges from the small MS4 identified as impaired waters (Category 4 or 5) in the *Texas Integrated Report of Surface Water Quality?*
 - ⊠ Yes

What is the name of the impaired waterbody(ies) receiving the discharge from the small MS4? <u>Segment 0841-01 and 0841-02 – Lower West Fork Trinity River</u>

What is/are the pollutants(s) of concern? <u>Dioxin in edible tissue</u>, and PCBs in edible tissue

□ No

4. Does the impaired water body(ies) have a TMDL (Category 4 waterbody)?

⊠ Yes

What is/are the pollutants with a TMDL? <u>Bacteria</u>

□ No

5. Does your MS4 discharge into any other MS4 entity's jurisdiction prior to discharge into water in the state?

⊠ Yes

What is the name of the MS4 operator? <u>City of Fort Worth, City of Colleyville, City of Bedford, TXDOT Fort Worth District</u>

□ No

6. Edwards Aquifer Rule

Is the discharge or potential discharge within the Recharge Zone, Contributing Zone, within the Contributing Zone within the Transition Zone, or zero to ten (0 to 10) miles upstream of the Recharge Zone of the Edwards Aquifer?

☐ Yes - NOTE: A copy of the agency approved Water Pollution Abatement Plan (WPAP) required by the Edwards Aquifer Rule (30 TAC Chapter 213) must be either included or referenced in the SWMP.

⊠ No

- j) Public Participation Process
 - 1. Provide the name and contact information of the person responsible for publishing notice of the executive director's preliminary determination on the MS4's NOI and SWMP?

Prefix (Mr. or Ms.): Mr

First and Last Name: Duane Hengst

Title: City Engineer

Company: City of Hurst

Phone Number: 817-788-7076

Fax Number:

Email: dhengst@hursttx.gov

Mailing Address: 1505 Precinct Line Rd

Internal Routing (Mail Code, Etc.):

City, State, and Zip Code: Hurst, TX, 76054

2. Provide the name and location of the public place where copies of the NOI, SWMP, Small MS4 General Permit TXR040000, and general permit fact sheet may be viewed and copied by the public?

Name of Public Place: City of Hurst City Hall

Address of Public Place: 1505 Precinct Line Road, Hurst, TX 76054

County of Public Place: <u>Tarrant</u>

- 3. Provide the address for the website where the MS4's SWMP and annual report will be posted. https://www.hursttx.gov/about-us/departments/public-works/engineering-construction/storm-water-management
 - ☐ Do not have a website.

Section 6. CERTIFICATION

I certify that I have obtained a copy and understand the terms and conditions of the Phase II (Small) MS4 General Permit TXR040000 issued January 24, 2019.

⊠ Yes

I certify that the small MS4 qualifies for coverage under the Phase II (Small) MS4 General Permit TXR040000.

⊠ Yes

I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed.

⊠ Yes

I understand that authorizations active on September 1^{st} of each year will be assessed an Annual Water Quality Fee.

⊠ Yes

Operator Certification

Operator Signatory Name: <u>Clay Carutherss</u>

Operator Signatory Title: <u>City Manager</u>

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant

imprisonment for knowing violations.
I further certify that I am authorized under 30 Texas Administrative Code §305.44 to

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.

Signature (use blue ink):	Date:
Signature (use blue liik).	Date

penalties for submitting false information, including the possibility of fine and

APPENDIX B:

TCEQ Core Data Form



TCEQ Core Data Form

TCEQ Use Only

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			7				300			current	and	active with the
Texas Sec	retary o	f State (SOS)	or Texas C	omptrol	er of P	ublic	Accou	ınts (CPA).			
5. Customer	Legal Na	me (If an individua	I, print last nam	e first: eg: D	ioe, John)		<u>If r</u>	ew Cus	stomer, enter j	previous Cu	stom	er below:
City of Hu	urst											
7. TX SOS/CI		Number	8. TX State	Tax ID (11	digits)		9.	Federal Tax ID (9 digits) 10. DUNS Number			S Number (if applicat	
							75	75-6004020				
11. Type of C	Customer	: Corporati	ion	☐ Individual				Partnership: ☐ General ☐ Limited				
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12. Number of	CTREE OF COMME		☑ 251-500		1 and high			. Indep	endently Ow	wned and C No)pera	ited?
14. Custome	r Role (Pr	roposed or Actual) -	as it relates to	the Regula	ted Entity	listed on	this for	m. Plea	se check one c	of the followin	ng:	
Owner Occupation	nal Licens	Opera	ator onsible Party		Owner 8 Voluntar			plicant	⊠Oth	er: Munic	ipali	ty
	1505 F	Precinct Line	Rd									
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18. Telephon	ne Numbe	r		19. Exten	ision or	A222 - 151			20. Fax Nu	mber (if ap	plical	ble)
(817) 78	88-7027								()	.=		
CTION	III: Re	egulated En	tity Infor	rmation	1							
1. General R	Regulated	Entity Informati	on (If 'New R	egulated E	ntity" is s	elected	below	this for	m should be a	accompanie	ed by	a permit applicati
New Regu	ulated Enti	ty Update	to Regulated I	Entity Nam	e 🛛	Update	to Reg	ulated	Entity Informa	ation		
		tity Name sub endings such				order	to m	eet To	CEQ Agend	cy Data S	Stan	dards (remova
22. Regulated	d Entity N	lame (Enter name	of the site when	e the regula	ted action	is taking	g place.)	Ú				
City of Hu	ret											

TCEQ-10400 (04/15) Page 1 of 2

Signature:

23. Street Address		1505 Pr	ecinct Line	Rd								
the Regulated Ent (No PO Boxes)	-	City	Hurst	State	TX		ZIP	760	054	ZIP+4		
24. County		Tarrant		The second second	20					17	-5.0	
•	7	distribution of the second	ter Physical L	ocation Descrip	tion if no	street a	ddress	s is provi	ded.			
25. Description to Physical Location				Rd, Hurst, T	1179000	A Description						
26. Nearest City								State	(Ne	arest ZIP Code	
Hurst								Tx		76	054	
27. Latitude (N)	In Decima	al:	32.840719)		28. Lon	gitude	(W) In	Decimal:	-97.1868	60	
Degrees	10	Minutes	1)	Seconds		Degrees			Minutes		Seconds	
29. Primary SIC C	ode (4 digi	ts) 30.	Secondary SI	C Code (4 digits)	31. P (5 or 6	rimary I	NAICS	Code	32. Se (5 or 6	econdary NA	ICS Code	
9111					000	To fo						
33. What is the Pri	imary Bu	siness of t	this entity?	(Do not repeat the SI	C or NAICS	description	.)					
Municipal stor	m sewe	er systen	n	12		11.17	700					
					1505	Precin	ct Line	Rd				
34. Mailing												
Address:		City Hurst		State	State TX		ZIP 76054		76054	ZIP + 4		
35, E-Mail A	ddress:	O.L.y	Harot	Olato		hengst@		tx gov	1000			
		e Number		37. Exter	nsion or C		<u></u>		8. Fax Num	ber (if applie	able)	
	(718)78								() -	Content (other 🗸)	
D. TCEQ Programs					ermits/regis	tration nu	umbers	that will be	e affected by	the updates su	bmitted on this	
☐ Dam Safety	T .	Districts		☐ Edwards Aq	uifer		Emissio	ns Invento	ory Air	☐ Industrial H	azardous Waste	
									22			
☐ Municipal Solid V	Vaste	New Sou	ırce Review Air	OSSF		☐ Petroleum Storage Tank			e Tank	PWS		
Sludge		Storm W	ater	☐ Title V Air			Tires			Used Oil		
☐ Voluntary Cleanu	ıp qı	Waste W	/ater	☐ Wastewater Agriculture		☐ Water Rights				Other:		
ECTION IV:	Prepa	arer Inf	formation	8					ė,			
saute Tax	ne Hen			*		41. Title	e:	City E	ngineer			
2. Telephone Num		43. Ext./	Code 4	4. Fax Number		45. E-	Mail A	ddress				
817) 788-7076	5		() -		dhen	gst(a	hurstt	c.gov			
ECTION V:	Autho	orized S	Signature	70								
6. By my signature gnature authority to lentified in field 39.	below, I c	ertify, to th	ne best of my k									
Company:	City of Hu	rst			Job T	itle:	City N	Manager				
A TOTAL CONTRACTOR OF THE PROPERTY OF THE PROP	Clay Caru	1000				10 10 FE		Pho	one:	817) 788-70	27	

TCEQ-10400 (04/15) Page 2 of 2

Date:

APPENDIX C: Measurable Goals And Actions for BMPs

BMPs	Department Reporting:	Measurable Goal 2019	Measurable Goals 2020	Measurable Goals 2021	Measurable Goals 2022	Measurable Goals 2023
MCM 1.0 Public Edu	cation, Outreacl	and Involvement				
1.1 NCTCOG Storm Water Public Education Task Force	Public Works Engineering and Operations	Action Attend and stay informed of Task Force meetings Tailor regional initiatives and implement locally to educate the public. Documented Activities List of meetings attended as of December 31st	Action Attend and stay informed of Task Force meetings Tailor regional initiatives and implement locally to educate the public. Documented Activities List of meetings attended as of December 31st	Action Attend and stay informed of Task Force meetings Tailor regional initiatives and implement locally to educate the public. Documented Activities List of meetings attended as of December 31st	Action Attend and stay informed of Task Force meetings Tailor regional initiatives and implement locally to educate the public. Documented Activities List of meetings attended as of December 31st	Action Attend and stay informed of Task Force meetings Tailor regional initiatives and implement locally to educate the public. Documented Activities List of meetings attended as of December 31st
1.2 NCTCOG Cooperative Purchase and Outreach	Public Works Operations and BINSs	Action Participate in the Cooperative Purchase and develop outreach activities that will inform the public. Documented Activities List of items purchased and # of events attended with outreach items as of December 31st	Action Participate in the Cooperative Purchase and develop outreach activities that will inform the public. Documented Activities List of items purchased and # of events attended with outreach items as of December 31st	Action Participate in the Cooperative Purchase and develop outreach activities that will inform the public. Documented Activities List of items purchased and # of events attended with outreach items as of December 31st	Action Participate in the Cooperative Purchase and develop outreach activities that will inform the public. Documented Activities List of items purchased and # of events attended with outreach items as of December 31st	Action Participate in the Cooperative Purchase and develop outreach activities that will inform the public. Documented Activities List of items purchased and # of events attended with outreach items as of December 31st
1.3 Utility Bill Inserts	Public Works Operations; Utility Billing	Action Publicize Good Neighbor Events Documented Activities # of inserts mailed by December 31st	Action Publicize Good Neighbor Events Documented Activities # of inserts mailed by December 31st	Action Publicize Good Neighbor Events Documented Activities # of inserts mailed by December 31st	Action Publicize Good Neighbor Events Documented Activities # of inserts mailed by December 31st	Action Publicize Good Neighbor Events Documented Activities # of inserts mailed by December 31st
1.4 Educational Storm Water webpage for all ages	Public Works Engineering	Action Create and update webpage Documented Activities Create and publish web page by December 31st	Action Monitor and update webpage. Publicize website at community events and at the library. Documented Activities # of events & publications promoting website as of December 31st	Action Monitor and update webpage. Publicize website at community events and at the library. Documented Activities # of events & publications promoting website as of December 31st	Action Monitor and update webpage. Publicize website at community events and at the library. Documented Activities # of events or publications promoting website as of December 31st	Action Monitor and update webpage. Publicize website at community events and at the library. Documented Activities # of events or publications promoting website as of December 31st

BMPs	Department Reporting:	Measurable Goal 2019	Measurable Goals 2020	Measurable Goals 2021	Measurable Goals 2022	Measurable Goals 2023
MCM 1.0 Public Edu	cation, Outreach	and Involvement (CON	ITINUED)			
1.5	Public Works	Action Mark all storm				
Storm Drain Markings	Streets	drains, inspect and replace				
	&Drainage	as needed.				
		Documented Activities				
		Number of inlets inspected				
		and new markers installed				
		by December 31st				
1.6	Parks	Action Maintain priority				
Adopt a Park	Department	list of parks and streams				
		that need cleaned. Assign				
		cleanup sites to				
		community groups and				
		volunteers calling in to				
		Volunteers in Action				
		Documented Activities				
		Number of sites or streams				
		cleaned by December 31st				
1.7	Public Works	Action Maintain recorded				
Storm Drain Hotline	Operations	call in line with current				
		information available 24				
		hours/day. Publicize				
		number on website and at				
		public education events.				
		Documented Activities				
		Phone line available to				
		public 24 hrs./day and				
		number of events number				
		is publicized at yearly as of				
		December 31st				
1.8	Public Works	Action One presentation				
Annual Storm Water	Engineering	to City Council on the				
Management Program		SWMP progress				
Presentation at City		Documented Activities				
Council Meeting		Month and date				
		presenting to Council; # of				
		meetings as of December				
		31st	31st	31st	31st	31st

BMPs	Department Reporting:	Measurable Goals 2019	Measurable Goals 2020	Measurable Goals 2021	Measurable Goals 2022	Measurable Goals 2023
MCM 2.0 Illicit Disch	narge Detection (and Elimination				
2.1 Storm Drain System Mapping	Public Works Engineering and GIS	Action Maintain and update GIS layer with Storm Sewer system Documented Activities Number of update as of December 31st	Action Maintain and update GIS layer with Storm Sewer system Documented Activities Number of update as of December 31st	Action Maintain and update GIS layer with Storm Sewer system Documented Activities Number of update as of December 31st	Action Maintain and update GIS layer with Storm Sewer system Documented Activities Number of update as of December 31st	Action Maintain and update GIS layer with Storm Sewer system Documented Activities Number of update as of December 31st
2.2 Dry Weather Screening	Public Works Operations	Action Walk accessible reaches of one branch using regionally accepted practices (IDDE Field Investigation Guide) Documented Activities Name of branch screened as of December 31st	Action Walk accessible reaches of one branch using regionally accepted practices (IDDE Field Investigation Guide) Documented Activities Name of branch screened as of December 31st	Action Walk accessible reaches of one branch using regionally accepted practices (IDDE Field Investigation Guide) Documented Activities Name of branch screened as of December 31st	Action Walk accessible reaches of one branch using regionally accepted practices (IDDE Field Investigation Guide) Documented Activities Name of branch screened as of December 31st	Action Walk accessible reaches of one branch using regionally accepted practices (IDDE Field Investigation Guide) Documented Activities Name of branch screened as of December 31st
2.3 Illicit Discharge Detection and Elimination Ordinance	Public Works and BINS	Action Implement Illicit Discharge Ordinance Documented Activities List of enforcement actions as of December 31st	Action Implement Illicit Discharge Ordinance Documented Activities List of enforcement actions as of December 31st	Action Implement Illicit Discharge Ordinance Documented Activities List of enforcement actions as of December 31st	Action Implement Illicit Discharge Ordinance Documented Activities List of enforcement actions as of December 31st	Action Implement Illicit Discharge Ordinance Documented Activities List of enforcement actions as of December 31st
2.4 Illicit Discharge Investigations	Public Works Engineering and Operations and BINS	Action As needed conduct investigations Documented Activities List of investigation types and locations as of December 31st	Action As needed conduct investigations Documented Activities List of investigation types and locations as of December 31st	Action As needed conduct investigations Documented Activities List of investigation types and locations as of December 31st	Action As needed conduct investigations Documented Activities List of investigation types and locations as of December 31st	Action As needed conduct investigations Documented Activities List of investigation types and locations as of December 31st
2.5 Reduce Illegal Dumping	Public Works and BINS and Code Enforcement	Action Continue to publicize Good Neighbor events and Regional waste disposal partnerships Investigate illegal dumping reports Documented Activities One good neighbor event per year by December 31st # of outreach events publicizing waste disposal options as of December 31st	Action Continue to publicize Good Neighbor events and Regional waste disposal partnerships Investigate illegal dumping reports Documented Activities One good neighbor event per year by December 31st # of outreach events publicizing waste disposal options as of December 31st	Action Continue to publicize Good Neighbor events and Regional waste disposal partnerships Investigate illegal dumping reports Documented Activities One good neighbor event per year by December 31st # of outreach events publicizing waste disposal options as of December 31st	Action Continue to publicize Good Neighbor events and Regional waste disposal partnerships Investigate illegal dumping reports Documented Activities One good neighbor event per year by December 31st # of outreach events publicizing waste disposal options as of December 31st	Action Continue to publicize Good Neighbor events and Regional waste disposal partnerships Investigate illegal dumping reports Documented Activities One good neighbor event per year by December 31st # of outreach events publicizing waste disposal options as of December 31st

BMPs	Department Reporting:	Measurable Goals 2019	Measurable Goals 2020	Measurable Goals 2021	Measurable Goals 2022	Measurable Goals 2023
MCM 2.0 Illicit Disch	narge Detection (and Elimination (CONTIN	NUED)			
2.6 Reduce Sanitary Sewer Overflows	Public Works Engineering and Operations and Water & Wastewater and BINS	Action Cleaning and preventative maintenance of existing sanitary sewer system Documented Activities Clean minimum of 70 miles per year and list # of demolition inspections as of December 31st	Action Cleaning and preventative maintenance of existing sanitary sewer system Documented Activities Clean minimum of 70 miles per year and list # of demolition inspections as of December 31st	Action Cleaning and preventative maintenance of existing sanitary sewer system Documented Activities Clean minimum of 70 miles per year and list # of demolition inspections as of December 31st	Action Cleaning and preventative maintenance of existing sanitary sewer system Documented Activities Clean minimum of 70 miles per year and list # of demolition inspections as of December 31st	Action Cleaning and preventative maintenance of existing sanitary sewer system Documented Activities Clean minimum of 70 miles per year and list # of demolition inspections as of December 31st
2.7 Pet Waste Reduction	Parks Department and BINS and Animal Control	Action Provide Pet Waste Depots in parks. Documented Activities Number of bags restocked as of December 31st	Action Provide Pet Waste Depots in parks. Documented Activities Number of bags restocked as of December 31st	Action Provide Pet Waste Depots in parks. Documented Activities Number of bags restocked as of December 31st	Action Provide Pet Waste Depots in parks. Documented Activities Number of bags restocked as of December 31st	Action Provide Pet Waste Depots in parks. Documented Activities Number of bags restocked as of December 31st
2.8 Household Hazardous Waste (HHW) Disposal	Public Works and BINS	Action Provide cost share to participate in Fort Worth's HHW center and advertise proper procedures for disposal of HHW at public events Documented Activities Proof of agreement and Copy of outreach materials	Action Provide cost share to participate in Fort Worth's HHW center and advertise proper procedures for disposal of HHW at public events Documented Activities Proof of agreement and Copy of outreach materials	Action Provide cost share to participate in Fort Worth's HHW center and advertise proper procedures for disposal of HHW at public events Documented Activities Proof of agreement and Copy of outreach materials	Action Provide cost share to participate in Fort Worth's HHW center and advertise proper procedures for disposal of HHW at public events Documented Activities Proof of agreement and Copy of outreach materials	Action Provide cost share to participate in Fort Worth's HHW center and advertise proper procedures for disposal of HHW at public events Documented Activities Proof of agreement and Copy of outreach materials
2.9 NCTCOG, Illicit Discharge Detection Elimination (IDDE) Task Force	Public Works	Action Attend and stay informed of Task Force Meetings Documented Activities # of meeting attended as of December 31st	Action Attend and stay informed of Task Force Meetings Documented Activities # of meeting attended as of December 31st	Action Attend and stay informed of Task Force Meetings Documented Activities # of meeting attended as of December 31st	Action Attend and stay informed of Task Force Meetings Documented Activities # of meeting attended as of December 31st	Action Attend and stay informed of Task Force Meetings Documented Activities # of meeting attended as of December 31st
2.10 On-Site Illicit Discharge and Spill Procedures	Public Works Engineering, Streets & Drainage, Operations BINS, Water & Wastewater Parks Department.	Action Maintain standard operating procedures for responding to on-site illicit discharges and spills Documented Activities Procedures maintained & updated as needed.	Action Maintain standard operating procedures for responding to on-site illicit discharges and spills Documented Activities Procedures maintained & updated as needed.	Action Maintain standard operating procedures for responding to on-site illicit discharges and spills Documented Activities Procedures maintained & updated as needed.	Action Maintain standard operating procedures for responding to on-site illicit discharges and spills Documented Activities Procedures maintained & updated as needed.	Action Maintain standard operating procedures for responding to on-site illicit discharges and spills Documented Activities Procedures maintained & updated as needed.

BMPs	Department	Measurable Goals	Measurable Goals	Measurable Goals	Measurable Goals	Measurable Goals			
DIVIPS	Reporting:	2019	2020	2021	2022	2023			
MCM #3 Construction Site Storm Water Runoff Control									
3.1 Erosion Control Site Plan Review	Public Works Engineering; BINS	Action Review E&S plans as required by iSWM, TPDES CGP TXR150000, and development regulations. Documented Activities # of plans reviewed as of December 31st	Action Review E&S plans as required by iSWM, TPDES CGP TX150000, and development regulations. Documented Activities # of plans reviewed as of December 31st	Action Review E&S plans as required by iSWM, TPDES CGP TX150000, and development regulations. Documented Activities # of plans reviewed as of December 31st	Action Review E&S plans as required by iSWM, TPDES CGP TX150000, and development regulations. Documented Activities # of plans reviewed as of December 31st	Action Review E&S plans as required by iSWM, TPDES CGP TX150000, and development regulations. Documented Activities # of plans reviewed as of December 31st			
3.2 Pre-Construction Meeting Discussion	Public Works and BINS and Community Development	Action Continue pre- construction meetings with applicants Documented Activities # of pre-construction meetings completed as of December 31st	Action Continue pre- construction meetings with applicants Documented Activities # of pre-construction meetings completed as of December 31st	Action Continue pre- construction meetings with applicants Documented Activities # of pre-construction meetings completed as of December 31st	Action Continue pre- construction meetings with applicants Documented Activities # of pre-construction meetings completed as of December 31st	Action Continue pre- construction meetings with applicants Documented Activities # of pre-construction meetings completed as of December 31st			
3.3 Implementation of iSWM for Construction Storm Water Management	Public Works and BINS and Community Development	Action Continue site plan review and inspections using iSWM Design Manual for Construction Documented Activities # of plans reviewed as of December 31st	Action Continue site plan review and inspections using iSWM Design Manual for Construction Documented Activities # of plans reviewed as of December 31st	Action Continue site plan review and inspections using iSWM Design Manual for Construction Documented Activities # of plans reviewed as of December 31st	Action Continue site plan review and inspections using iSWM Design Manual for Construction Documented Activities # of plans reviewed as of December 31st	Action Continue site plan review and inspections using iSWM Design Manual for Construction Documented Activities # of plans reviewed as of December 31st			

BMPs	Department Reporting:	Measurable Goal 2019	Measurable Goals 2020	Measurable Goals 2021	Measurable Goals 2022	Measurable Goals 2023		
MCM #4 Post-Const	MCM #4 Post-Construction Storm Water Management in New Development and Redevelopment							
4.1 iSWM Implementation for Post Construction Storm Water Management in New and Redevelopment	Public Works Engineering	Action Continue to conduct development review and inspections Documented Activities List of reviews & inspections	Action Continue to conduct development review and inspections Documented Activities List of reviews & inspections	Action Continue to conduct development review and inspections Documented Activities List of reviews & inspections	Action Continue to conduct development review and inspections Documented Activities List of reviews & inspections	Action Continue to conduct development review and inspections Documented Activities List of reviews & inspections		
4.2 Channel & Inlet Maintenance and Inspection	Public Works Engineering; Pubic Works Streets and Drainage; GIS	Action Continue existing channel maintenance and inlet inspection/cleaning program Documented Activities List and/or map of maintenance locations and dates as of December 31st	Action Continue existing channel maintenance and inlet inspection/cleaning program Documented Activities List and/or map of maintenance locations and dates as of December 31st	Action Continue existing channel maintenance and inlet inspection/cleaning program Documented Activities List and/or map of maintenance locations and dates as of December 31st	Action Continue existing channel maintenance and inlet inspection/cleaning program Documented Activities List and/or map of maintenance locations and dates as of December 31st	Action Continue existing channel maintenance and inlet inspection/cleaning program Documented Activities List and/or map of maintenance locations and dates as of December 31st		
4.3 Document and Maintain Records of Enforcement Actions	Public Works	Action A log of enforcement actions will be developed. Documented Activities The log will be developed by December 31st	Action A log of enforcement actions will be maintained with the date, location, and details regarding the action. Documented Activities All enforcement Actions will be included in the log by December 31st	Action A log of enforcement actions will be maintained with the date, location, and details regarding the action. Documented Activities All enforcement Actions will be included in the by December 31st	Action A log of enforcement actions will be maintained with the date, location, and details regarding the action. Documented Activities All enforcement Actions will be included in the log. by December 31st	Action A log of enforcement actions will be maintained with the date, location, and details regarding the action. Documented Activities All enforcement Actions will be included in the log. by December 31st		
4.4 Long-Term Maintenance Program	Public Works	Action Continue to require that a long-term Operations and Maintenance Plan be developed for per the iSWM Ordinance. Documented Activities Maintenance Agreements specifying Operations and Maintenance Plans for permanent BMPs developed and part of public record.	Action Continue to require that a long-term Operations and Maintenance Plan be developed for per the iSWM Ordinance. Documented Activities Maintenance Agreements specifying Operations and Maintenance Plans for permanent BMPs developed and part of public record.	Action Continue to require that a long-term Operations and Maintenance Plan be developed for per the iSWM Ordinance. Documented Activities Maintenance Agreements specifying Operations and Maintenance Plans for permanent BMPs developed and part of public record.	Action Continue to require that a long-term Operations and Maintenance Plan be developed for per the iSWM Ordinance. Documented Activities Maintenance Agreements specifying Operations and Maintenance Plans for permanent BMPs developed and part of public record.	Action Continue to require that a long-term Operations and Maintenance Plan be developed for per the iSWM Ordinance. Documented Activities Maintenance Agreements specifying Operations and Maintenance Plans for permanent BMPs developed and part of public record.		

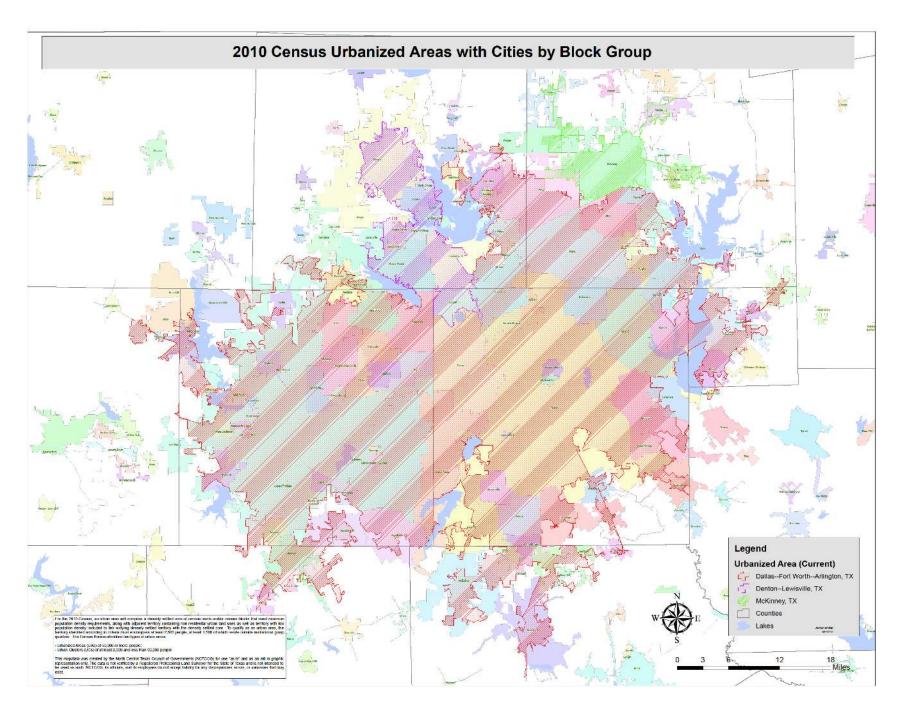
BMPs	Department	Measurable Goal	Measurable Goals	Measurable Goals	Measurable Goals	Measurable Goals		
2,,,,,,	Reporting:	2019	2020	2021	2022	2023		
MCM #5 Pollution Prevention and Good Housekeeping in Municipal Operations								
5.1	Public Works	Action Designated	Action Designated	Action Designated	Action Designated	Action Designated		
NCTCOG Pollution	Operations	employees given						
Prevention Training		opportunity to view						
		municipal employee						
		training series about						
		preventing storm water						
		pollution	pollution	pollution	pollution	pollution		
		Training videos available						
		for all employees on						
		employee website for all						
		employees to access						
		Documented Activities						
		List of employees that						
		attend training as of						
		December 31st						
5.2	Public Works	Action Attend and stay						
NCTCOG Pollution		informed of Task Force						
Prevention Task Force		Meetings	Meetings	Meetings	Meetings	Meetings		
		Documented Activities						
		# of meetings attended as						
		of December 31st						
5.3	Public Works	Action Continue existing						
Roadway Cleaning	Streets &	street sweeping program						
	Drainage	Documented Activities						
		# of times all streets swept						
		as of December 31st						
5.4	Fleet Services	Action	Action	Action	Action	Action		
Vehicle Maintenance		Checklist completed for						
		each repair.						
		Spill cleanup supplies						
		labeled and accessible.						
		Documented Activities						
		% of checklists completed						
		for repairs <u>and</u>						
		# of replacement clean up						
		supplies ordered						
		as of December 31st						

BMPs	Department	Measurable Goal	Measurable Goals	Measurable Goals	Measurable Goals	Measurable Goals	
	Reporting:	2019	2020	2021	2022	2023	
MCM #5 Pollution Prevention and Good Housekeeping in Municipal Operations(CONTINUED)							
5.5 Vehicle Washing	Public Works Water& Wastewater	Action Maintain grit trap Documented Activities # of times grit traps cleaned by December 31st	Action Maintain grit trap Documented Activities # of times grit traps cleaned by December 31st	Action Maintain grit trap Documented Activities # of times grit traps cleaned by December 31st	Action Maintain grit trap Documented Activities # of times grit traps cleaned by December 31st	Action Maintain grit trap Documented Activities # of times grit traps cleaned by December 31st	
5.6 Vehicle Fueling	Fleet Services	Action Maintain UST leak detection system Documented Activities UST System report for year Jan to December 31st	Action Maintain UST leak detection system Documented Activities UST System report for year Jan to December 31st	Action Maintain UST leak detection system Documented Activities UST System report for year Jan to December 31st	Action Maintain UST leak detection system Documented Activities UST System report for year Jan to December 31st	Action Maintain UST leak detection system Documented Activities UST System report for year Jan to December 31st	
5.7 Develop Pollution Prevention for City Operation and Maintenance (O&M) Activities	Public Works Operations; Parks Department; Fleet Services	Action Maintain current Pollution Prevention practices. Documented Activities Provide City employees with information on Pollution Prevention activities by December 31st	Action Maintain current Pollution Prevention practices. Documented Activities Provide City employees with information on Pollution Prevention activities by December 31s	Action Determine City O&M activities that have potential to discharge pollutants into the MS4 Documented Activities List of possible pollutants of concern from O&M activities by December 31st	Action Develop and implement pollution prevention measures for the O&M activities. Documented Activities Annual Inspections Checklist developed by December 31st	Action Annually inspect pollution prevention measures using Checklist Documented Activities Complete and update Annual Inspection Checklist and as to reflect BMPs in O&M	
5.8 Purchase/Use Dechlorination Equipment	Public Works Water & Wastewater	Action Use dechlorination equipment as needed Documented Activities List of uses and dates for entire year January to December 31st	Action Use dechlorination equipment as needed Documented Activities List of uses and dates for entire year January to December 31st	Action Use dechlorination equipment as needed Documented Activities List of uses and dates for entire year January to December 31st	Action Use dechlorination equipment as needed Documented Activities List of uses and dates for entire year January to December 31st	Action Use dechlorination equipment as needed Documented Activities List of uses and dates for entire year January to December 31st	
5.9 Licensed Applicators Pesticides and Fertilizers	Parks Department; Public Works	Action Require proof of current license Documented Activities List of applicators used and verification of current license obtained for entire year January to December 31st	Action Require proof of current license Documented Activities List of applicators used and verification of current license obtained for entire year January to December 31st	Action Require proof of current license Documented Activities List of applicators used and verification of current license obtained for entire year January to December 31st	Action Require proof of current license Documented Activities List of applicators used and verification of current license obtained for entire year January to December 31st	Action Require proof of current license Documented Activities List of applicators used and verification of current license obtained for entire year January to December 31st	

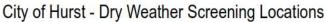
BMPs	Department Reporting:	Measurable Goal 2019	Measurable Goals 2020	Measurable Goals 2021	Measurable Goals 2022	Measurable Goals 2023		
MCM #5 Pollution P	MCM #5 Pollution Prevention and Good Housekeeping in Municipal Operations(CONTINUED)							
5.10 Inventory municipal facilities and stormwater controls, owned and operated by the City within the MS4	Public Works Streets and Drainage Operations; Parks Dept.	Action Identify locations of City owned and operated facilities and stormwater controls Documented Activities List of facilities by December 31st 2020.	Action Map locations of City owned facilities and stormwater controls Documented Activities Map of locations in GIS by December 31st 2020.	Action Maintain map of locations of City owned facilities and stormwater controls Documented Activities Provide Map of City owned facilities and stormwater controls	Action Maintain map of locations of City owned facilities and stormwater controls Documented Activities Provide Map of City owned facilities and stormwater controls	Maintain map of locations of City owned facilities and stormwater controls Documented Activities Provide Map of City owned facilities and stormwater controls		
5.11 Inspection and Maintenance of City owned Structural Controls	Public Works Streets and Drainage Operations	Action Develop Inventory listing of City Owned Structural Controls Documented Activities Inventory list of City Owned Structural Controls by June 30 th 2020.	Action Annually inspect structural controls and maintain each as needed to ensure effectiveness Documented Activities Log of Inspections and maintenance	Action Annually inspect structural controls and maintain as needed to ensure effectiveness Documented Activities Log of Inspections and maintenance	Action Annually inspect structural controls and maintain as needed to ensure effectiveness Documented Activities Log of Inspections and maintenance	Action Annually inspect structural controls and maintain as needed to ensure effectiveness Documented Activities Log of Inspections and maintenance		

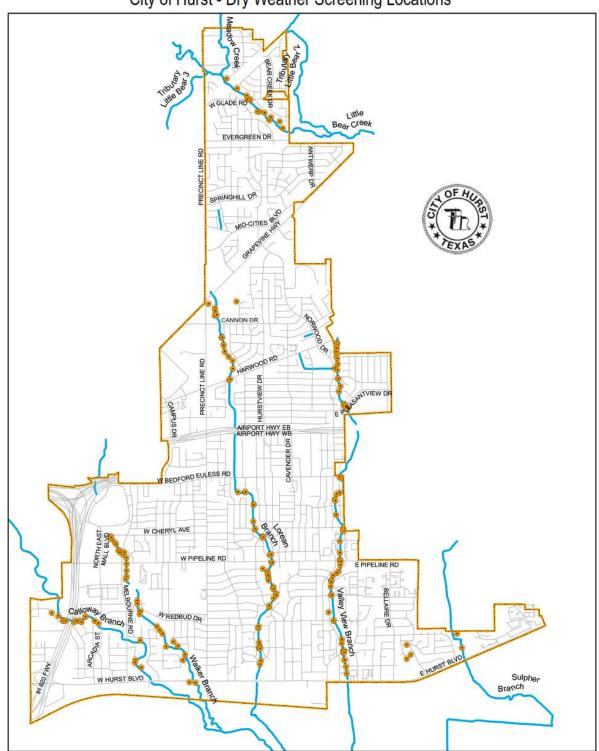
APPENDIX D:

Urbanized Area Map



APPENDIX E: Map Identifying City of Hurst Outfalls





Document Path: V:\GIS_Requests\Operations\Storm\SWMP_Letter.mxd

APPENDIX F:

Permit Fee Payment Voucher

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number: 425140

Trace Number: 582EA000351469

Date: 07/09/2019 03:26 PM

Payment Method: CC - Authorization 0000000412

Amount: \$400.00

Fee Type: GENERAL PERMIT WATER DISCHARGE APPLICATION

ePay Actor: Duane Hengsrt
Actor Email: dhengst@hursttx.gov
IP: 97.75.112.196

Payment Contact Information

Name: Duane Hengst Company: City Of Hurst

Address: 1505 Precinct Line Rd, Hurst, TX 76054

Phone: 817-788-7080

-Site Information-

Site Name: CITY OF HURST

Site Address: 1505 PRECINCT LINE RD, HURST, TX 76054 Site Location: 1505 PRECINCT LINE RD HURST TX 76054

Customer Information

Customer Name: CITY OF HURST

Customer Address: 1505 PRECINCT LINE RD, HURST, TX 76054



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